

# BULKY DOCUMENTS

(exceeds 300 pages)

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Part \_\_\_\_ of \_\_\_\_

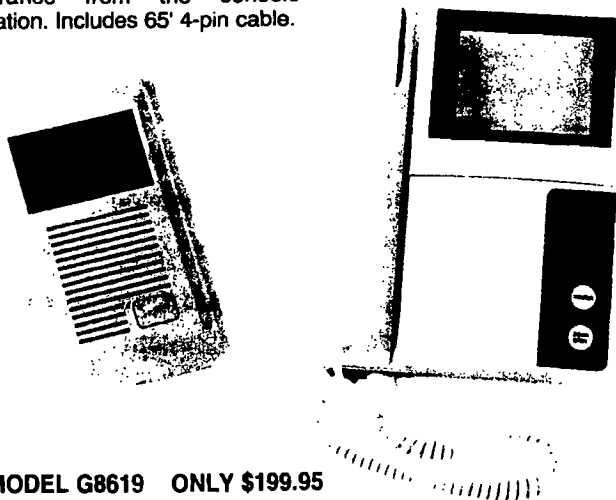
## HOME SECURITY



**SEE WHO  
IS AT THE  
FRONT DOOR!**

### VIDEO DOOR PHONE WITH 65' CABLE

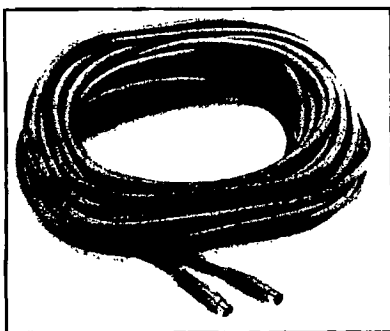
Screen solicitors and protect your family from unwanted visitors the high-tech way. The compact, two-way intercom system features a high-power infrared LED camera and bright, 4" black-and-white picture screen for maximum security in regular and low-light conditions. A built-in electric door opener enables the user to allow entrance from the console location. Includes 65' 4-pin cable.



**MODEL G8619 ONLY \$199.95**

### EXTRA 65' OF CABLE

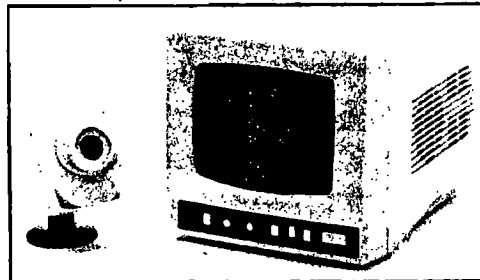
Heavy-duty 6-pin cable makes it possible to double the distance between your monitor and remote camera. Includes audio, video, power and grounding connections.



**MODEL G8680 ONLY \$16.95**

### SECURITY CAMERA WITH 5" MONITOR

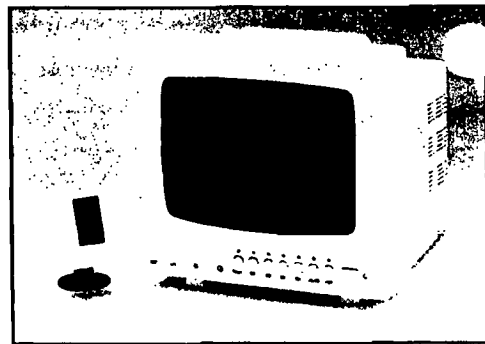
Easy-to-install security monitor with high-resolution black and white video and two-way audio is ideal for lobbies, kids' play areas, workshops or other areas where safety and security are essential. Wide-angle F1.6 camera provides 90° view in light as low as 1.0 lux. Two-channel monitor allows use with one additional camera. VCR outputs and 65' 6-pin cable included.



**MODEL G8616 ONLY \$159.95**

### SECURITY CAMERA WITH 10" MONITOR

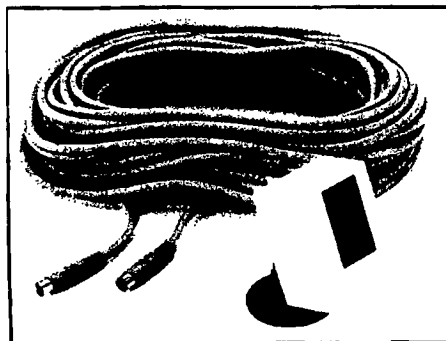
A bright, 10" monochrome screen with four camera inputs and sequential switching makes it easy to keep an eye on playgrounds, parking areas, patios or any other locations where safety or security are at risk. Combined with its highly sensitive, waterproof infrared LED camera, this system provides superior indoor or outdoor viewing in normal or low-light conditions to 0.1 lux. Two-way audio and VCR capabilities provide added security. 65' 6-pin cable included.



**MODEL G8617 ONLY \$199.95**

### EXTRA CAMERA WITH 65' OF CABLE

Waterproof, wide-angle LED camera with two-way audio capability can be added to your security system for multi-position viewing. Fixed-focus 3.8mm infrared lens provides a detailed image in light as low as 0.1 lux. Includes a 65', 6-pin cable for convenient installation.



**MODEL G8618 ONLY \$99.95**

# HOME SECURITY

HOME  
SECURITY

## ELECTRONIC SAFE

A easy-to-use electronic keypad provides a secure barrier between your valuables and the bad guys. Perfect for in-wall or surface mounting, this rugged vault features pre-drilled holes for easy installation. This 15"W x 7"D x 11 1/4"H safe is powered by six "C" batteries, so power failures will not affect its security. A separate electronic override key box is included for added safety. Internal dimensions are 14 1/2"W x 6 1/4"D x 11 1/4"H.

MODEL G8696 ONLY \$79.95

## DATA SAFE

In the "Electronic Age", data has become one of the most important valuables we have. Why not give it the same protection you would provide for jewelry and other precious items? This 17 3/4"W x 18"D x 21 1/4"H safe is heavily insulated and constructed to provide the utmost protection for floppies, CD-Roms and other standard electronic file formats. Internal dimensions measure 8 3/4"W x 7 3/4"D x 12 1/2"H.

MODEL G8698 ONLY \$179.95

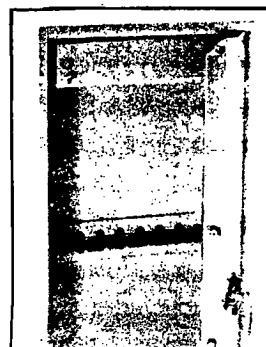
## SAFE WITH COMBINATION AND KEYS

Safe protection for your valuables doesn't have to be expensive! This 9 1/2"W x 7 1/4"D x 11"H safe features both a 3-number combination lock and a keyed-entry, so you can enjoy both security and convenience. Pre-drilled mounting holes make in-wall or surface attachment simple and secure. A built-in shelf provides added storage options. Contractors: you won't find a less expensive residential add-on that will attract more buyer appeal. Internal dimensions are 9"W x 6 1/4"D x 10 1/2"H.

MODEL G8697 ONLY \$49.95

## GUN SAFES

Protect your prized firearms from theft and protect curious loved ones from harm at the same time. These heavy steel Gun Safes feature multiple 3/4" steel door bolt security, keyed access, hand gun and ammo compartments and permanent mounting holes through the backs. G9929 measures 57 1/4" tall x 13 3/4" wide x 13 1/2" deep overall and holds five rifles.



MODEL G9929 5 Gun Safe ONLY \$145.00  
MODEL G9930 10 Gun Safe ONLY \$225.00

G9930 measures 64 1/4" tall x 26 3/4" wide x 13 3/4" deep overall, holds 10 rifles and has key/dial combination access.

## COMBINATION/KEY FLOOR SAFES

### BIG! - 154 LB. SAFE

Never give a thief an even break! Protect your valuables in this rugged 14 1/2"W x 14 1/2"D x 23 1/4"H floor safe. Secured by a tough four-number combination lock and stout, hardened steel bolts, this hefty vault also includes a keyed entry lock for added convenience. Thick steel walls and tamper-free hinges add to this safe's secure construction. Mounted on steel wheels. Internal dimensions are 14"W x 11 1/4"D x 19 1/2"H (6 5/8"W x 6 1/4"D x 2 3/4"H locking drawer).

MODEL G8700 ONLY \$149.95

### BIGGER!! - 209 LB. SAFE

Weighing in at a husky 209 lbs., this floor safe is more than ample discouragement for would-be thieves. This combination dial and key-locked 17 1/4"W x 19"D x 29 1/2"H safe provides an exceptional amount of space for documents, jewelry, firearms, cash and other valuables. Hardened steel bolts and oversized steel construction ensure that your property will be well protected. Safe measures 17 1/4"W x 16 1/4"D x 25 1/2"H inside (8 3/4"W x 11"D x 2 3/4"H locking drawer). Includes steel wheels for easy positioning.

MODEL G8701 ONLY \$199.95

### BIGGEST!!! - 242 LB. SAFE

Weighing in at nearly 250 lbs. this massive floor safe is a top choice for valuables. Measuring 19"W x 20"D x 34"H on the outside and 18 1/2"W x 16"D x 30"H on the inside, this safe features a commercial-quality, 4-number combination dial and an auxiliary keyed lockset. There is also a 11 1/4"W x 11"D x 2 3/4"H locking drawer inside. Internally equipped with five extra-hefty hardened locking bolts. On steel wheels.



MODEL G8702 ONLY \$249.95

CALL 24 HOURS A DAY FROM ANYWHERE IN THE U.S.A. 1-800-523-4777

245

## FINISHING

### MASTER'S BLEND TUNG OIL - 100% PURE

This 100% pure Tung Oil produces a tough, hard surface which is absolutely waterproof, abrasion resistant and non-toxic. Recognized for centuries as the finest of oil finishes, Tung Oil penetrates wood fibers and will not yellow as other finishes do. Its matte finish emphasizes the grain and color of the wood. Master's Blend Tung Oil - 100% Pure may be used in its non-toxic state directly from the container, or it may be blended with thinner to speed drying time. (32 oz.)



MODEL G9162 ONLY \$16<sup>95</sup>

### 4-PC. PAINT SCRAPER/PUTTY KNIFE SET

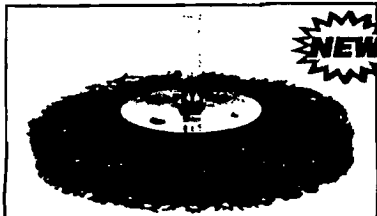
Apply putty, plaster, spackle - or remove old paint and caulking from wood, metal and other flat surfaces with this quality 4-piece set of medium-stiffness knives. Through-handle shanks, combined with tough thermo-plastic grips provide plenty of strength and durability. Knife widths measure 3/4", 1 1/8", 2" and 2 1/4".



MODEL G8214 ONLY \$5<sup>95</sup>

### FACE-OFF STRIPPERS

Clean rust, paint and graffiti without damage with these silicon carbide grit wheels. Made of strong nylon mesh for long life and no-clogging, they're resistant to water and moisture. Use with electric drills. 1/4" shank.



MODEL H2137 4" ONLY \$4<sup>95</sup>  
MODEL H2138 5" ONLY \$6<sup>95</sup>

### PRESERVE™ WOODWORKER'S CREAM

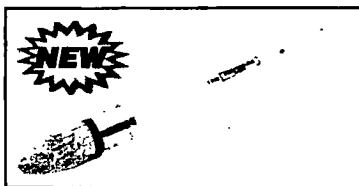
This easy-to-apply blend of beeswax, carnauba wax and Preserve™ nut oils provides a durable non-toxic finish containing drying oils to penetrate wood fibers and wax to form a protective sheen. This solvent free and all natural product with a honey and nut scent is safe for butcher blocks and salad bowls, yet durable enough for furniture. Easily applied with a soft cloth to bare wood. Buffs to a water repellent luster. (8 oz.)



MODEL G9161 ONLY \$10<sup>95</sup>

### ROUND TAPERED BRUSHES

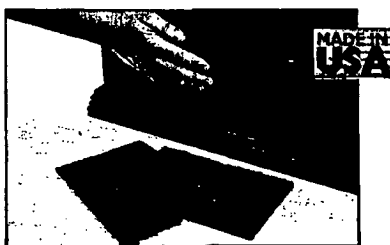
These European style, French made pig bristle brushes are hand shaped to a tapered point, giving them unparalleled control when cutting-in and reaching tight areas. Once you try one, you won't go back.



MODEL H1469 7/16" Dia. ONLY \$5<sup>45</sup>  
MODEL H1470 5/8" Dia. ONLY \$5<sup>95</sup>  
MODEL H1471 7/8" Dia. ONLY \$7<sup>95</sup>  
MODEL H1472 1" Dia. ONLY \$8<sup>95</sup>  
MODEL H1473 1 1/4" Dia. ONLY \$12<sup>95</sup>

### SCUFF-RITE® PADS

Great for all sanding applications. Pads are made of non-woven synthetic fiber bonded with aluminum oxide (Green and Maroon) or silicon carbide (Gray). They won't rust, stain or shred and are washable for repeated use. Pads are also excellent for use with most solvents. Each pad is 6" x 9".



Green - 150 Grit  
MODEL G3015 Each ONLY \$1<sup>95</sup>  
MODEL H2323 20 Pack ONLY \$12<sup>95</sup>  
Maroon - 280 Grit  
MODEL G3017 Each ONLY \$1<sup>95</sup>  
MODEL H2324 20 Pack ONLY \$12<sup>95</sup>  
Gray - 400 Grit  
MODEL G3019 Each ONLY \$1<sup>95</sup>  
MODEL H2325 20 Pack ONLY \$12<sup>95</sup>

### PRESERVE™ WOODENWARE OIL



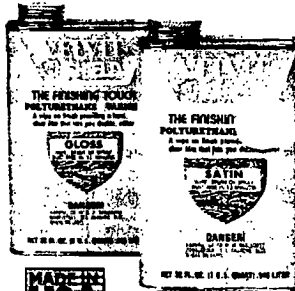
Non-toxic Preserve™ oil naturally protects and beautifies wood surfaces that come into contact with food items. Ideal for cutting boards, salad bowls, wooden utensils and wooden toys. Penetrates deeply. Golden tone enhances wood grain. (8 oz.)

MODEL G2892 ONLY \$7<sup>95</sup>

### POLYURETHANE VARNISH

Available in gloss and satin finish, these polyurethane varnishes provide a rich, durable surface for interior wood furniture, cabinets and bar tops. Resistant to water, alcohol, staining, many harsh chemicals and abrasion, they wipe on with a cloth and dry dust free.

Additional coats provide greater depth and luster. One quart container covers about 280 sq. ft.



MODEL G2590 Gloss ONLY \$11<sup>95</sup>  
MODEL G2591 Satin ONLY \$11<sup>95</sup>

### FINISHING OIL

Scientifically formulated Velvit Oil penetrates wood surfaces and hardens wood fibers in one step. Velvit Oil can be brought to a beautiful low-luster finish or just let it dry for the convenience of one-coat application. Velvit Oil can be repaired easily and can also be used as a polish. (16 oz.)



Natural  
MODEL G2592 ONLY \$5<sup>95</sup>  
Fruitwood  
MODEL G2593 ONLY \$6<sup>95</sup>  
Walnut  
MODEL G2594 ONLY \$6<sup>95</sup>





# HYDROCOTE®

## STAINS

Hydrocote® is an industry leader supplying non-toxic, non-flammable and environmentally safe stains and finishes that apply easily, look great and clean up with water.

Choose between two types of Hydrocote® stains; deep-penetrating transparent stains that offer superior color stability and clarity and Gel Wood Stains that apply easily with no lap marks. Either type will not raise the wood's grain and can be coated with any finish including solvent-based varnishes and polyurethanes. For country furniture or cabinets, Hydrocote's® White Pickling Stain can be mixed with universal tinting colorants for adding subtle color and can be brushed or sprayed for an authentic pickled finish.

**PENETRATING WOOD STAINS  
CAN BE USED WITH  
CAMPBELL'S HVLP'S ON PAGE 127**

### WHITE PICKLING STAIN

MODEL G6028 Stain, qt.	ONLY \$6 <sup>95</sup>
MODEL G6029 Stain, gal.	ONLY \$16 <sup>95</sup>

## FINISHES

Hydrocote® offers many protective finishes in a variety of choices. Polyshield™ provides exceptional durability both indoors and out and is UV-stabilized, non-yellowing and dries hard as nails. Fast-drying and durable Polyurethane for indoor applications can be brushed or sprayed and is ideal for floors and table tops. Hydrocote® Polyurethane also stands up to water spots and alcohol. Resisthane™ Plus provides a finish that rivals any traditional lacquer coating and sprays just like lacquer too. Finally, Hydrocote® Danish Oil provides the beauty of a hand-rubbed finish, applies easily, quickly and penetrates into the wood to beautify and protect. Best of all, Hydrocote® finishes are water based which means they clean up with water, are non-toxic, non-flammable and they're environmentally safe.

**CAN BE USED WITH  
CAMPBELL'S HVLP'S ON PAGE 127**

### RESISTHANE™ PLUS LACQUER

MODEL G5984 Gloss, gal.	ONLY \$19 <sup>95</sup>
MODEL G5985 Satin, gal.	ONLY \$19 <sup>95</sup>



### GEL WOOD STAIN

MODEL G6014 Oak, qt.	ONLY \$6 <sup>95</sup>
MODEL G6015 Oak, gal.	ONLY \$13 <sup>95</sup>
MODEL G6016 Red Mah, qt.	ONLY \$6 <sup>95</sup>
MODEL G6017 Red Mah, gal.	ONLY \$13 <sup>95</sup>
MODEL G6018 Dk Wal, qt.	ONLY \$6 <sup>95</sup>
MODEL G6019 Dk Wal, gal.	ONLY \$13 <sup>95</sup>
MODEL G6020 Cherry, qt.	ONLY \$6 <sup>95</sup>
MODEL G6021 Cherry, gal.	ONLY \$13 <sup>95</sup>
MODEL G6022 Maple, qt.	ONLY \$6 <sup>95</sup>
MODEL G6023 Maple, gal.	ONLY \$13 <sup>95</sup>
MODEL G6024 Prov Wal, qt.	ONLY \$6 <sup>95</sup>
MODEL G6025 Prov Wal, gal.	ONLY \$13 <sup>95</sup>
MODEL G6026 White, qt.	ONLY \$6 <sup>95</sup>
MODEL G6027 White, gal.	ONLY \$13 <sup>95</sup>
MODEL G8119 Natural, gal.	ONLY \$14 <sup>95</sup>

NOTE: The colors shown may vary slightly from actual colors due to color separation and printing process.

**FINISHING**

GOLDEN OAK	RED MAHOAGANY
CHERRY	DARK WALNUT
MAPLE	WHITE
PROV. WALNUT	

### PENETRATING WOOD STAINS

MODEL G6000 Oak, qt.	ONLY \$6 <sup>95</sup>
MODEL G6001 Oak, gal.	ONLY \$13 <sup>95</sup>
MODEL G6002 Red Mah, qt.	ONLY \$6 <sup>95</sup>
MODEL G6003 Red Mah, gal.	ONLY \$13 <sup>95</sup>
MODEL G6004 Dk Wal, qt.	ONLY \$6 <sup>95</sup>
MODEL G6005 Dk Wal, gal.	ONLY \$13 <sup>95</sup>
MODEL G6006 Cherry, qt.	ONLY \$6 <sup>95</sup>
MODEL G6007 Cherry, gal.	ONLY \$13 <sup>95</sup>
MODEL G6008 Maple, qt.	ONLY \$6 <sup>95</sup>
MODEL G6009 Maple, gal.	ONLY \$13 <sup>95</sup>
MODEL G6010 Prov Wal, qt.	ONLY \$6 <sup>95</sup>
MODEL G6011 Prov Wal, gal.	ONLY \$13 <sup>95</sup>
MODEL G6012 White, qt.	ONLY \$6 <sup>95</sup>
MODEL G6013 White, gal.	ONLY \$13 <sup>95</sup>



NOTE: The colors shown may vary slightly from actual colors due to color separation and printing process.

NATURAL
GOLDEN OAK
MED. WALNUT
COL. MAPLE
MAHOAGANY

### POLYSHIELD® SuperPoly

MODEL G5980 Gloss, qt.	ONLY \$17 <sup>95</sup>
MODEL G5981 Satin, qt.	ONLY \$17 <sup>95</sup>
MODEL G5982 Gloss, gal.	ONLY \$41 <sup>95</sup>
MODEL G5983 Satin, gal.	ONLY \$41 <sup>95</sup>

### POLYURETHANE

MODEL G5986 Gloss, qt.	ONLY \$10 <sup>95</sup>
MODEL G5987 Satin, qt.	ONLY \$10 <sup>95</sup>
MODEL G5988 Gloss, gal.	ONLY \$30 <sup>95</sup>
MODEL G5989 Satin, gal.	ONLY \$30 <sup>95</sup>

### DANISH OIL FINISH

MODEL G5990 Oak, pt.	ONLY \$5 <sup>49</sup>
MODEL G5991 Oak, qt.	ONLY \$7 <sup>95</sup>
MODEL G5992 Walnut, pt.	ONLY \$5 <sup>49</sup>
MODEL G5993 Walnut, qt.	ONLY \$7 <sup>95</sup>
MODEL G6192 Natural, qt.	ONLY \$5 <sup>49</sup>
MODEL G6193 Natural, qt.	ONLY \$7 <sup>95</sup>
MODEL G5996 Maple, pt.	ONLY \$5 <sup>49</sup>
MODEL G5997 Maple, qt.	ONLY \$7 <sup>95</sup>
MODEL G5998 Mahogany, pt.	ONLY \$5 <sup>49</sup>
MODEL G5999 Mahogany, qt.	ONLY \$7 <sup>95</sup>

**FINISHING**

## FAMOWOOD® FILLER & PUTTY



### WOOD FILLER

For over 50 years, professionals have relied on Famowood® wood filler for finish work and on the job repairs. Now, home cra' n and professionals alike can rely on these time and industry tested products. Solvent free Famowood® wood filler is water based, non-flammable and won't crack or crumble and can be sanded, painted and dries fast too. Great stuff!

MODEL G7447	Birch, ¼ Pint	ONLY	\$2 <sup>95</sup>
MODEL G7448	Cherry/Mahogany, ¼ Pint	ONLY	\$2 <sup>95</sup>
MODEL G7449	Fir/Maple, ¼ Pint	ONLY	\$2 <sup>95</sup>
MODEL G7450	Natural, ¼ Pint	ONLY	\$2 <sup>95</sup>
MODEL G7451	Oak, ¼ Pint	ONLY	\$2 <sup>95</sup>
MODEL G7452	Red Oak, ¼ Pint	ONLY	\$2 <sup>95</sup>
MODEL G7453	Walnut, ¼ Pint	ONLY	\$2 <sup>95</sup>
MODEL G7454	White, ¼ Pint	ONLY	\$2 <sup>95</sup>
MODEL G7455	White Pine, ¼ Pint	ONLY	\$2 <sup>95</sup>
MODEL G7456	Golden Oak, ¼ Pint	ONLY	\$2 <sup>95</sup>

### FINISHING PUTTY

Developed as a non-shrinking, oil-based putty for small, precise applications. Fills nail holes, cracks and imperfections in finished, stained or sealed wood. Available in eight colors to match most woods.



MODEL G7467	Cherry/Mahogany	ONLY	\$2 <sup>59</sup>
MODEL G7468	Golden Oak	ONLY	\$2 <sup>59</sup>
MODEL G7469	Dark Walnut	ONLY	\$2 <sup>59</sup>
MODEL G7470	Early American	ONLY	\$2 <sup>59</sup>
MODEL G7471	Colonial Maple	ONLY	\$2 <sup>59</sup>
MODEL G7472	Pine	ONLY	\$2 <sup>59</sup>
MODEL G7473	White	ONLY	\$2 <sup>59</sup>
MODEL G7474	Bleached Wood	ONLY	\$2 <sup>59</sup>

### CLEAR WOOD SEALER

The secret to a top quality finish is a sanding sealer. Sanding sealer evens staining and fills wood pores for that silky smooth finish typical of fine furniture. Hydrocote® sanding sealer is water borne, fast drying, sands easily and is a snap to clean up.



MODEL G7457	Clear Wood Sealer, Quart	ONLY	\$7 <sup>95</sup>
MODEL G7458	Clear Wood Sealer, Gallon	ONLY	\$24 <sup>95</sup>

### BRUSH & GUN CLEANER

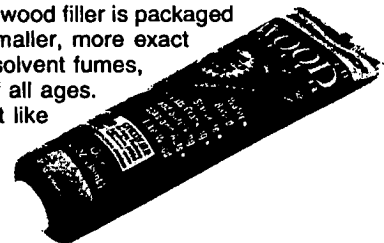
Formulated specifically for use with Hydrocote® finishes, this water-based cleaner does an excellent job cleaning brushes and spray guns.

MODEL G6030	qt.	ONLY	\$7 <sup>95</sup>
MODEL G6031	gal.	ONLY	\$17 <sup>95</sup>



### WOOD FILLER TUBES

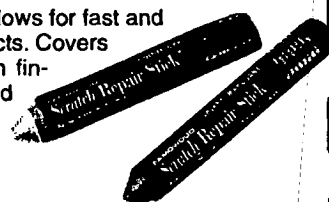
Water-based Famowood® wood filler is packaged in convenient tubes for smaller, more exact applications. No harmful solvent fumes, so it's great for crafters of all ages. When dry, it performs just like real wood.



MODEL G7443	Red Oak	ONLY	\$2 <sup>59</sup>
MODEL G7444	Fir/Maple	ONLY	\$2 <sup>59</sup>
MODEL G7445	Oak	ONLY	\$2 <sup>59</sup>
MODEL G7446	Walnut	ONLY	\$2 <sup>59</sup>
MODEL G7475	Natural	ONLY	\$2 <sup>59</sup>

### SCRATCH REPAIR STICKS

Famowood® scratch repair stick allows for fast and easy coverage of small wood defects. Covers scratches, nicks and blemishes in finished wood. Applies smoothly and quickly and touches up with just a finger.

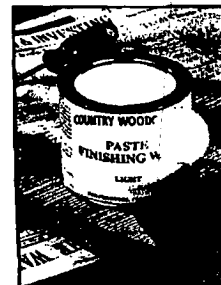


MODEL G7459	Cherry/Mahogany	ONLY	\$2 <sup>39</sup>
MODEL G7460	Golden Oak	ONLY	\$2 <sup>39</sup>
MODEL G7461	Dark Walnut	ONLY	\$2 <sup>39</sup>
MODEL G7462	Early American	ONLY	\$2 <sup>39</sup>
MODEL G7463	Colonial Maple	ONLY	\$2 <sup>39</sup>
MODEL G7464	Pine	ONLY	\$2 <sup>39</sup>
MODEL G7465	White	ONLY	\$2 <sup>39</sup>
MODEL G7466	Bleached Wood	ONLY	\$2 <sup>39</sup>

### FINISHING WAX

Carnuba finishing wax provides a satin luster and an extra degree of hardness and durability.

MODEL G6032	Light, pt.	ONLY	\$7 <sup>95</sup>
MODEL G6033	Light, 5pt.	ONLY	\$24 <sup>95</sup>
MODEL G6034	Dark, pt.	ONLY	\$7 <sup>95</sup>
MODEL G6035	Dark, 5pt.	ONLY	\$24 <sup>95</sup>



## DISPOSABLE GLOVES

These 5mil thick vinyl gloves offer an economical way to protect your hands when cleaning and painting. Excellent comfort, fit and dexterity. **BOX OF 100**



**MODEL G6751 Medium SPECIAL \$7<sup>95</sup>**

**MODEL G2634 Large SPECIAL \$7<sup>95</sup>**

## CHIP BRUSHES

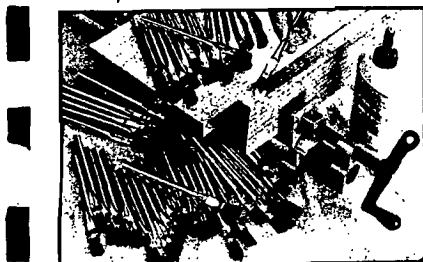
Keep a good supply of these handy 100% bristle chip brushes. They're perfect for use with stains, glues and resins - or other substances that will ruin your more expensive "keeper" paintbrushes. Includes 1", 2" and 3" sizes to accommodate most projects. Includes 50 pieces.



**MODEL G3582 50 Pc. ONLY \$14<sup>95</sup>**

## GLUE BRUSHES

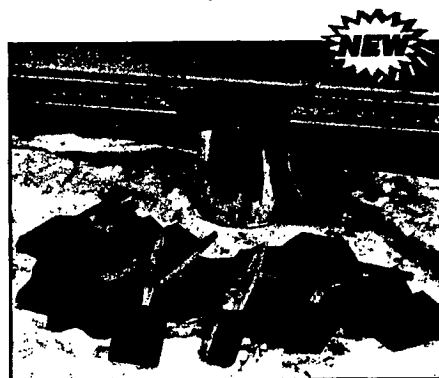
Use these handy disposable 3/4" and 1" brushes for everything from glue to flux. Made with extra-long horsehair bristles. In 50-count packs. 25 of each size.



**MODEL G3722 ONLY \$7<sup>95</sup>**

## 24-PC. FOAM BRUSH SET

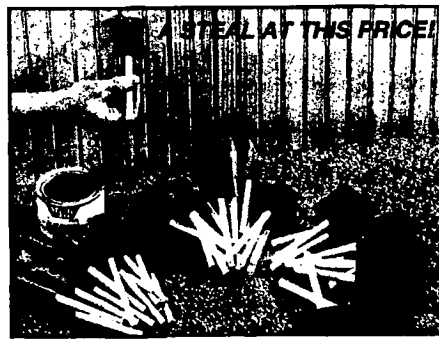
Convenient 24-pc. Foam Brush Set with plastic handles and internal support panels are perfect for painting, staining, varnishing, antiquing and enameling. Includes ten 1" brushes, eight 2" brushes and six 3" brushes. These disposable brushes are actually environmentally friendly since there's no need to use and dispose of solvents.



**MODEL G9727 24 Pc. ONLY \$5<sup>95</sup>**

## FOAM BRUSHES

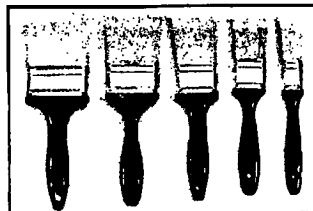
These disposable foam brushes are just what the doctor ordered for water-and-oil based paints and finishes. Made with wooden handle and a tough plastic support panel. Ideal for use with stains, varnish and urethane finishes. Includes 50 piece set of 1", 2" and 3" sizes.



**MODEL G3590 50 Pc. ONLY \$11<sup>95</sup>**

## POLYESTER BRUSH SET

Perfect for all painting and staining chores, this 5-piece collection of polyester brushes is both durable and highly affordable. Their tapered bristles provide added flow control, so they're great for touching up and edging. Contoured plastic handles provide a solid grip. Set includes 1", 1 1/2", 2", 2 1/2", and 3" brushes.



**MODEL G8074 ONLY \$5<sup>95</sup>**

## TACK CLOTH

Wipe away dust, dirt and sanding residue prior to finishing. Always soft and tacky, these tack cloths are compatible with all paints. Non-toxic and wax and silicon free. Each cloth is individually wrapped, 18" x 36" surgical-grade bleached gauze.



**MODEL G3003 Pack of 12 ONLY \$6<sup>95</sup>**

**MODEL G3004 Case of 144 ONLY \$59<sup>95</sup>**

## 8-PC. PAINT BRUSH SET

Just the ticket for emergency touch-up or quick painting chores, this affordable kit includes a plastic paint tray, medium-grit sandpaper, 2" bristle brush, 7" flat roller and an easy-to-use edging roller with three interchangeable foam rollers for corners, edges and trim. An extra 7" foam roller pad is included.



**MODEL G8212 ONLY \$5<sup>95</sup>**

## RUBBER GLOVES

Protect yourself when using paints, stains, solvents and other cleaners with these industrial-quality rubber gloves.



Large Size  
**MODEL G2635 PER PAIR \$3<sup>95</sup>**  
**3 OR MORE PAIRS (EA.) \$3<sup>50</sup>**

## SAFETY EQUIPMENT

### FACE AND EYE PROTECTION

**FACE SHIELD** This professional-quality shield offers full facial protection, making it an ideal choice for lathe work. Visor guards against light impacts, sparks and liquid splashes. Visor is made of durable polycarbonate to resist impact. Brow guard is constructed of tough thermoplastic materials. Adjustment for head size. Meets or exceeds ANSI Z87.1-1989. Safety glasses should be worn under visor for eye protection.

**MODEL G7984** Face Shield, Complete with Visor **ONLY \$9.95**



**SAFETY GLASSES** Safety glasses can be functional as well as fashionable. All of these models meet the requirements of ANSI Z87.1-1989 with impact resistant polycarbonate lenses. The lenses also block 99.9% of harmful ultraviolet light. Easily adjustable ear pieces for comfortable wearing.

<b>MODEL H1298</b>	UV Blocking, Dust Sealed Safety Glasses	<b>ONLY \$12.95</b>
<b>MODEL H1299</b>	UV Blocking, Mirror Coating Safety Glasses	<b>ONLY \$7.95</b>
<b>MODEL H1300</b>	UV Blocking, Clear Safety Glasses	<b>ONLY \$5.95</b>
<b>MODEL H1301</b>	UV Blocking, Clear Safety Glasses	<b>ONLY \$6.95</b>
<b>MODEL G7985</b>	Laser Safety Glasses	<b>ONLY \$8.95</b>
<b>MODEL H2347</b>	Uvex Spitfire	<b>ONLY \$5.95</b>
<b>MODEL H2348</b>	Astrospec 3000 Clear/Patriot	<b>ONLY \$6.95</b>



### SAFETY GLASSES

A metal band across the top of these glasses is not only stylish, but it adds strength. This band is linked to the metal ear pieces through a tough hinge. These glasses have a wide field of view and side shields for added protection. Exceeds ANSI Z87.1 - 1989 standards for impact resistance.

**MODEL H0735** **ONLY \$7.95**



### SAFETY GLASSES

The plastic ear pieces on these tough safety glasses are easily adjustable in length for comfort. The clear plastic lens is impact and scratch resistant, and has wrap around side shields for clear viewing and protection from the sides. Exceeds ANSI Z87.1 - 1989 standards for impact resistance.

**MODEL H0736** **ONLY \$5.95**

### RESPIRATORS

These maintenance-free half mask respirators come completely and permanently assembled with cartridges so they're ready to use. Each features soft, lightweight elastomeric face piece, cradle suspension, easy adjust headstraps and low profile for greater field of vision with use of eyeglasses or goggles. The particulate respirators have custom designed shapes, nosepieces and headstraps for superior fit and have collapse resistant, double-shell construction.



**G7869 / G7870**



**G7867**

**H2343**

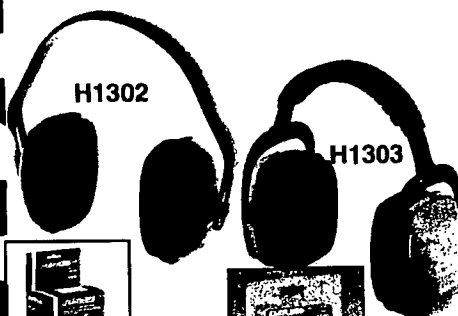
**G7871**

**G7866**

<b>MODEL G7869</b>	Half Mask Respirator - Organic Vapor	<b>ONLY \$17.95</b>
<b>MODEL G7870</b>	Half Mask Respirator - Oil / Organic Vapor	<b>ONLY \$19.95</b>
<b>MODEL G7871</b>	Particulate Filter / Pair	<b>ONLY \$3.95</b>
<b>MODEL G7872</b>	Filter Retainer / Pair	<b>ONLY \$2</b>
<b>MODEL G7866</b>	Particulate Respirator / 20 Pack N95	<b>ONLY \$14..</b>
<b>MODEL G7867</b>	Particulate Respirator w/ Valve / 10 Pack N95	<b>ONLY \$17.95</b>
<b>MODEL H2343</b>	Nuisance Dust Mask / 5 Pack	<b>ONLY \$2.95</b>
<b>MODEL H2344</b>	Nuisance Dust Mask / 50 Pack	<b>ONLY \$11.95</b>

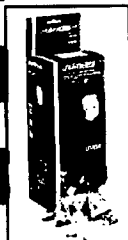
## SAFETY EQUIPMENT

### HEARING PROTECTION



**EARMUFFS** Two different styles of comfortable wearing earmuffs reduce the noise level by 25 decibels. Model H1302 can be worn with the headband over or behind the head. Model H1303 has an extra long headband to fit virtually any head size, and can be folded for easy storage.

MODEL H1302	Earmuffs	ONLY \$12.95
MODEL H1303	Folding Earmuffs	ONLY \$29.95



H1304



H1305

**EARPLUGS** Disposable foam earplugs insert into the ear and quickly conform to any size ear canal. Low pressure expandable foam provides 33 decibel noise reduction with superior comfort.

MODEL H1304	Foam Earplugs - 100 pair dispenser pack	ONLY \$19.95
MODEL H1305	Foam Earplugs - 2 pairs	ONLY \$1.95



H2345



H2346

**EARPLUGS** As lightweight alternatives to ear muffs, these earplugs meet ANSI S3.19-1974 standards. Both sets are comfortable and designed for extended wear. H2345 provides 27 decibel noise reduction and H2346 provides 21 decibel noise reduction.

MODEL H2345	Airsoft Earplugs	ONLY \$2.95
MODEL H2246	Quiet Band	ONLY \$5.95

### MAGNI-FOCUSER®

Perfect for extended periods of close-up detail work, this magnifier has an adjustable contoured headband for a perfect fit. Can be worn over regular eyeglasses. Standard model comes with a 1.75x lens, good for working at distances of 14", or get the halogen lighted model for enhanced viewing. An auxiliary lens with pivoting monacle brings total magnification to 4.25x for a working distance of 4".



H1131

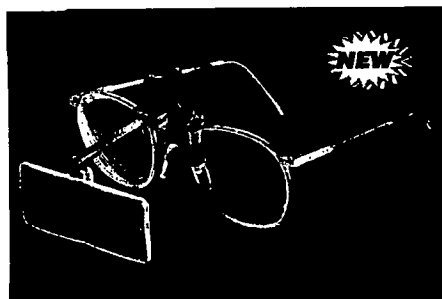


H1130

MODEL H1130	Magni-focuser	ONLY \$18.95
MODEL H1131	Magni-focuser with light	ONLY \$69.95
MODEL H1132	Auxiliary Lens w/ 3.5x monacle	ONLY \$14.95

### SPRING CLIP OPTICAID

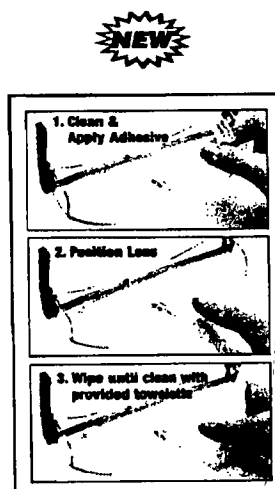
Spring clip allows attachment to almost any pair of glasses. Two different magnifications available - the 1.75x is good for a working distance of 14", the 2.25x is good at 8". Comes with a handy pouch.



MODEL H1133	1.75 x	ONLY \$21.95
MODEL H1134	2.25 x	ONLY \$21.95

### OPTX-20/20® READING LENSES FOR PROTECTIVE EYEWEAR

Removable lenses for safety glasses add magnification to any pair of safety glasses in an instant. These lenses "stick" through a molecular attraction to glass and plastic and provide you with a wide field, ergonomically correct view. Reading lenses can be easily repositioned on the inside surface of safety glasses to enable visibility in any direction, above or below the head as working needs change. Your eye prescription will generally have a plus power in the ADD section. This should be your reading segment. Please ask your doctor if there is a question. Lenses are available from +1.25 to +3.00 Diopters in .25 Diopter steps.



MODEL H2100	+1.25	ONLY \$19.95
MODEL H2101	+1.5	ONLY \$19.95
MODEL H2102	+1.75	ONLY \$19.95
MODEL H2103	+2.5	ONLY \$19.95
MODEL H2104	+2.5	ONLY \$19.95
MODEL H2105	+3	ONLY \$19.95

## SAFETY EQUIPMENT

### BULK FIRST AID KITS



**64-PC. SET** A life-saving selection of 64 essentials for shop, home and travel injuries. Packaged in a durable, high impact case, this kit includes an ample supply of bandages, antiseptics, instructions and a wealth of AMA-approved materials for on-the-spot first aid treatment.

**MODEL G5894**

**64-Pc. Set**

**ONLY \$9.95**

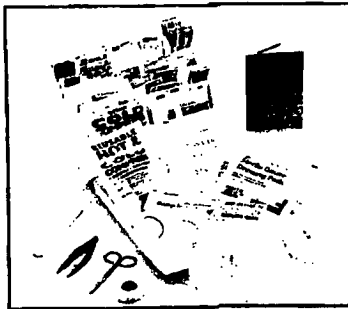
**113-PC. SET** Packed with all the first aid essentials for the shop or home, this 113-piece kit conforms to guidelines for most states' requirements for on-the-job safety equipment. This water resistant, wall-mountable kit includes a 72-page AMA first aid guide, along with a generous selection of tools, bandages, dressings and compresses.

**MODEL G5895**

**113-Pc. Set**

**ONLY \$19.95**

### 144-PC. FIRST AID STATION



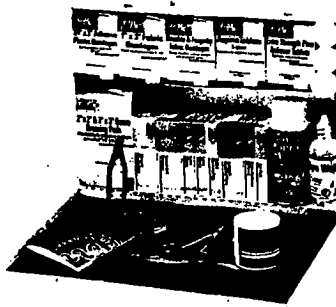
An ideal one-stop first aid station for offices, shops or construction sites. The station can be wall mounted or easily carried to the area of need in its handy carrying case. It contains 144 important first aid products and a 72 page AMA first aid guide book. Meets Federal OSHA recommendations for on-site aid kits. Can serve up to 50 office people or a 25 person worksite. Contents are color-coded to easily see when replacements are required.

**MODEL G9144**

**144-Pc. Set**

**ONLY \$24.95**

### 2 SHELF FIRST AID STATION



Be ready. Be smart. American Medical Association authorized first aid kit contains a case of different items to handle anything from headaches and heartburn to cuts, sprains and burns. Comes in a sturdy three shelf metal cabinet which can be hung on a wall or carried. Along with the treatment items, this kit also contains four AMA first aid guides covering stress, blood pressure, allergies and first aid. Meets Federal OSHA recommendations for on-site kits. Can serve up to 100 office people or a 50 person worksite.

**MODEL G9143**

**ONLY \$79.95**

### PERSONAL CPR KIT

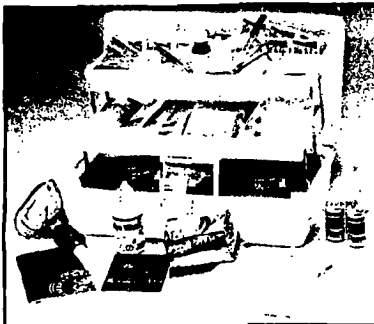


This Cardio-Pulmonary Resuscitation Kit contains the tools you need to perform CPR safely and effectively. A tragedy can be avoided if the victim is able to receive life-sustaining air until the professional emergency medical team arrives. Kit contains one CPR Rescue Breather™ one-way valve face shield, two latex gloves and a personal anti-microbial wipe. Keep several in strategic locations in the shop, in company vehicles and personal vehicles as well.

**MODEL G9145**

**ONLY \$4.95**

### COMPLETE FIRST AID RESOURCE



Like having a hospital in a tool box! And no forms from your HMO to purchase! A comprehensive first aid station packaged in a convenient tool box-style carrying case. Contains 216 items needed for first aid for yourself, family, sports teams or employees. Kit includes a CPR Rescue Breather™, thermometer, thermal blanket, emergency weather poncho, latex gloves, 76-page AMA first aid guide, flashlight, batteries and a complete assortment of bandages, dressings and treatment aids. Absolutely indispensable for those wanting to be ready for any emergency.

**MODEL G9146**

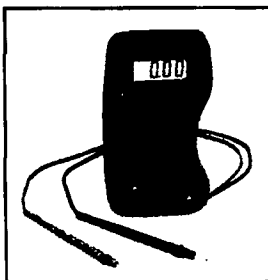
**ONLY \$89.95**



## MULTIMETER & TESTING EQUIPMENT

### POCKET DIGITAL MULTIMETER

Pocket size • Data hold • Auto power off  
DC Voltage:  $4V \pm 0.5\%$ ,  
 $40/400/600V \pm 0.8\%$   
AC Voltage:  $4/40/400/600V \pm 1.2\%$   
DC Current:  $40/400mA \pm 2.0\%$   
AC Current:  $40/400mA \pm 3.5\%$   
Resistance:  $400/4k/40k/400k/4M$   
 $\pm 1.5\%$ ,  $40M \text{ ohm} \pm 3.0\%$   
Continuity checking with buzzer  
Overall size:  $2\frac{3}{4}'' \times 4\frac{3}{4}'' \times \frac{3}{4}''$

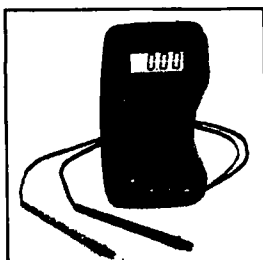


MODEL H0467

ONLY \$8.95

### POCKET DIGITAL MULTIMETER - AUTO

Pocket size • Data hold • Auto power off  
Auto-ranging on all functions  
DC Voltage:  $4V \pm 0.5\%$ ,  $40/400/600V \pm 0.8\%$   
AC Voltage:  $4/40/400/600V \pm 1.2\%$   
DC Current:  $40/400mA \pm 2.0\%$   
AC Current:  $40/400mA \pm 3.5\%$   
Resistance:  $400/4k/40k/400k/4M$   
 $\text{ohm} \pm 1.5\%$ ,  $40M \text{ ohm} \pm 3.0\%$   
Continuity checking with buzzer  
Overall size:  $2\frac{3}{4}'' \times 4\frac{3}{4}'' \times \frac{3}{4}''$

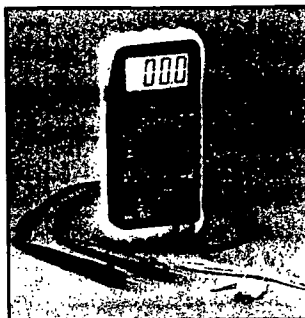


MODEL H0468

ONLY \$14.95

### DIGITAL MULTIMETER

32 ranges • Large LCD display  
Auto power off • DC Voltage:  
 $200m/2/200V \pm 0.5\%$ ,  $1000V \pm 0.8\%$   
AC Voltage:  $200mV \pm 1.2\%$ ,  
 $2/20/200V \pm 0.8\%$ ,  $700V \pm 1.2\%$   
DC Current:  $20\mu A \pm 2\%$ ,  
 $200\mu/2m/20mA \pm 0.8\%$ ,  $200m/2A \pm 1.5\%$ ,  
 $10A \pm 2\%$  • AC Current:  $200m/2A \pm 1.8\%$ ,  
 $2m/20mA \pm 1\%$ ,  $10A \pm 3\%$  • Resistance:  
 $200/2k/20k/200k/2M \text{ ohm} \pm 0.8\%$ ,  $20M$   
 $\text{ohm} \pm 1\%$ ,  $200M \text{ ohm} \pm 5\%$   
Continuity checking with buzzer  
Size:  $3\frac{3}{8}'' \times 7\frac{1}{8}'' \times 1\frac{1}{4}''$

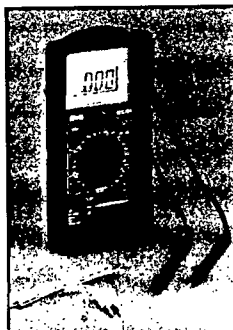


MODEL H0469

ONLY \$29.95

### DIGITAL/POINTER MULTIMETER

DC Voltage:  $200m/2/20/200V \pm (.5\% \text{ of rmd} + 1 \text{ digit})$ ,  $1000V \pm (.8\% \text{ of rmd} + 2 \text{ digits})$   
AC Voltage:  $200mV \pm (1.2\% \text{ of rmd} + 3 \text{ digits})$ ,  
 $2/20/200V \pm (.8\% \text{ of rmd} + 3 \text{ digits})$ ,  $700V$   
 $\pm (1.2\% \text{ of rmd} + 3 \text{ digits})$  • DC Current:  $20\mu A$   
 $\pm (2\% \text{ of rmd} + 5 \text{ digits})$ ,  $200\mu/2m/20mA \pm (.8\% \text{ of rmd} + 1 \text{ digit})$ ,  $200m/2A \pm (1.5\% \text{ of rmd} + 1 \text{ digit})$  • AC Current:  $200\mu/2A \pm (1.8\% \text{ of rmd} + 3 \text{ digits})$ ,  
 $2m/20mA \pm (1\% \text{ of rmd} + 3 \text{ digits})$ ,  
 $200m/2A \pm (1.8\% \text{ of rmd} + 3 \text{ digits})$   
Resistance:  $200 \text{ ohm} \pm (.8\% \text{ of rmd} + 3 \text{ digits})$ ,  
 $2k/20k/200k/2M \text{ ohm} \pm (.8\% \text{ of rmd} + 1 \text{ digit})$ ,  
 $20M \text{ ohm} \pm 1\%$ ,  $200M \text{ ohm} \pm 5\%$  • Continuity  
checking with buzzer • Size:  $3\frac{3}{8}'' \times 7\frac{1}{8}'' \times 1\frac{1}{4}''$

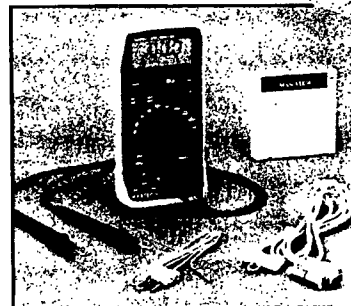


MODEL H0470

ONLY \$29.95

### DIGITAL PC MULTIMETER

• RS232C standard interface  
• Digital and analog display • DC  
Voltage:  $4/40/400V \pm 0.5\%$ ,  
 $1000V \pm 0.8\%$  • AC Voltage:  
 $4/40/400V \pm 1.2\%$ ,  $750V \pm 1.5\%$   
• DC Current:  $4/400mA \pm 1.2\%$ ,  
 $10A \pm 2.0\%$  • AC Current:  
 $4/400mA \pm 1.5\%$ ,  $10A \pm 3.0\%$   
• Resistance:  $400/4k/40k/400k/4M$   
 $\text{ohm} \pm 1.2\%$ ,  $20M \text{ ohm} \pm 3.0\%$   
• Capacitance:  $4/400nF \pm 4.0\%$   
• Continuity test • Data hold  
• Diode test • Auto range and man-  
ual range • Size:  $3\frac{1}{8}'' \times 7\frac{7}{8}'' \times 1\frac{1}{8}''$

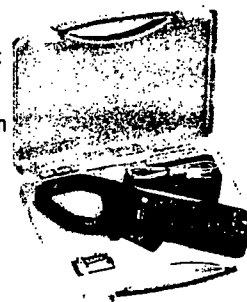


MODEL H0471

ONLY \$59.95

### DIGITAL CLAMP METER

• DC Voltage:  $2/20/200V \pm 0.5\%$ ,  
 $1000V \pm 1.0\%$  • AC Voltage:  
 $200/750V \pm 1.0\%$ ,  $750V \pm 1.5\%$  • AC Current:  
 $200/1000A <600A \pm 2.0 >600A \pm 3.0\%$   
• Maximum diameter for conductor: 50mm  
• Resistance:  $200 \text{ ohm} \pm 1.0\%$ ,  $20k/2M \text{ ohm}$   
 $\pm 1.5\%$  • Frequency:  $2kHz \pm 2.0\%$ ,  
 $20kHz \pm 1.5\%$  • Temperature:  $0-$   
 $750^\circ C \pm 2.0\%$ ,  $32-1400^\circ F \pm 2.0\%$   
• Continuity test • Data hold • Diode test  
• Back light • Size:  $3\frac{3}{8}'' \times 11'' \times 1\frac{1}{8}''$

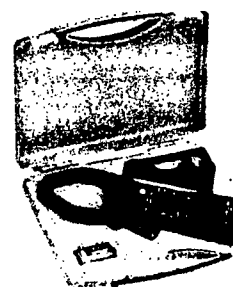


MODEL H0472

ONLY \$49.95

### DIGITAL/ANALOG CLAMP METER

• Digital and analog display • DC  
Voltage:  $3/30/300V \pm 0.8\%$ ,  $1000V \pm 1.0\%$   
• AC Voltage:  $3/30/300V \pm 1.0\%$ ,  
 $750V \pm 1.2\%$  • DC Current:  
 $300/600A \pm 3.0\%$  • AC Current:  
 $300A \pm 2.0\%$ ,  $1000A <600A \pm 2.0$   
 $>600A \pm 3.0\%$  • Maximum diameter for  
conductor: 50mm • Resistance:  
 $300/3k/30k/300k/3M \text{ ohm} \pm 1.5\%$ ,  $30M$   
 $\text{ohm} \pm 2.0\%$  • Frequency:  $30kHz \pm 2.0\%$   
• Continuity test • Data hold • Diode test  
• Back light • Autorange and manual  
range • Size:  $4\frac{1}{8}'' \times 11\frac{1}{8}'' \times 1\frac{1}{4}''$



MODEL H0473

ONLY \$79.95

### DIGITAL PHOTO TACHOMETER

Measuring RPM is safe and accurate  
without physically attaching the  
tachometer to the object. Features a  
wide measuring range and high  
resolution with automatic storage of  
last minimum/maximum values.  
Other features include: • Test range:  
 $5 - 99999 \text{ RPM} \pm .05\%$  • Sampling  
time: 1 sec. (over 60 RPM)  
• Detecting distance:  $50-150mm/2-6''$   
(max.  $300mm/12''$ ) • Dimension:  
 $2\frac{1}{8}'' \times 7\frac{1}{2}'' \times 1\frac{1}{2}''$  • Includes foam  
fitted case



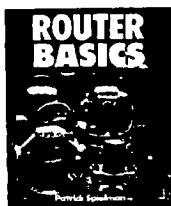
MODEL H0474

ONLY \$79.95

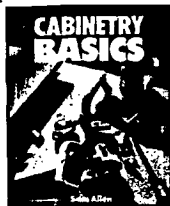
# WOODWORKING BOOKS

## THE "BASICS SERIES"

These Basic Series books belong in every woodworker's library. Written by best selling authors in woodworking, they cover everything from tool set-up to time saving techniques in a clear, precise visual presentation. Each book is 128 pages. Buy the whole set and save!



H1236



H1241



H1237



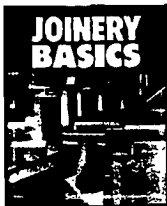
H1242



H1238



H1243



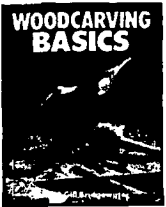
H1239



H1244



H1240



H1245

**ONLY \$11.95 \$9.95 ea.**

**Buy the Whole Set and Save!**

**MODEL H1400 ONLY \$84.95**

## WOODCARVING



Ron Butterfield shows you how to elevate your ability to a true talent for woodcarving. Butterfield explains chip carving, relief carving, decorative carving, 17th century furniture decoration and much more. 128 pages.

**MODEL G3035 \$14.95 ONLY \$12.95**

## BAND SAW HANDBOOK



Every saw, blade, option, technique — and how to select the right one. Step-by-step instructions teaches cutting basics, curve and circle work, straight cuts, unusual designs and advanced methods. 320 pages.

**MODEL G1928 \$17.95 ONLY \$15.95**

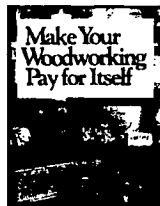
## TUNE UP YOUR TOOLS



To get the most out of your power tools, this book provides checklists, troubleshooting charts and easy to follow photo sequences to keep every power tool in your shop working perfectly. 144 pages.

**MODEL G7856 \$22.99 ONLY \$19.95**

## MAKE WOODWORKING PAY FOR ITSELF



If you've been thinking about turning your woodworking hobby into a money-maker, you'll want to grab a copy of Jack Neff's insightful guide. This book could save you a ton of expensive mistakes! 114 pages.

**MODEL G4826 \$16.95 ONLY \$14.95**

## MAKE YOUR OWN JIGS & WOODSHOP FURNITURE



Create the shop of your dreams by building your own tool cabinets, workbench, router table and 40 other essential woodshop fixtures. 135 pages.

**MODEL G7857 \$24.99 ONLY \$21.95**

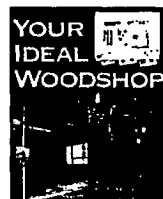
## SHAPER HANDBOOK



Roger Cliffe and Michael show you the potential of your shaper. Hundreds of techniques are explored in vivid detail and clear step-by-step instructions. There are tips on freehand shaping as well as jig and fixture shaping. 256 pages.

**MODEL G3030 \$17.95 ONLY \$15.95**

## DESIGN & BUILD YOUR IDEAL WOODSHOP



Turn your vision of the perfect woodshop into reality. With this guide you can do it all yourself and begin transforming the space you've got into the shop of your dreams. 160 pages.

**MODEL G7859 \$24.99 ONLY \$21.95**

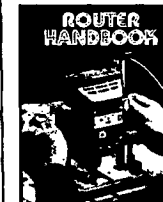
## ROUTER JIGS & TECHNIQUES



Hundreds of "before-you-buy" tips and "how-to-use" techniques for dozens of bits, aids and devices. 800 photos and draftsman drawings. Cut perfect ovals, joints and other special applications. 384 pages.

**MODEL G1925 \$17.95 ONLY \$15.95**

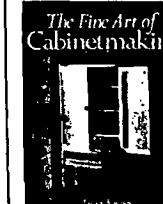
## THE NEW ROUTER HANDBOOK



The latest, updated version of the most popular book by Patrick Spielman contains 800 photographs and line drawings that completely cover the basics, and advanced techniques for a variety of routers, bits, jigs and fixtures. 384 pages.

**MODEL G1901 \$17.95 ONLY \$15.95**

## THE FINE ART OF CABINETMAKING



With a very philosophical approach, master craftsman James Krenov guides you through the processes involved in creating a piece of fine furniture. Many sketches and photo illustrations included. 192 pages.

**MODEL G3025 \$17.95 ONLY \$15.95**

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# WOODWORKING BOOKS

BOOKS

## SOUTHWEST SCROLL SAW PATTERNS



**NEW** The flavor of the American Southwest as a decorating style is as popular as ever. Now you can create these characteristic motifs with your scroll saw. Over 200 new patterns inspired by the great early cultures of the American Southwest. 160 pages.

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## DECORATIVE & ORNAMENTAL SCROLL SAW PATTERNS



Whether you're looking for a gift, something for your home, or objects to sell, you'll find it here in the largest selection available of decorative and ornamental patterns and projects for scroll-saw cutting. With over 100 projects, there's something for everyone. 128 pages.

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Master the techniques of veneering with this complete workshop. Use the right tool for the right situation, prepare, cut and strengthen veneer, apply adhesives and even add an attractive finish. Includes five handsome projects to practice your skills. 192 pages.

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This reference with its durable shop-proof cover is filled with expert facts, tips and shortcuts including tune-up techniques. Consult it while you're working because it will lay flat on your workbench. And with the topic tabs, it's like having a master woodworker to guide you through virtually any situation. 160 pages.

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## ROUTER WORKSHOP BENCH REFERENCE™



Whether it's a special technique or a particular jig, the information you need to get the job done is right in this book. Flip to the right page by checking the tabs for concise directions, expert tips and important shortcuts. The spiral binding lets you keep the book flat. 160 pages.

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## SCROLL SAW WORKSHOP BENCH REFERENCE™



This durable bench-top manual, with its shop-proof cover and spiral binding that lies flat, contains every professional secret and shortcut you'll ever need. From standard features to saw blades, from adjustments and alignment to materials and sawing operations, it's the complete start-to-finish reference to the scroll saw. 160 pages.

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## TABLE SAW WORKSHOP BENCH REFERENCE™



Get all the answers to your table saw questions quickly with this simple-to-use reference guide. Consult it while you're working because it will lay flat on your workbench. And with the topic tabs, it's like having a master woodworker to guide you through virtually any situation. 160 pages.

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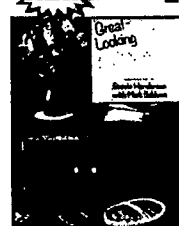
## DECORATIVE WOODCARVING



With insider secrets and wide-ranging lessons from a top-notch teacher, you'll learn the woodcarving techniques the professionals use. Includes 4 special projects to apply and develop your woodcarving skills. Fully illustrated with color photos. 160 pages.

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You don't need loads of experience, expensive lumber or fancy tools to make attractive furniture — just a few 2x4's and stock lumber. Twenty one fully illustrated projects including material lists and easy directions. 128 pages.

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## THE ULTIMATE BIRDHOUSE BOOK



40 functional and fanciful homes for our feathered friends. Some designs take their cues from architectural styles. Others utilize natural as well as recycled materials from the home and shop. Each plan features full color photos and step by step instructions. 128 pages.

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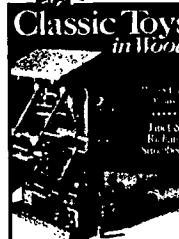
## WOODTURNING



Keith Rowley's best-selling introduction to the art of woodturning is exceptional for its friendly and methodical approach, building up the reader's skills and confidence by logical and progressive steps. Includes step-by-step instructions for 12 simple and effective projects. 177 pages.

MODEL H1223 ~~\$19.95~~ ONLY \$17<sup>95</sup>

## CLASSIC TOYS IN WOOD



Thrill the children in your life with special toys made with the love and care that can only be captured in handcrafted woodwork. With these incredibly detailed blueprints and basic hand and power tools, you can make more than 25 toys. 96 pages.

MODEL H1229 ~~\$13.95~~ ONLY \$11<sup>95</sup>

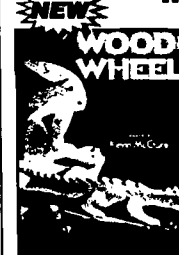
## FUN TO MAKE WOODEN TOYS & GAMES



Twelve original and entertaining toys to make for children of all ages. Instructions for each project are given in a clear, easy-to-read style, accompanied by color photographs and plentiful diagrams giving all the essential information. 168 pages.

MODEL H1217 ~~\$17.95~~ ONLY \$15<sup>95</sup>

## WOOD ON WHEELS



Make toys that rock and roll, wiggle and shake. 35 action-packed projects — from an alligator with snapping jaw to a classic little red wagon to an exciting wind-powered sail car — all designed to capture a child's interest and enchant woodworkers. 144 pages.

MODEL H1248 ~~\$16.95~~ ONLY \$14<sup>95</sup>

## POWER TOOLS FOR WOODCARVING



An impartial account of the pros and cons of flexible-shaft machines, micromotors and miniature turbines, power chisels, power files, angle grinders, chainsaws, die grinders, routers and other portable and stationary machines. Includes a listing of UK and US suppliers. 130 pages.

MODEL H1230 ~~\$19.95~~ ONLY \$17<sup>95</sup>

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# WOODWORKING BOOKS

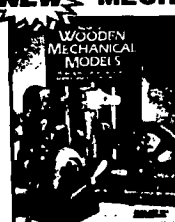
## CREATING BEAUTIFUL BOXES WITH INLAY TECHNIQUES



The definitive guide that makes building elegant boxes easy. Includes 15 full-color, step-by-step projects with a wide range of features. 128 pages with 230 color and 30 black and white illustrations.

**MODEL H1161 \$24.99 ONLY \$21.95**

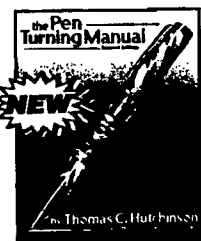
## MAKING WOODEN MECHANICAL MODELS



Step-by-step instructions for fifteen projects. Each one features full drawings, cutting lists and special tips for making difficult steps easier. 138 pages with 15 color images.

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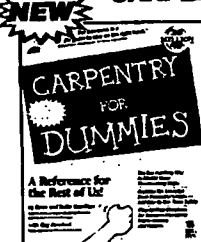
## THE PEN TURNING MANUAL



This manual gives you the "hows" and "whys" of pen making. Included are more than 120 illustrations depicting virtually every model of pen and project kit on the market today. The author of this book got his start making pens for the craft show circuit. 104 pages, illustrated.

**MODEL H1408 \$14.99 ONLY \$12.95**

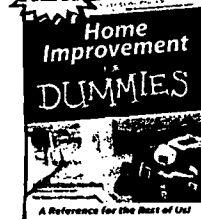
## CARPENTRY FOR DUMMIES



Find out how to perform your own minor repairs. Packed with step-by-step illustrations, this easy-to-navigate do-it-yourselfer's reference is the most recent in the series of ...For Dummies® home improvement books by Gene and Katie Hamilton.

**MODEL H1401 \$16.99 ONLY \$15.95**

## HOME IMPROVEMENT FOR DUMMIES



Here's your guide to tackling projects around the house. This indispensable, plain-speaking guide has plenty of advice for making repairs, decorating your home, and improving the overall quality of your home life.

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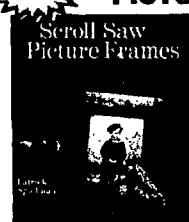
## SIMPLY BEAUTIFUL BOXES



Popular author and woodworker Doug Stow is back with 15 more irresistible projects for crafting truly one-of-a-kind boxes attractive enough to sell or give as gifts. 128 pages with 250 color images.

**MODEL H1162 \$24.99 ONLY \$18.95**

## SCROLL SAW PICTURE FRAMES



This book begins with an excellent discussion of basic sawing and frame construction techniques, then goes on to describe in detail 35 beautiful picture frames. Each project includes a template and easy-to-copy pattern. 128 pages.

**MODEL H1222 \$17.95 ONLY \$15.95**

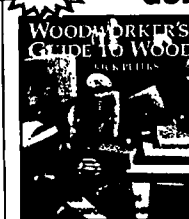
## SCROLL SAW SEGMENTATION



Here is a complete guide to using your scroll saw to cut out individual pieces which are then reassembled to make a whole picture or object. Thirty-nine different projects with patterns and tips to help you get beautiful results. 128 pages.

**MODEL H1227 \$17.95 ONLY \$15.95**

## WOODWORKER'S GUIDE TO WOOD



Written specifically for woodworkers, this guide is packed with information on the characteristics of 60 species of wood, how lumber is milled and graded, and the drying, buying and storing of wood. Lots of helpful tips and illustrations. 190 pages.

**MODEL H1225 \$24.95 ONLY \$21.95**

## MEASURE TWICE, CUT ONCE



Newly revised edition of this best seller! A common-sense guide to working with measuring tools, laying out cuts, cutting to the lines and choosing the right saw. There is even a section on preventing and fixing mistakes. 118 pages, illustrated.

**MODEL H1246 \$22.99 ONLY \$19.95**

## SCROLL SAW PATTERN BOOK



450 patterns for less than \$30 each. Most patterns are full-size and range from simple wall plaques, alphabets, numbers for signs and puzzles, to fine designs. Make practical items such as lamps, napkin rings or gifts for all ages. 256 pages.

**MODEL G1922 \$14.95 ONLY \$12.95**

## SCROLL SAW HANDBOOK



Patrick Spielman reveals every technique and accessory for scroll saws — even how to master touchy inside openings; bevel and compound sawing; tricks of the trade inlay; relief, marquetry and more. Dozens of projects and patterns. 500 photos. 256 pages.

**MODEL G1923 \$17.95 ONLY \$15.95**

## SCROLL SAW FRETWORK PATTERNS



Quick and easy stunning fretwork designs. More than 200 fabulous patterns. Includes basic classics, plus alphabets & numbers, signs — brackets, grills, miniatures and more. Easy-to-follow instructions offer weekend proficiency. 256 pages.

**MODEL G1924 \$14.95 ONLY \$12.95**

## DUST COLLECTION BASICS



Dust collection is a primary concern for most woodworkers. This handbook leads you through the steps necessary to build an efficient central system that will handle your particular dust collection needs. A must! 50 pages.

**MODEL G2525 ONLY \$5.95**

## TURNING PENS AND PENCILS



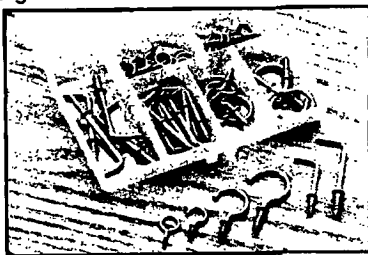
The definitive guide to turning writing instruments. Kim Christensen and Rex Buntingham leave no aspect of this very satisfying craft untouched in their bid to produce the best book on the subject for both seasoned makers and anyone new to the absorbing craft. 164 pages.

**MODEL H1221 \$17.95 ONLY \$15.95**

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## 50-PC. BRASS HOOK & EYE ASSORTMENT

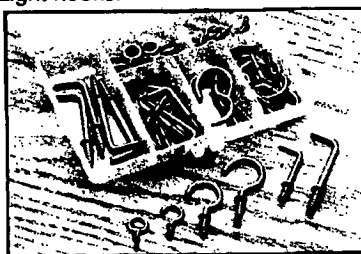
Six sizes of brass hooks in a plastic case: 3/8" Eye; 3/8", 5/8" & 3/4" Cup and 7/8" & 1 1/4" straight hooks.



MODEL H0567 ONLY \$125

## 50-PC. HOOK & EYE ASSORTMENT

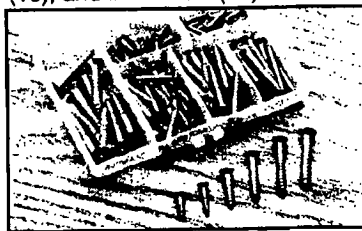
Six sizes of steel hooks in a plastic case: 3/8" Eye; 3/8", 5/8" & 3/4" Cup and 7/8" & 1 1/4" Straight hooks.



MODEL H0568 ONLY \$125

## 100-PC. BRASS WOOD SCREW ASSORTMENT

Divided plastic case, Phillips® drive, flat head, brass. Six sizes - #4 x 1/2"(20), #4 x 3/4"(24), #8 x 3/4"(20), #8 x 1"(14), #8 x 1 1/4"(10), and #10 x 1 3/8"(12).



MODEL H0569 ONLY \$125

## 100-PC. WOOD SCREW ASSORTMENT

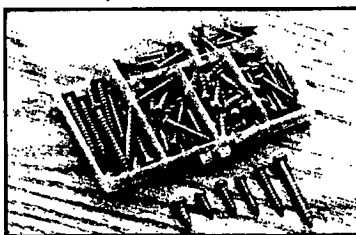
Divided plastic case, Phillips® drive, flat head. Six sizes - #4 x 1/2"(20), #4 x 3/4"(24), #8 x 3/4"(20), #8 x 1"(14), #8 x 1 1/4"(10), and #10 x 1 3/8"(12).



MODEL H0570 ONLY \$125

## 100-PC. BRASS SHEET METAL SCREWS

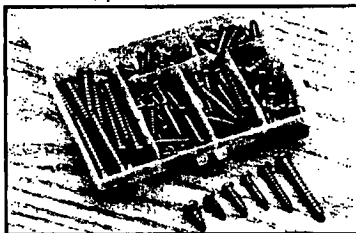
Six sizes included - #6 x 1/2"(20), #6 x 3/4"(20), #8 x 5/8"(15), #8 x 1"(15), #10 x 7/8"(20), and #10 x 1 1/2"(10). Plastic case, combo drive, pan head, brass.



MODEL H0571 ONLY \$125

## 100-PC. SHEET METAL SCREWS

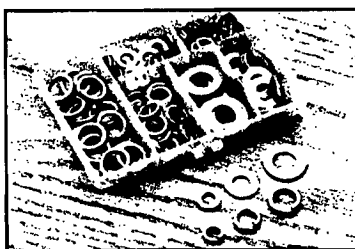
Six sizes included - #6 x 1/2"(20), #6 x 3/4"(20), #8 x 5/8"(15), #8 x 1"(15), #10 x 7/8"(20), and #10 x 1 1/2"(10). Plastic case, combo drive, pan head.



MODEL H0572 ONLY \$125

## 120-PC. FLAT & LOCK WASHERS

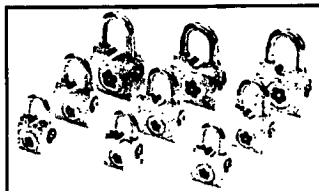
Both sets include 7/16", 5/16" and 1/4" flat and lock washers. Choose brass or nickel.



MODEL H0573 Brass ONLY \$125  
MODEL H0574 Nickel ONLY \$125

## 9-PC. BRASS PADLOCK SET

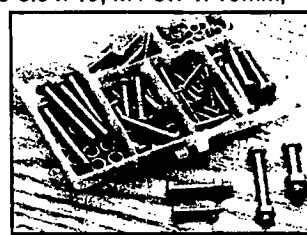
Lock up your tools or anything else you want to keep! Constructed of durable, weather-resistant components, this 9-piece set of individually-keyed locks has numerous uses. Set includes three locks each in three handy sizes: 1"W x 1 5/8"H, 3/4"W x 1 3/8"H and 5/8"W x 1 1/8"H.



MODEL G8188 ONLY \$595

## 100-PC. BRASS MACHINE BOLT & NUT ASSORTMENT

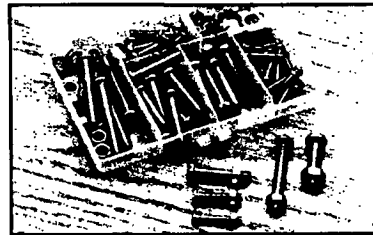
Plastic case, combo drive, pan head, nuts included. Five metric sizes - M3-0.5 x 19, M4-0.7 x 19mm, M5-0.8 x 35 mm, M5-0.8 x 24 mm and M6-1.0 x 24mm.



MODEL H0575 ONLY \$125

## 100-PC. MACHINE BOLT & NUT ASSORTMENT

Plastic case, combo drive, pan head, nuts included. Five metric sizes - M3-0.5 x 19, M4-0.7 x 19mm, M5-0.8 x 35mm, M5-0.8 x 24mm and M6-1.0 x 24mm.

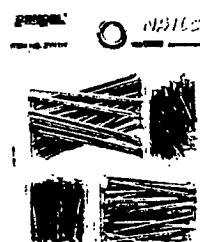


MODEL H0576 ONLY 75¢

## 150-PC. NAIL ASSORTMENTS

Handy nail assortments with four sizes in each set:

Steel - Common  
3/4" x .050, 1" x .050,  
1 1/2" x .080, 2" x .095  
Brass-Round head  
1/2" x .050, 3/4" x .065,  
1" x .060, 1 1/2" x .080



Approximately 150 pieces in each set.

MODEL H0577 Steel ONLY 75¢  
MODEL H0578 Brass ONLY 75¢

## HUMIDOR PRODUCTS

Maintain full cigar flavor with these humidifiers. Easy installation for quick refills. Hygrometer indicates optimum humidity.

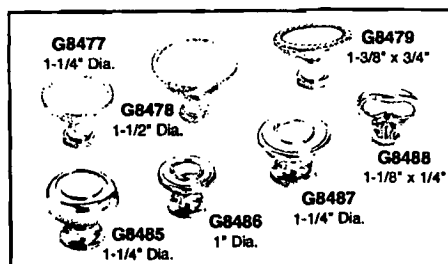
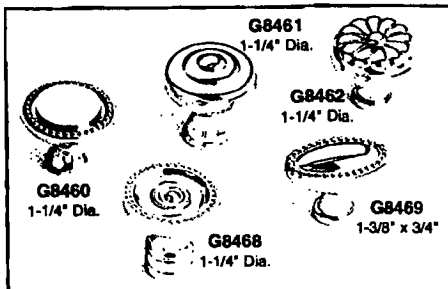


Humidifier  
MODEL G8391 ONLY \$1295  
Humidifier  
MODEL G8392 ONLY \$2995  
Hygrometer  
MODEL G8393 ONLY \$1795

# HARDWARE

## SOLID BRASS KNOBS

Heavy cast, solid brass knobs are finely finished and polished for the most discerning craftsman. Includes screw.



### Solid Brass Knobs

MODEL G8460	EACH	\$3 <sup>95</sup>
MODEL G8461	EACH	\$4 <sup>95</sup>
MODEL G8462	EACH	\$6 <sup>95</sup>
MODEL G8468	EACH	\$7 <sup>95</sup>
MODEL G8477	EACH	\$5 <sup>95</sup>
MODEL G8478	EACH	\$6 <sup>95</sup>
MODEL G8485	EACH	\$4 <sup>95</sup>
MODEL G8486	EACH	\$4 <sup>95</sup>
MODEL G8487	EACH	\$4 <sup>95</sup>

### Solid Brass Oval Knobs

MODEL G8469	EACH	\$6 <sup>95</sup>
MODEL G8479	EACH	\$6 <sup>95</sup>

### Solid Brass Mock Key

MODEL G8488	EACH	\$3 <sup>95</sup>
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## WOODEN DRAWER PULLS

Contemporary hardwood drawer pulls install easily with screws provided.



### Oak Drawer Pulls

MODEL G8522	3"	EACH	\$4 <sup>49</sup>
MODEL G8524	3 1/2"	EACH	\$4 <sup>49</sup>

### Maple Drawer Pull

MODEL G8525	3 1/2"	EACH	\$3 <sup>95</sup>
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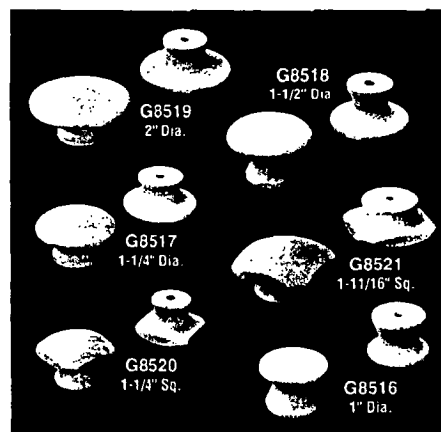
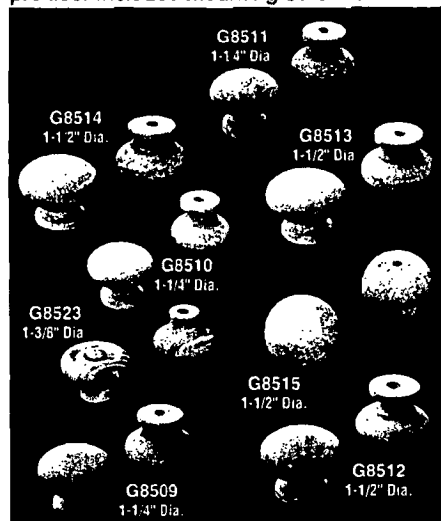
### Birch Drawer Pull

MODEL G8526	3"	EACH	\$3 <sup>95</sup>
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## HARDWARE

## WOODEN KNOBS

Unfinished wooden knobs are available in a variety of wood species to match or contrast with cabinet and furniture wood. Birch knobs with even grain and good staining capabilities can be stained to match existing cabinet finishes. Choose from a variety of profiles. Includes mounting screws.



### Cherry

MODEL G8509	PAIR	\$5 <sup>49</sup>
MODEL G8512	PAIR	\$5 <sup>49</sup>

### Maple

MODEL G8510	PAIR	\$4 <sup>49</sup>
MODEL G8513	PAIR	\$4 <sup>49</sup>
MODEL G8515	PAIR	\$1 <sup>95</sup>

### Oak

MODEL G8511	PAIR	\$4 <sup>49</sup>
MODEL G8514	PAIR	\$4 <sup>49</sup>

### Birch

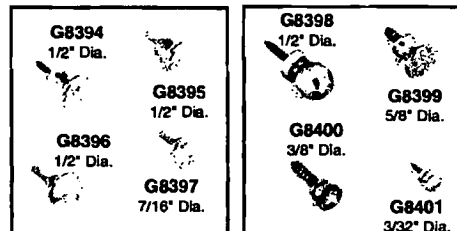
MODEL G8516	PAIR	\$1 <sup>95</sup>
MODEL G8517	PAIR	\$1 <sup>95</sup>
MODEL G8518	PAIR	\$1 <sup>95</sup>
MODEL G8519	PAIR	\$1 <sup>95</sup>
MODEL G8520	PAIR	\$1 <sup>95</sup>
MODEL G8521	PAIR	\$1 <sup>95</sup>

### Ash

MODEL G8523	PAIR	\$2 <sup>49</sup>
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## MINIATURE BRASS KNOBS

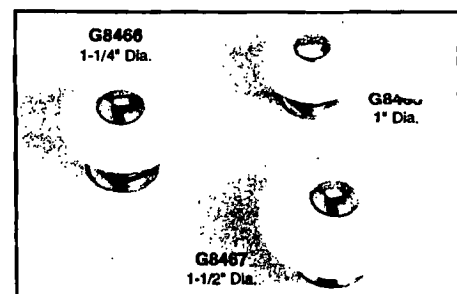
Miniature solid brass knobs with threaded studs are perfect for jewelry boxes.



MODEL G8394	EACH	99¢
MODEL G8395	EACH	99¢
MODEL G8396	EACH	99¢
MODEL G8397	EACH	99¢
MODEL G8398	EACH	\$1 <sup>49</sup>
MODEL G8399	EACH	\$1 <sup>49</sup>
MODEL G8400	EACH	79¢
MODEL G8401	EACH	99¢

## PORCELAIN & BRASS KNOBS

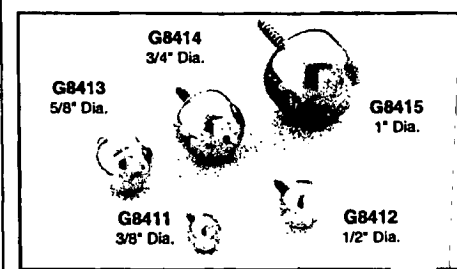
Match these porcelain and brass knobs with our porcelain and brass drawer balls. Includes mounting screws.



MODEL G8465	EACH	\$3 <sup>95</sup>
MODEL G8466	EACH	\$3 <sup>95</sup>
MODEL G8467	EACH	\$3 <sup>95</sup>

## BRASS SCREW BALL KNOBS

Inexpensive round profile brass ball knobs feature threaded studs.

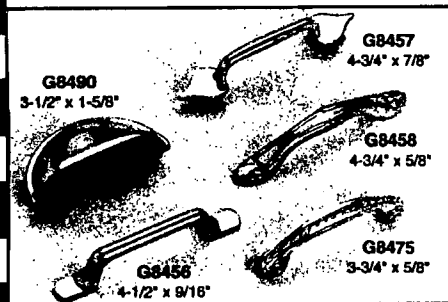


MODEL G8411	EACH	29¢
MODEL G8412	EACH	\$1 <sup>49</sup>
MODEL G8413	EACH	\$1 <sup>49</sup>
MODEL G8414	EACH	\$1 <sup>69</sup>
MODEL G8415	EACH	\$1 <sup>79</sup>

## HARDWARE

### SOLID BRASS DRAWER PULLS

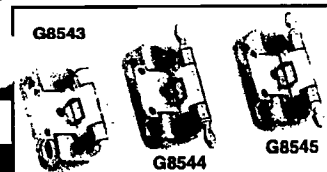
Solid brass drawer pulls have standard 3" hole patterns and include mounting screws.



MODEL G8456	EACH	\$7 <sup>95</sup>
MODEL G8457	EACH	\$7 <sup>95</sup>
MODEL G8458	EACH	\$7 <sup>95</sup>
MODEL G8475	EACH	\$7 <sup>95</sup>
MODEL G8490	EACH	\$12 <sup>95</sup>

### PARTIAL WRAP AROUND HINGES 3/8" INSET 1/2" OVERLAY

Mounting holes are slotted for easy adjustment after installation. Self closing style.

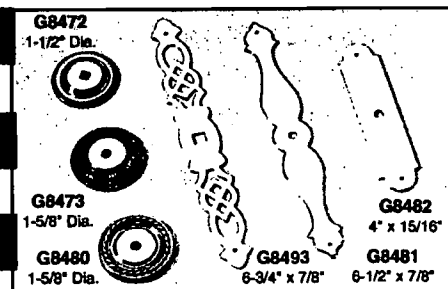


Sold in pairs, screws and pads included.

MODEL G8543	PAIR	\$6 <sup>95</sup>
MODEL G8544	PAIR	\$6 <sup>95</sup>
MODEL G8545	PAIR	\$6 <sup>95</sup>

### ROSETTES & BACK PLATES

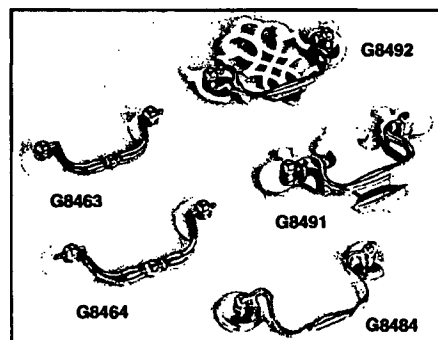
Solid brass rosettes and back plates add a luxurious dimension to brass knobs. Back plates include escutcheon pins.



Solid Brass Rosettes		
MODEL G8472	EACH	\$4 <sup>95</sup>
MODEL G8473	EACH	\$4 <sup>95</sup>
MODEL G8480	EACH	\$3 <sup>95</sup>
Solid Brass Knob Back Plates		
MODEL G8481	EACH	\$3 <sup>95</sup>
MODEL G8482	EACH	\$3 <sup>95</sup>
MODEL G8493	EACH	\$6 <sup>95</sup>

### SOLID BRASS BAILS

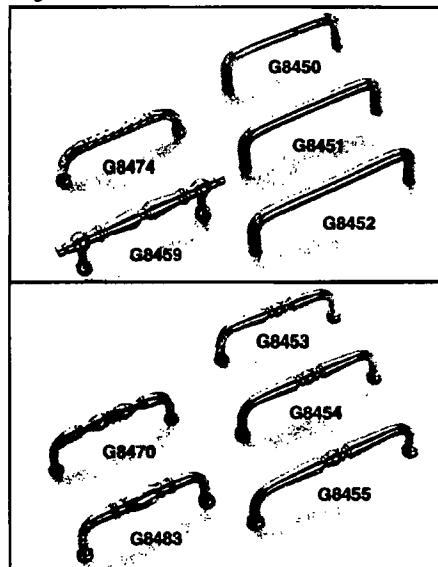
Solid brass period bails add elegance to any heirloom furniture. Choose from traditional style or brass and porcelain bails for a contemporary accent. Dimensions refer to mounting screw centers. Screws included.



Solid Brass Bails with Porcelain Rosettes			
MODEL G8463	2 1/2"	EACH	\$5 <sup>95</sup>
MODEL G8464	3"	EACH	\$6 <sup>95</sup>
Solid Brass Bails			
MODEL G8484	3"	EACH	\$5 <sup>95</sup>
MODEL G8491	3"	EACH	\$7 <sup>95</sup>
MODEL G8492	3"	EACH	\$9 <sup>95</sup>

### BRASS DRAWER PULLS

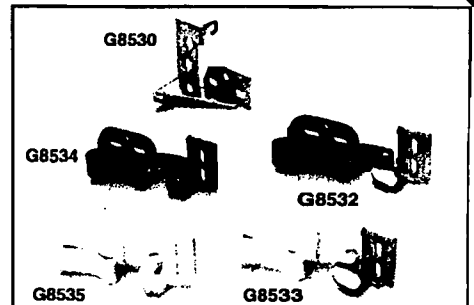
Elegant solid brass drawer pulls add class to any drawer. Dimensions refer to mounting screw centers. Screws included.



Solid Brass Drawer Pulls			
MODEL G8450	3"	EACH	\$2 <sup>95</sup>
MODEL G8451	3 1/2"	EACH	\$2 <sup>95</sup>
MODEL G8452	4"	EACH	\$2 <sup>95</sup>
MODEL G8453	3"	EACH	\$4 <sup>95</sup>
MODEL G8454	3 1/2"	EACH	\$4 <sup>95</sup>
MODEL G8455	4"	EACH	\$5 <sup>49</sup>
MODEL G8459	3"	EACH	\$5 <sup>95</sup>
MODEL G8470	3"	EACH	\$6 <sup>95</sup>
MODEL G8474	3"	EACH	\$5 <sup>49</sup>
MODEL G8483	3"	EACH	\$4 <sup>95</sup>

### KNIFE HINGES

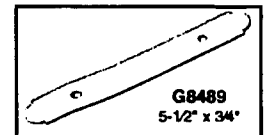
Knife hinges fit into a 3/32" dado cut in a 1/2" thick overlay door. Catch holds door closed. Includes screws.



3/4" Door Top/Bottom Pin Hinge		
MODEL G8530	PAIR	\$4 <sup>95</sup>
Marathon™ Knife Hinges		
MODEL G8532	PAIR	\$2 <sup>49</sup>
MODEL G8533	PAIR	\$2 <sup>49</sup>
MODEL G8534	PAIR	\$2 <sup>49</sup>
MODEL G8535	PAIR	\$2 <sup>95</sup>

### DRAWER PULL BACK PLATE

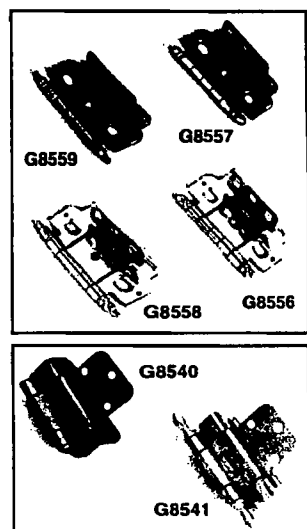
Solid brass back plate has 3" on center mounting holes for standard drawer pulls.



MODEL G8489	EACH	\$3 <sup>95</sup>
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### PARTIAL WRAP INSET HINGES

Use these hinges when mounting doors with a 3/8" or 3/4" inside lip. Available in antique or bright brass finishes. Self-closing. Sold in pairs, screws and cushion pads included.

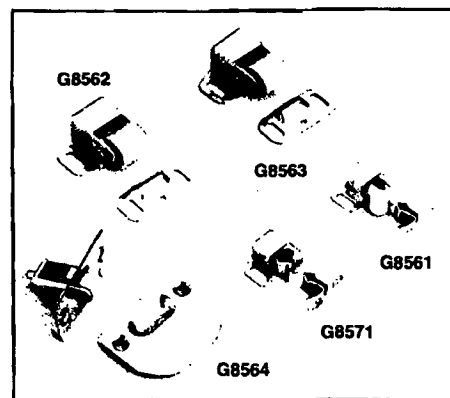
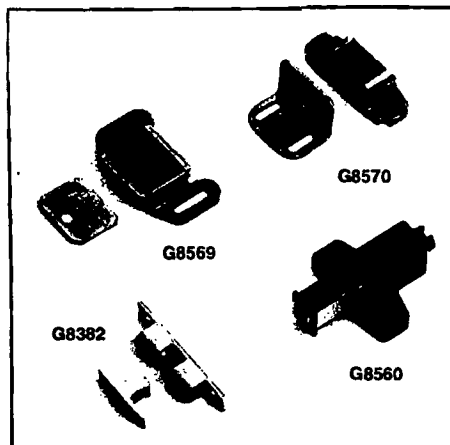


3/8" Inset			
MODEL G8540	1 1/4" Pin	PAIR	\$6 <sup>95</sup>
MODEL G8541	3" Pin	PAIR	\$6 <sup>95</sup>
3/4" Inset			
MODEL G8556	Ball	PAIR	\$3 <sup>49</sup>
MODEL G8557	Ball	PAIR	\$3 <sup>49</sup>
MODEL G8558	Minaret	PAIR	\$3 <sup>49</sup>
MODEL G8559	Minaret	PAIR	\$3 <sup>49</sup>

# HARDWARE

## CATCHES

This wide assortment includes two styles of magnetic catches, touch latch, solid brass ball catch, four styles of roller catches and a spring latch. All catches include striker plate. Great for keeping cabinet doors closed. All catches are concealed and mount inside the cabinet behind the doors. All Catches include mounting screws except Model G8382.

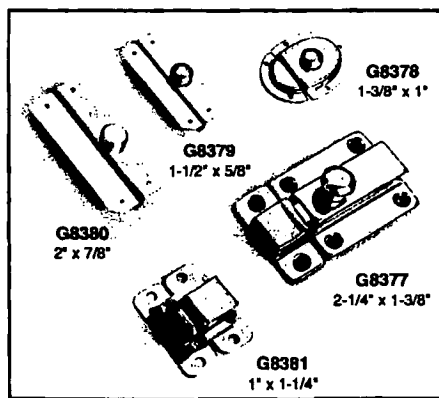
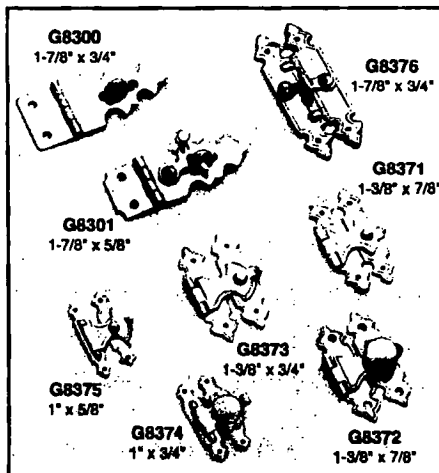


Ball Catch		
MODEL G8382	EACH	\$2 <sup>95</sup>
Touch Latch		
MODEL G8560	EACH	\$2 <sup>95</sup>
Roller Catch		
MODEL G8561	EACH	\$1 <sup>49</sup>
Roller Catch		
MODEL G8562	EACH	\$2 <sup>95</sup>
Roller Catch		
MODEL G8563	EACH	\$2 <sup>95</sup>
Roller Catch, Solid Brass		
MODEL G8564	EACH	\$5 <sup>95</sup>
Magnetic Catches		
MODEL G8569	EACH	\$1 <sup>29</sup>
MODEL G8570	EACH	\$2 <sup>49</sup>
Spring Grip Catch		
MODEL G8571	EACH	\$1 <sup>29</sup>

## HARDWARE

## LATCHES

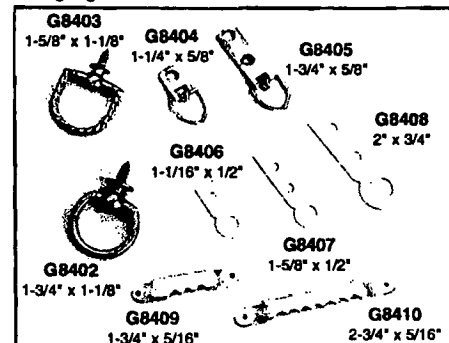
Scaled for small jewelry boxes and other items that require a secure and decorative latch. Sizes indicate overall length and width. Please note, these latches do not include escutcheon pins or small screws for mounting except Model G8377 which does come with mounting screws.



Hasps		
MODEL G8300	EACH	\$1 <sup>29</sup>
MODEL G8301	EACH	\$1 <sup>95</sup>
Brass Hinged Catches		
MODEL G8371	EACH	\$1 <sup>29</sup>
MODEL G8372	EACH	\$1 <sup>49</sup>
MODEL G8373	EACH	\$1 <sup>29</sup>
MODEL G8374	EACH	\$1 <sup>79</sup>
MODEL G8375	EACH	95¢
Catch		
MODEL G8376	EACH	\$1 <sup>29</sup>
Spring Slide Catches		
MODEL G8377	EACH	\$2 <sup>95</sup>
MODEL G8378	EACH	\$2 <sup>95</sup>
MODEL G8379	EACH	\$2 <sup>95</sup>
MODEL G8380	EACH	\$3 <sup>95</sup>
Snap Catch		
MODEL G8381	EACH	\$1 <sup>29</sup>

## HANGERS

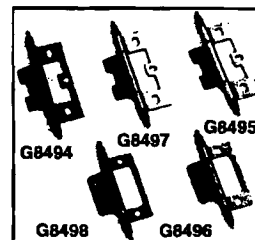
These multi-purpose hangers are perfect for picture frames and many types of hanging craft items. Screws not included.



Eye Screws		
MODEL G8402	Fixed	EACH 99¢
MODEL G8403	Swivel	EACH 99¢
Swivel Hangers		
MODEL G8404		EACH 29¢
MODEL G8405		EACH 29¢
Hanger Plates		
MODEL G8406		EACH 29¢
MODEL G8407		EACH 29¢
MODEL G8408		EACH 29¢
MODEL G8409		EACH 29¢
MODEL G8410		EACH 29¢

## NON-MORTISE HINGES

These hinges do not need a mortise cut, yet they give a tight fitting look on traditional style inset doors. Hinge leaves only a 1/16" gap between door and frame. Includes Screws. Sold in pairs.



3 1/2" Hinge Pin		
MODEL G8494	Dk. Ant. Brass	PAIR \$2 <sup>95</sup>
MODEL G8497	Bright Brass	PAIR \$2 <sup>49</sup>
MODEL G8495	Pewter	PAIR \$2 <sup>95</sup>
3" Hinge Pin		
MODEL G8498	Dk. Ant. Brass	PAIR \$2 <sup>49</sup>
MODEL G8496	Ant. Brass	PAIR \$2 <sup>95</sup>

## CYLINDER HINGES

Concealed Cylinder Hinges attach securely and easily, simply by drilling two holes.

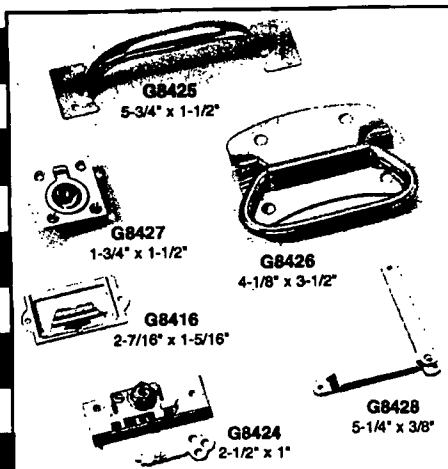


Mini Cylinder Brass Hinge		
MODEL G8324	3/16"	EACH \$1 <sup>79</sup>
MODEL G8325	1/4"	EACH \$1 <sup>89</sup>
Cylinder Brass Hinge		
MODEL G8326	10mm	EACH \$2 <sup>95</sup>

## HARDWARE

### CHEST HARDWARE

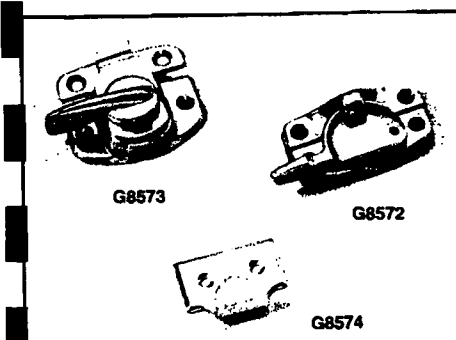
ow you can build that tool chest you've always wanted. All pieces are solid brass. G8427 Finger Pull is cast and finely polished. Screws not included except for Model G8427.



Card Holder		
MODEL G8416	EACH	49¢
Mortise Lock		
MODEL G8424	EACH	\$14 <sup>95</sup>
Chest Handle		
MODEL G8425	EACH	\$1 <sup>95</sup>
Chest Handle		
MODEL G8426	EACH	\$2 <sup>49</sup>
Finger Pull		
MODEL G8427	EACH	\$4 <sup>99</sup>
Lid Support		
MODEL G8428	EACH	\$4 <sup>99</sup>

### WINDOW SASH HARDWARE

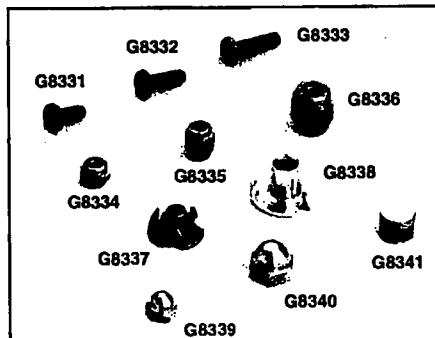
Restore wooden window sashes to working condition with these solid brass sash locks and lifts. Screws included.



Window Sash Locks		
MODEL G8572	EACH	\$3 <sup>49</sup>
MODEL G8573	EACH	\$3 <sup>49</sup>
Window Sash Lifts (Pair)		
MODEL G8574	PAIR	\$1 <sup>29</sup>

### MISCELLANEOUS HARDWARE

Select from this assortment of hardware for unique fastening situations.



#### Knurled Thumb Head Screws

MODEL G8331	3/8"	EACH	19¢
MODEL G8332	1/2"	EACH	19¢
MODEL G8333	5/8"	EACH	19¢

#### Knife Thread Inserts

MODEL G8334	1/4"	EACH	49¢
MODEL G8335	3/8"	EACH	59¢
MODEL G8336	1/2"	EACH	69¢

#### Pronged T-nuts

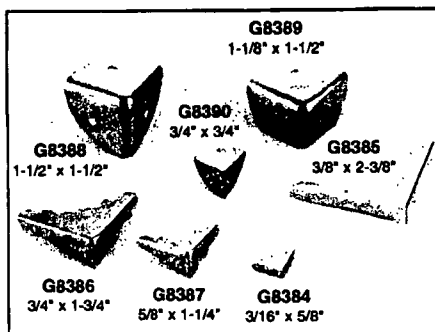
MODEL G8337	1/4"	EACH	24¢
MODEL G8338	7/16"	EACH	27¢

#### Solid Brass End Caps

MODEL G8339	#8 - 32	EACH	29¢
MODEL G8340	1/4" - 20	EACH	49¢
MODEL G8341	#8 - 32	EACH	49¢

### BOX AND TRAY CORNERS

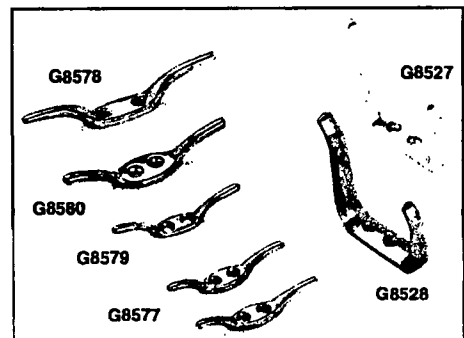
Add protection and beauty with these solid brass box and tray corners. Model G8383 wraps top and bottom. Screws or pins not included.



Tray Corners		
MODEL G8384	EACH	95¢
Box Corners		
MODEL G8385	EACH	95¢
MODEL G8386	EACH	\$1 <sup>29</sup>
MODEL G8387	EACH	95¢
MODEL G8388	EACH	\$1 <sup>29</sup>
MODEL G8389	EACH	\$1 <sup>29</sup>
MODEL G8390	EACH	95¢

### HOOKS & CLEATS

Handy coat and hat hooks and line cleats are great for just about anywhere. Choose from a variety of finishes. All include mounting screws.



#### Coat and Hat Hook, Brass Finish

MODEL G8527	EACH	\$1 <sup>29</sup>
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#### Coat and Hat Hook, Silver Finish

MODEL G8528	EACH	\$1 <sup>29</sup>
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#### Small Line Cleats (pair)

MODEL G8577	PAIR	\$1 <sup>49</sup>
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#### Large Line Cleat

MODEL G8578	EACH	\$1 <sup>49</sup>
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#### Small Line Cleat, Solid Brass

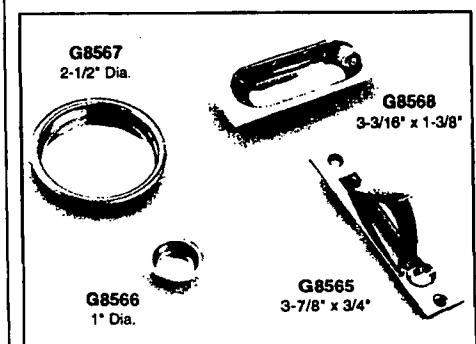
MODEL G8579	EACH	\$1 <sup>95</sup>
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#### Large Line Cleat, Solid Brass

MODEL G8580	EACH	\$1 <sup>95</sup>
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### FINGER PULLS

Choose from a variety of flush mounted finger pulls including a solid brass, spring action pull that conceals in the edge of a sliding door. G8565 and G8568 include screws. G8567 includes pins.

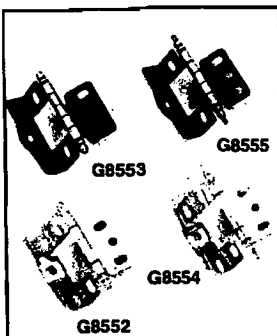


Door Edge Pull, Solid Brass		
MODEL G8565	EACH	\$5 <sup>95</sup>
Small Flush Pull, Solid Brass		
MODEL G8566	EACH	\$1 <sup>95</sup>
Large Flush Pull, Solid Brass		
MODEL G8567	EACH	\$2 <sup>49</sup>
Square Flush Pull, Solid Brass		
MODEL G8568	EACH	\$2 <sup>49</sup>

# HARDWARE

## FULL WRAP 3/4" INSET HINGES

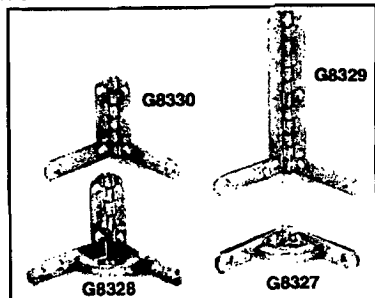
Wraps around the back of the door and the frame. Great for mounting 3/4" heavy doors. Choose bright brass or antique brass with two different styles of hinge pins. Screws included.



MODEL G8552	Ball	EACH	\$3 <sup>49</sup>
MODEL G8553	Ball	EACH	\$3 <sup>49</sup>
MODEL G8554	Minaret	EACH	\$3 <sup>49</sup>
MODEL G8555	Minaret	EACH	\$3 <sup>49</sup>

## 100° BOX HINGES

Three styles of quadrant hinge and one side rail hinge provide great choices for that jewelry box or humidor project. Two models have brass stays, all open to a maximum 100°. Polished brass finish. Screws not included.



Hinge w/ Stays

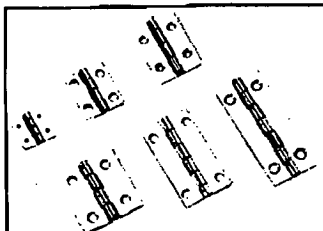
MODEL G8327	1 1/2"	EACH	\$1 <sup>99</sup>
MODEL G8328	1 5/8" x 1 1/2"	EACH	\$2 <sup>49</sup>

Stop Hinges

MODEL G8329	1 1/2" x 3"	EACH	\$3 <sup>95</sup>
MODEL G8330	1 1/2" x 1 1/2"	EACH	\$3 <sup>95</sup>

## SPECIALTY BRASS HINGES

Small brass hinges are perfect for boxes. Sizes shown are open width and length.

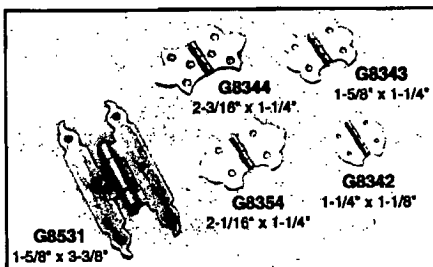


MODEL G8355	1/2" x 1/2"	EACH	79¢
MODEL G8356	3/4" x 1 1/4"	EACH	79¢
MODEL G8357	3/4" x 1"	EACH	79¢
MODEL G8358	3/4" x 1 3/8"	EACH	79¢
MODEL G8359	3/4" x 1 1/4"	EACH	79¢
MODEL G8360	1 5/16" x 1"	EACH	89¢

## HARDWARE

### BUTTERFLY HINGES

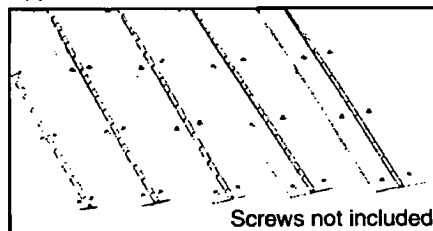
Decorative hinges for box lids and cabinet doors. Screws not included except G8531 includes two hinges and matching screws.



MODEL G8342	EACH	89¢
MODEL G8343	EACH	89¢
MODEL G8344	EACH	99¢
MODEL G8354	EACH	\$1 <sup>49</sup>
MODEL G8531	PAIR	\$4 <sup>95</sup>

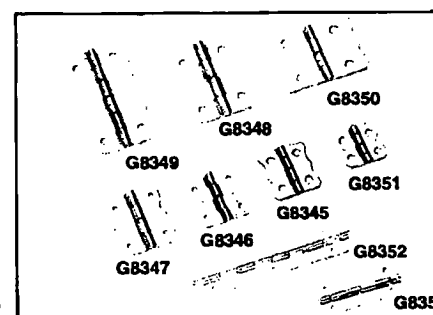
### BRASS PIANO HINGES

Solid brass piano hinges with bright finish. Size shown is open width by length. Approx. 2 1/4" on-center hole spacing.



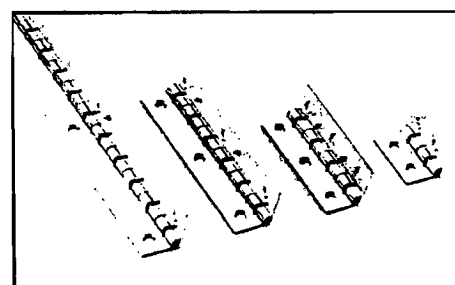
MODEL G8309	1/2" x 12"	EACH	\$3 <sup>95</sup>
MODEL G8310	1/2" x 24"	EACH	\$6 <sup>95</sup>
MODEL G8311	1/2" x 36"	EACH	\$8 <sup>95</sup>
MODEL G8312	3/4" x 12"	EACH	\$3 <sup>95</sup>
MODEL G8313	3/4" x 24"	EACH	\$7 <sup>95</sup>
MODEL G8314	3/4" x 36"	EACH	\$8 <sup>95</sup>
MODEL G8315	1" x 12"	EACH	\$3 <sup>95</sup>
MODEL G8316	1" x 24"	EACH	\$7 <sup>95</sup>
MODEL G8317	1" x 36"	EACH	\$8 <sup>95</sup>
MODEL G8318	1 1/4" x 12"	EACH	\$4 <sup>95</sup>
MODEL G8319	1 1/4" x 24"	EACH	\$8 <sup>95</sup>
MODEL G8320	1 1/4" x 36"	EACH	\$9 <sup>95</sup>
MODEL G8321	1 1/2" x 12"	EACH	\$4 <sup>95</sup>
MODEL G8322	1 1/2" x 24"	EACH	\$9 <sup>95</sup>
MODEL G8323	1 1/2" x 36"	EACH	\$10 <sup>95</sup>

### JEWELRY BOX HINGES



### CONTINUOUS STOP HINGES

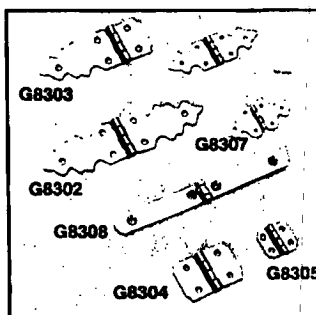
Similar to piano hinges, but they stopped at a 100° opening. 1/2" wide on each side of hinge. Screws not included.



MODEL G8361	1"	EACH	\$1 <sup>49</sup>
MODEL G8362	2"	EACH	\$1 <sup>49</sup>
MODEL G8363	3"	EACH	\$1 <sup>79</sup>
MODEL G8364	4"	EACH	\$2 <sup>29</sup>
MODEL G8365	6"	EACH	\$2 <sup>49</sup>
MODEL G8366	8"	EACH	\$2 <sup>95</sup>
MODEL G8367	10"	EACH	\$3 <sup>95</sup>
MODEL G8368	12"	EACH	\$4 <sup>95</sup>
MODEL G8369	18"	EACH	\$6 <sup>95</sup>
MODEL G8370	24"	EACH	\$7 <sup>95</sup>

### FANCY HINGES

Ornate and functional hinge designs put a great finishing touch on your project. Screws not included.



MODEL G8302	2 3/4" x 5/8"	EACH	\$1 <sup>29</sup>
MODEL G8303	1 3/4" x 5/8"	EACH	\$1 <sup>29</sup>
MODEL G8304	1 5/16" x 5/8"	EACH	\$1 <sup>29</sup>
MODEL G8305	1 1/2" x 1/2"	EACH	\$1 <sup>29</sup>
MODEL G8306	1 1/8" x 1/2"	EACH	\$1 <sup>29</sup>
MODEL G8307	1 1/8" x 1/2"	EACH	\$1 <sup>29</sup>
Cigar Box Hinge			
MODEL G8308	3" x 5/16"	EACH	\$1 <sup>95</sup>

Models G8345 to G8351 have delicate scalloped edges to add that fine detail to your jewelry box project.

MODEL G8345	7/16" x 5/8"	ONLY	89¢
MODEL G8346	5/8" x 5/8"	ONLY	89¢
MODEL G8347	5/8" x 3/4"	ONLY	89¢
MODEL G8348	3/4" x 1"	ONLY	7¢
MODEL G8349	3/4" x 1 1/16"	ONLY	7¢
MODEL G8350	1 1/8" x 3/4"	ONLY	89¢
MODEL G8351	1/2" x 1/2"	ONLY	79¢
MODEL G8352	3/8" x 1"	ONLY	\$1 <sup>29</sup>
MODEL G8353	3/8" x 2"	ONLY	\$1 <sup>69</sup>

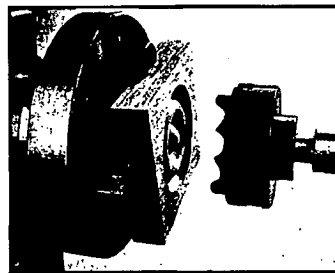
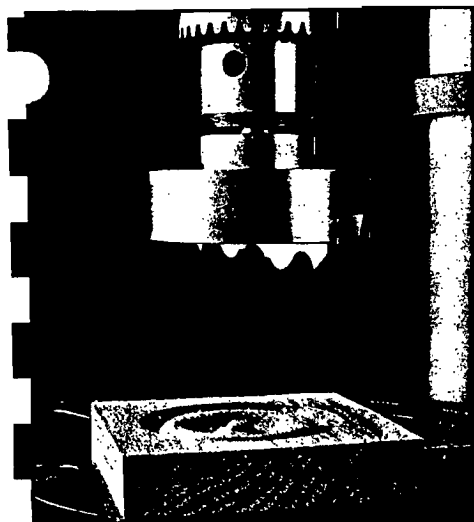


# ROSETTE CUTTERHEAD & KNIVES




























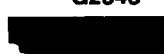
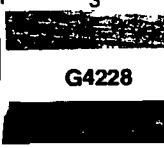
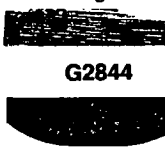
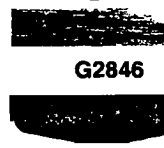
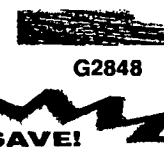

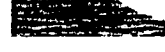
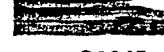



**ROSETTE  
CUTTERHEAD**

This uniquely designed cutterhead allows you to either chuck it into your drill press or lathe using the 1/2" shank provided or mount it directly into your spindle taper using the optional arbors. Make complex profile rosettes, raised panels, etc.

<b>MODEL G2830</b>	Cutterhead	<b>EACH \$29<sup>95</sup></b>
<b>MODEL G1434</b>	Arbor M.T. #2 x J.T. 6	<b>EACH \$7<sup>95</sup></b>
<b>MODEL G1436</b>	Arbor M.T. #3 x J.T. 6	<b>EACH \$7<sup>95</sup></b>



**ROSETTE KNIVES  
ANY PROFILE  
EACH \$19<sup>95</sup>**

 2 3/4"	 2 1/2"	 2 1/2"	 2 1/4"
 <b>G2833</b>	 <b>G2832</b>	 <b>G2834</b>	 <b>G2836</b>
 2 1/2"	 2 3/4"	 2 1/4"	 2 1/2"
 <b>G2835</b>	 <b>G2838</b>	 <b>G2839</b>	 <b>G2837</b>
 3"	 2 5/8"	 2 1/2"	 2 1/2"
 <b>G2841</b>	 <b>G2840</b>	 <b>G2842</b>	 <b>G2843</b>
 3"	 3"	 2 3/4"	 2 13/16"
 <b>G4228</b>	 <b>G2844</b>	 <b>G2846</b>	 <b>G2848</b>
 3"	 2 3/4"	 2 1/4"	
 <b>G2831</b>	 <b>G2847</b>	 <b>G2845</b>	



**CALL 24 HOURS A DAY FROM ANYWHERE IN THE U.S.A. 1-800-523-4777**

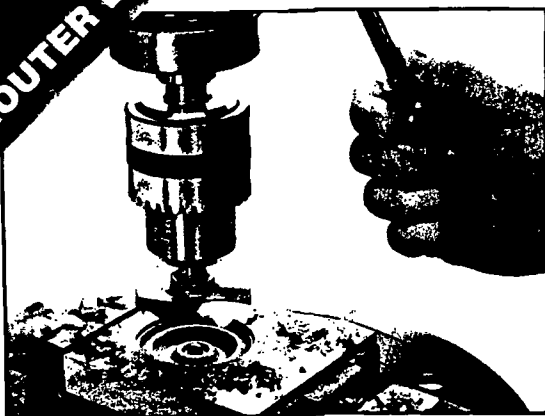
**ROUTER BITS**

## 2 1/8" DIAMETER ROSETTE CUTTERS

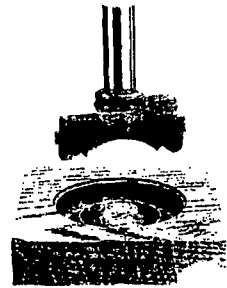
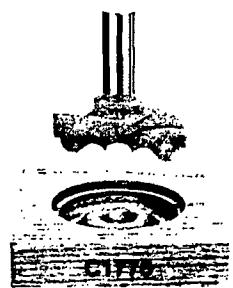
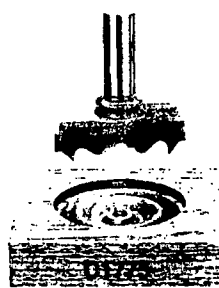
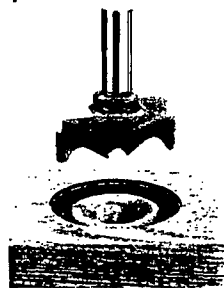
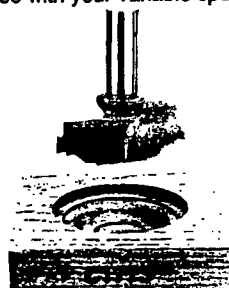
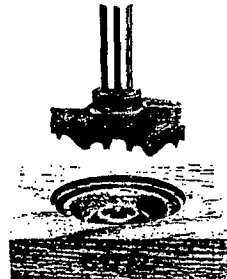
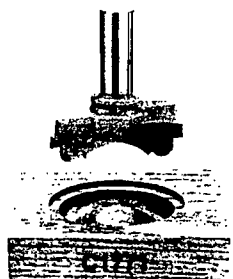
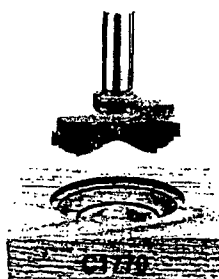
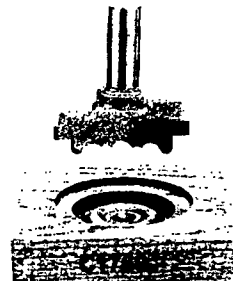
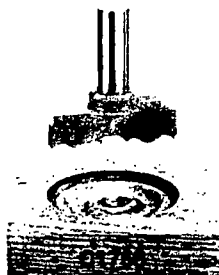
MADE IN  
ISO 9002  
RATED FACTORY

**Grizzly®**

ONLY  
**\$39.95** EA  
YOUR CHOICE



Milled from a solid steel blank, these Grizzly® carbide-tipped, 1/2" shank rosette cutters make crisp rosettes in most hardwoods and softwoods. Please note, although these cutters look like oversized router bits, they are too big for normal router speeds and are designed for use with your variable speed drill press or lathe.



### 8-PC. STRAIGHT BIT SET

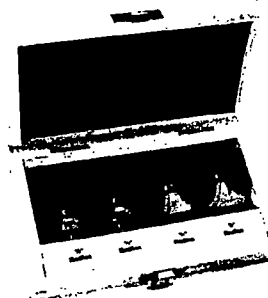
Never be at a loss for the right sized carbide straight bit for your project needs. This complete set contains 1/8", 1/4", 3/8", 1/2", 5/8", 3/4", 7/8" (2) and 1 1/8". Shank size 1/2". Includes wooden case.



MODEL G8823 ONLY \$39.95

### 4-PC. ROUNDROVER ANTI-KICKBACK ROUTER BIT SETS

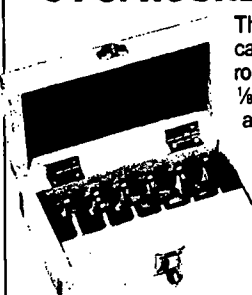
The most popular roundrover sizes in one set. Includes 1/8", 1/4", 3/8" and 1/2". Complete with wooden box.



MODEL C1780 1/4" Shank ONLY \$39.95  
MODEL C1781 1/2" Shank ONLY \$39.95

### 6-PC. ROUNDROVER SET

This complete set of carbide, double fluted roundrover bits contains 1/8", 1/4", 3/8", 1/2", 5/8", 3/4", 7/8" (2) and 1 1/8". Shank size is 1/2". All sizes have a 3/8" guide bearing. Includes latching wooden case.



MODEL G8824 ONLY \$42.95

### 4-PC. ANTI-KICKBACK CLASSICAL BIT SET

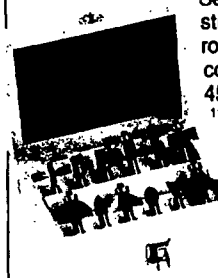
We've packaged four of our most popular classical router bit profiles together in a wooden box so you'll always have the correct bit for most any classical application. Each router bit features a solid anti-kickback body. Includes C1751, C1755, C1759 and C1747.



MODEL C1784 1/4" Shank ONLY \$89.95  
MODEL C1785 1/2" Shank ONLY \$89.95

### 12-PC. ROUTER BIT SET

Set contains 1/4", 1/2", 3/4" straight, 8" dovetail, 1/2" roundnose, 1/2" rabbeting, 1/2" cove, 1/2" 90° V-groove, 1/2" 45° chamfer, 1/2" flush trim, 1 1/2" hole and flush trim and 1/2" roundrover. Shank size 1/2". Includes case.



MODEL G8825 ONLY \$59.95

### 20-PC. ANTI-KICKBACK ROUTER BIT SETS

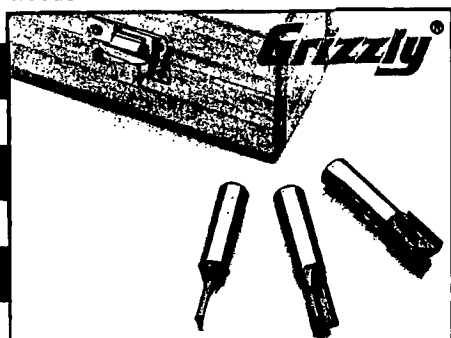
1/4" set includes: Flush Trim, Roman Ogee, 1/4", 3/8", 1/2", 3/4" Straight, 45° Chamfer, 1/8", 1/4", 3/8" Roundrover, 1/4", 1/2" Rabbeting, 3/8", 1/2" Dovetail, 1/4", 3/8" Cove, 3/8" Core Box, 3/8" Key-Hole, Panel Bit, 3/8" V-Groove and wooden box. 1/2" set includes: Flush Trim, Roman Ogee, 1/4", 3/8", 1/2", 3/4" Straight, 45° Chamfer, 1/8", 1/4", 3/8" Roundrover, 1/4", 1/2" Rabbeting, 1/2", 3/4" Dovetail, 1 1/2" 3/8" Cove, 3/8" Core Box, Panel Bit, 1/4" V-Groove and wooden box.



MODEL C1782 1/4" Shank ONLY \$169.95  
MODEL C1783 1/2" Shank ONLY \$169.95

### 3-PC. PLYWOOD STRAIGHT BIT SET

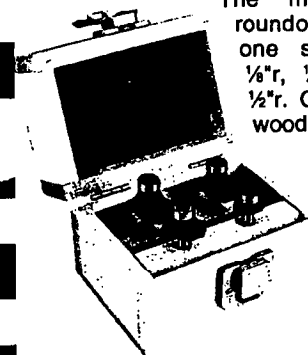
Make your dados fit better with these straight bits sized for modern plywood. Each set includes:  $\frac{7}{32}$ ",  $\frac{15}{32}$ " and  $\frac{29}{32}$ " and wooden box.



MODEL C1702  $\frac{1}{4}$ " Shank ONLY \$19<sup>95</sup>  
MODEL C1703  $\frac{1}{2}$ " Shank ONLY \$19<sup>95</sup>

### 4-PC. ROUNDROVER SET

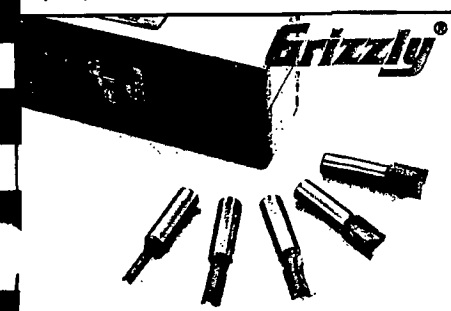
The most popular roundover sizes in one set. Includes  $\frac{1}{8}$ "r,  $\frac{1}{4}$ "r,  $\frac{3}{8}$ "r and  $\frac{1}{2}$ "r. Complete with wooden box.



$\frac{1}{4}$ " Shank  
MODEL G8140 ~~\$34<sup>95</sup>~~ ONLY \$19<sup>95</sup>  
 $\frac{1}{2}$ " Shank  
MODEL G8141 ~~\$34<sup>95</sup>~~ ONLY \$19<sup>95</sup>

### 5-PC. STRAIGHT BIT SET

Everyone has been after us to put our famous Grizzly® straight bits into a set — and now we have! Each set includes:  $\frac{1}{4}$ ",  $\frac{3}{8}$ ",  $\frac{1}{2}$ ",  $\frac{5}{8}$ " and  $\frac{3}{4}$ " and wooden box.

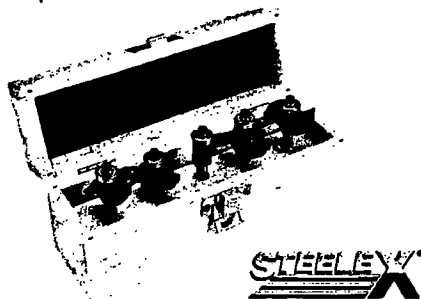


MODEL C1700  $\frac{1}{4}$ " Shank ONLY \$24<sup>95</sup>  
MODEL C1701  $\frac{1}{2}$ " Shank ONLY \$24<sup>95</sup>

## ROUTER BIT SETS

### 5-PC. EDGE FORMING SET

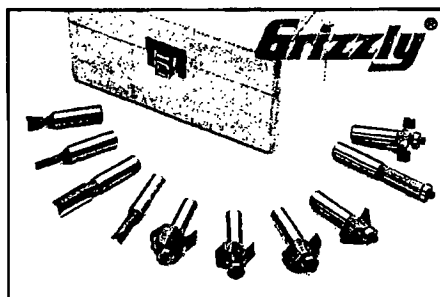
Set includes five versatile edge-forming bits:  $\frac{1}{2}$ " Flush Trim,  $\frac{3}{8}$ "r Roundover,  $\frac{5}{32}$ " Roman Ogee, 45° Chamfer and  $\frac{3}{4}$ " Rabbet. Complete with wooden box.



MODEL C1708  $\frac{1}{4}$ " Shank ONLY \$49<sup>95</sup>  
MODEL C1788  $\frac{1}{2}$ " Shank ONLY \$49<sup>95</sup>

### 10-PC. GENERAL PURPOSE SET

The most widely used router bits at the most economical price. Top quality bits. Set includes one each of: C1001  $\frac{1}{4}$ " Straight, C1003  $\frac{3}{8}$ " Straight, C1004  $\frac{1}{2}$ " Straight, C1044  $\frac{3}{8}$ " Rabbeting Bit, C1069  $\frac{1}{2}$ " Dovetail, C1080  $\frac{1}{2}$ " Flush Trim, C1129 45° Chamfer, C1143  $\frac{3}{8}$ "r Cove, C1154  $\frac{1}{4}$ " Roman Ogee and C1179  $\frac{3}{8}$ "r Roundover. Complete with beautiful wooden case.



MODEL C1638  $\frac{1}{4}$ " Shank ONLY \$94<sup>95</sup>  
MODEL C1639  $\frac{1}{2}$ " Shank ONLY \$94<sup>95</sup>

### ROUTER PADS

Natural rubber pads eliminate holding or clamping work while routing or sanding. Can be easily rolled up and stored when not in use.  $\frac{1}{8}$ " x 24" x 36".



MODEL G1530 Tan EACH \$7<sup>95</sup>  
MODEL G2987 Black EACH \$7<sup>95</sup>  
MODEL G2988 Gray EACH \$7<sup>95</sup>  
Buy 3 or more pads EACH \$6<sup>95</sup>

### 15-PC. ROUTER BIT SET

This is one outstanding value: A 15 piece, carbide-tipped router bit set for under \$60. Set features  $\frac{3}{8}$ "r Roundover,  $\frac{1}{2}$ "r Cove,  $\frac{5}{32}$ "r Roman Ogee,  $\frac{3}{4}$ " Slot Cutter,  $\frac{1}{2}$ " Trim,  $\frac{3}{4}$ " x  $\frac{3}{4}$ " Straight,  $\frac{1}{4}$ " x  $\frac{3}{4}$ " Straight,  $\frac{1}{2}$ " x 1" Straight,  $\frac{1}{2}$ " Hinge Mortise, 7° Dovetail,  $\frac{1}{4}$ " Combination Panel, 90° V-Groove, 45° Chamfer, Solid Carbide Flush Trim and Solid Carbide Bevel Trim. Complete with wooden box.

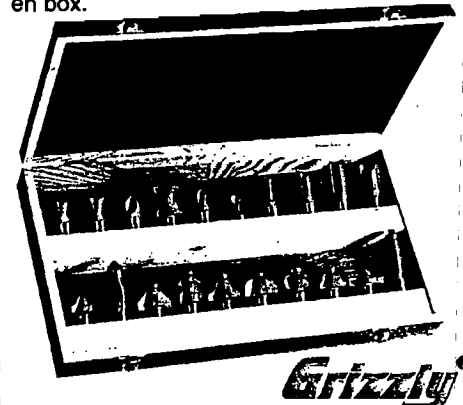


$\frac{1}{4}$ " Shank  
MODEL C1710 ~~\$59<sup>95</sup>~~ ONLY \$49<sup>95</sup>  
 $\frac{1}{2}$ " Shank  
MODEL C1786 ~~\$59<sup>95</sup>~~ ONLY \$54<sup>95</sup>

### 20-PC. SUPER SET

THIS IS AN UNBELIEVABLE BUY!

$\frac{1}{4}$ " shank includes:  $\frac{3}{4}$ " fingernail,  $\frac{1}{4}$ ",  $\frac{3}{8}$ ",  $\frac{1}{2}$ " &  $\frac{3}{4}$ " straight,  $\frac{1}{4}$ " panel pilot,  $\frac{3}{8}$ " keyhole,  $\frac{3}{4}$ " classical plunge,  $\frac{1}{2}$ " V-groove,  $\frac{3}{8}$ " round nose,  $\frac{3}{8}$ " &  $\frac{1}{2}$ " dovetail,  $\frac{3}{8}$ " trim bit,  $\frac{3}{8}$ " chamfer,  $\frac{1}{2}$ " roman ogee,  $\frac{3}{8}$ " roundover,  $\frac{3}{8}$ " cove,  $\frac{5}{16}$ " edge beading,  $\frac{1}{2}$ " fluting,  $\frac{1}{4}$ " rabbeting.  $\frac{1}{2}$ " shank includes:  $\frac{3}{4}$ " fingernail,  $\frac{1}{4}$ ",  $\frac{3}{8}$ ",  $\frac{1}{2}$ " &  $\frac{3}{4}$ " straight,  $\frac{1}{2}$ " panel pilot,  $\frac{3}{8}$ " keyhole,  $\frac{3}{4}$ " classical plunge,  $\frac{1}{2}$ " V-groove,  $\frac{3}{8}$ " round nose,  $\frac{3}{8}$ " &  $\frac{1}{2}$ " dovetail,  $\frac{1}{2}$ " trim bit,  $\frac{3}{8}$ " chamfer,  $\frac{1}{2}$ " roman ogee,  $\frac{3}{8}$ " roundover,  $\frac{3}{8}$ " cove,  $\frac{5}{16}$ " edge beading,  $\frac{1}{2}$ " fluting,  $\frac{1}{4}$ " rabbeting. Complete with wooden box.



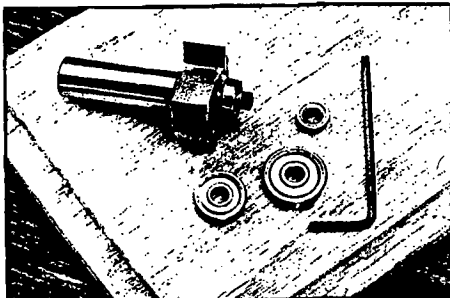
PRICE REDUCED! WAS \$199<sup>95</sup>

MODEL C1678  $\frac{1}{4}$ " Shank ONLY \$169<sup>95</sup>  
MODEL C1679  $\frac{1}{2}$ " Shank ONLY \$169<sup>95</sup>

# Grizzly® ROUTER BITS

## RABBETING KIT

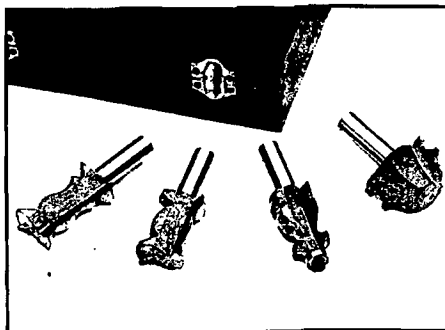
Includes Grizzly® carbide rabbeting bit, bearings in  $\frac{3}{8}$ ",  $\frac{1}{2}$ ",  $\frac{5}{8}$ ", and  $\frac{3}{4}$ " hex key and Allen screw. Makes rabbets  $\frac{7}{16}$ ",  $\frac{3}{8}$ ",  $\frac{5}{16}$ ", and  $\frac{1}{4}$ " wide.



**MODEL C1669**  $\frac{1}{4}$ " Shank ONLY \$29<sup>95</sup>  
**MODEL C1670**  $\frac{1}{2}$ " Shank ONLY \$29<sup>95</sup>

## CUSTOM MOULDING SET

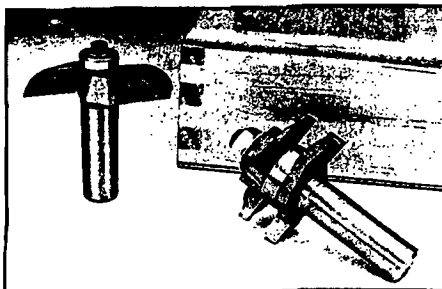
Make all the custom moulding you want with this four piece set: C1383 Face Mould, C1390 Multi Form, C1524 Crown Mould and C1528 Cove Mould. Complete with wooden box.



**MODEL C1646**  $\frac{1}{2}$ " Shank ONLY \$119<sup>95</sup>

## 2-PC. RAISED PANEL SET

Reversible Roman ogee stile and rail bit handles stock from  $\frac{1}{16}$ " to  $\frac{3}{8}$ " thick. Raised panel bit produces convex profile and is 2" in diameter. Each bit has a nine ball bearing guide. Cannot be interchanged with other reversible stile and rail bits and panel cutters.

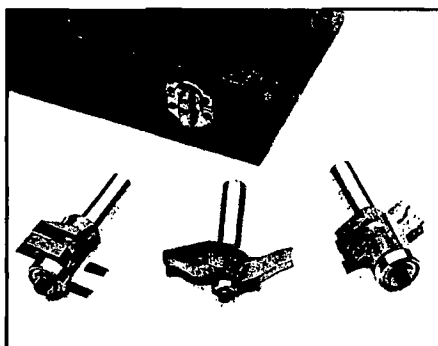
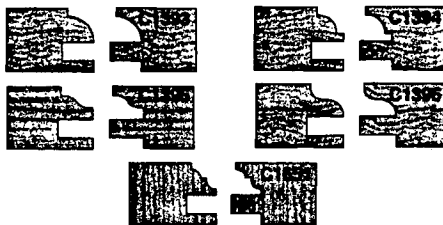


**MODEL C1790**  $\frac{1}{2}$ " Shank ONLY \$49<sup>95</sup>

## ROUTER BIT SETS

### RAISED PANEL SETS

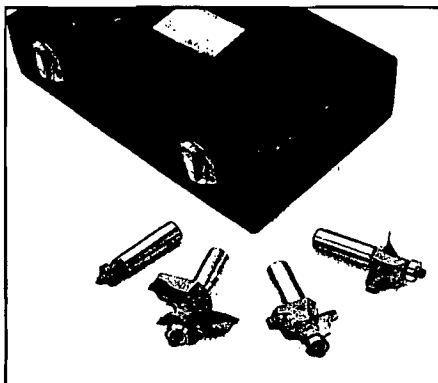
Our most popular cabinet door router bits are now available as sets. Three bits are protected in a quality, handcrafted wooden case! These are the same bits found on pages 290 and 294.  $\frac{1}{2}$ " Shank. **VERY POPULAR!**



Set #1 - C1399 5° Face Cut & C1393 Quarter Round  
**MODEL C1640** ONLY \$124<sup>95</sup>  
Set #2 - C1400 15° Face Cut & C1394 Quarter Bead  
**MODEL C1641** ONLY \$124<sup>95</sup>  
Set #3 - C1401 Ogee & C1395 Roman Ogee  
**MODEL C1642** ONLY \$124<sup>95</sup>  
Set #4 - C1402 12° Face / Quart. Round & C1396 Ogee  
**MODEL C1643** ONLY \$124<sup>95</sup>  
Set #5 - C1403 Convex & C1651 Classical  
**MODEL C1644** ONLY \$124<sup>95</sup>

### CLASSICAL BIT SET

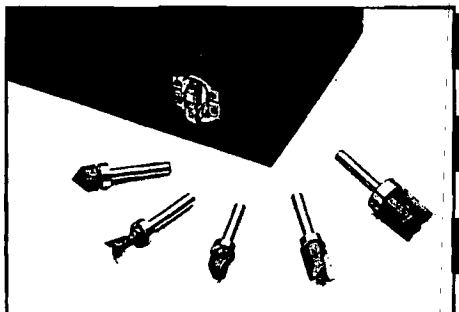
These four bits will enable you to make so many different profiles you won't have enough projects to use them all! Set includes one of each: C1292, C1302, C1424, C1655. Complete with wooden box.



**MODEL C1645**  $\frac{1}{2}$ " Shank ONLY \$89<sup>95</sup>

### PATTERN BIT SET

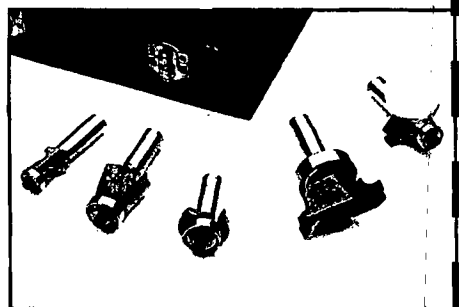
Top mounted bearings make pattern routing a breeze. Set includes: C16 V-Groove, C1660  $\frac{1}{2}$ " Dovetail, C16 Core Box, C1306  $\frac{1}{2}$ " Straight, C1308  $\frac{3}{4}$ " Straight and  $\frac{1}{2}$ " collet adapter. Complete with wooden box.



**MODEL C1675**  $\frac{1}{4}$ " Shank ONLY \$59<sup>00</sup>

### SOLID SURFACE TRIM SET

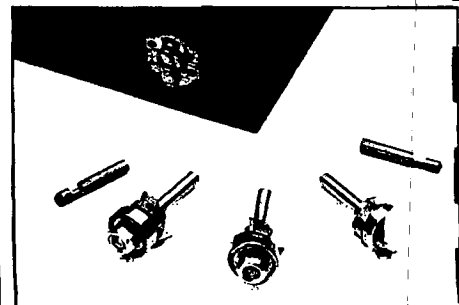
These extremely popular bits are now available as a set. Set includes: C1500 No-Drip Edge, C1502 Round Edge, C1504 Inlay, C1664 Bevel and C1662 Under Roundover. Complete with wooden box.



**MODEL C1677**  $\frac{1}{2}$ " Shank ONLY \$99<sup>00</sup>

### PROFESSIONAL LAMINATE TRIM SET

If you do a lot of laminate work, or even a little, this handy set has all the cutters you will ever need. The set includes: C1456 Solid Carbide Bevel, C1455 Solid Carbide Straight, C1089 3-Wing Flush, C1090 15° Bevel and C1091 25° Bevel.



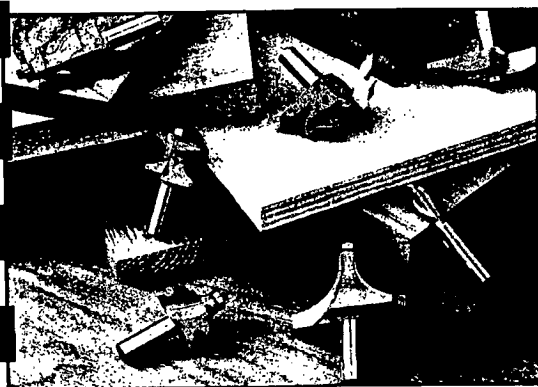
**MODEL C1676**  $\frac{1}{4}$ " Shank ONLY \$57<sup>95</sup>

MADE IN ISO 9002  
RATED FACTORY

## INDUSTRIAL QUALITY CARBIDE TIPPED ROUTER BITS

**BUY 10 OR MORE ROUTER BITS OR SHAPER CUTTERS AND DEDUCT 10%**  
ROUTER BITS SHOWN AT APPROXIMATELY 50% SCALE

**Grizzly®  
ROUTER BITS**



We probably have the largest selection of router bits and shaper cutters you'll find. For years, serious craftsmen have depended on the legendary Grizzly® industrial carbide router and shaper cutters for precision milling and molding applications.

Grizzly® cutters feature top-quality carbide – the best available for wood cutting applications. Shaped and sharpened with diamond wheels as fine as 600 grit, these outstanding shaper cutters and router bits are constructed with a high-tensile, silver-based brazing material, which offers the utmost in strength and durability. If you haven't tried these premium bits and cutters, we invite you to put them to the test. Please note, these are the same great bits and cutters that we've sold for years, however, we're in the process of changing to our new green color.

Router bit sets have already been discounted and are not included in the special quantity discount. **MANUFACTURED IN AN ISO 9002 APPROVED FACTORY!**



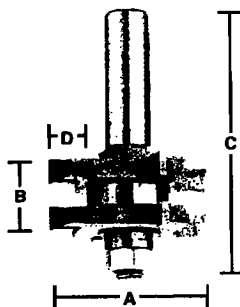
**CHECK OUT THE NEW  
SUPER-DUTY ROUTER BITS  
ON PAGES 298-301.**

**THESE ARE THE BEST BITS MONEY CAN BUY!**



### TONGUE & GROOVE KIT

Kit includes: Arbor, 2 cutters, 2 bearings and shim set.

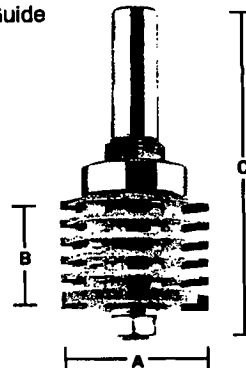
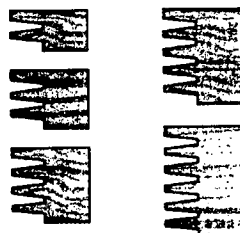


Tongue & Groove Kit  
MODEL C1665  
ONLY \$47.95

1/2" SHANK					
MODEL	CUTTER DIA. A	CUTTING LENGTH B	OVERALL LENGTH C	CUTTING DEPTH D	PRICE
C1665	1-3/4"	3/4"	3"	7/16"	\$47.95
C1666	Replacement Cutter				\$19.95
C1667	1/2" Arbor with nut				\$4.95
C1668	Shim Set				\$4.95
G3845	Bearing – 22mm x 8mm				\$6.95

### ADJUSTABLE FINGER JOINT BIT with Bearing Guide

For 7/16" to 1 1/8" stock.

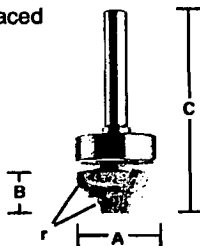


MODEL C1682  
ONLY \$64.95

1/2" SHANK				
MODEL	CUTTER DIA. A	CUTTING LENGTH B	OVERALL LENGTH C	PRICE
C1682	1-9/16"	1-1/4"	3-1/2"	\$64.95
C1683	Replacement Finger Cutter			\$10.95
C1684	Replacement Bottom Cutter			\$10.95
G3858	Replacement Bearing 28mm x 8mm			\$5.95
C1685	Replacement 1/2" Arbor			\$9.95
C1686	3.6mm Spacer Set (6)			\$5.95
C1687	.002" Shim (3) - .10mm			\$1.95
C1688	.036" Shim (3) - .5mm			\$1.95

### CLASSICAL PLUNGE PATTERN BITS with Bearing Guide

For routing when the template is placed on top of the workpiece.

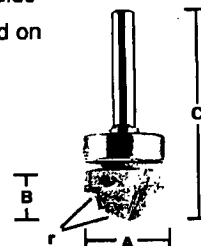
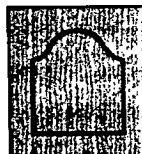


Order G3845 replacement bearing for C1673.  
Order G3850 replacement bearing for C1674.

1/4" SHANK						
MODEL	CUTTER DIA. A	CUTTING LENGTH B	OVERALL LENGTH C	r <sup>1</sup>	r <sup>2</sup>	PRICE
C1673	7/8"	3/8"	2"	3/32"	3/32"	\$24.95
1/2" SHANK						
MODEL	CUTTER DIA. A	CUTTING LENGTH B	OVERALL LENGTH C	r <sup>1</sup>	r <sup>2</sup>	PRICE
C1674	1-3/8"	9/16"	2-5/8"	13/64"	13/64"	\$24.95

### CLASSICAL PLUNGE PATTERN BITS with Bearing Guide

For routing when the template is placed on top of the workpiece.



Order G3845 replacement bearing for C1680.  
Order G3850 replacement bearing for C1681.

1/4" SHANK						
MODEL	CUTTER DIA. A	CUTTING LENGTH B	OVERALL LENGTH C	r <sup>1</sup>	r <sup>2</sup>	PRICE
C1680	7/8"	1/2"	2"	7/32"	5/32"	\$24.95
1/2" SHANK						
MODEL	CUTTER DIA. A	CUTTING LENGTH B	OVERALL LENGTH C	r <sup>1</sup>	r <sup>2</sup>	PRICE
C1681	1-3/8"	9/16"	2-5/8"	13/32"	1/4"	\$24.95

**CALL 24 HOURS A DAY FROM ANYWHERE IN THE U.S.A. 1-800-523-4777**

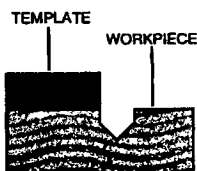
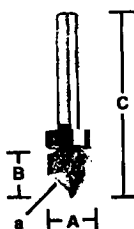
# INDUSTRIAL QUALITY CARBIDE TIPPED ROUTER BITS

MADE IN ISO 9002  
RATED FACTORY

**BUY 10 OR MORE ROUTER BITS OR SHAPER CUTTERS AND DEDUCT 10%**  
ROUTER BITS SHOWN AT APPROXIMATELY 50% SCALE

## 90° V-GROOVE PATTERN BIT with Guide Bearing

For use when template is on top of the workpiece. Great for veining V-grooves.

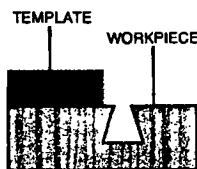
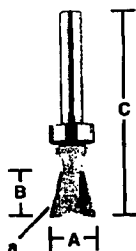


Order G3856 replacement bearing.

1/4" SHANK					
MODEL	CUTTER DIA. A	CUTTING LENGTH B	OVERALL LENGTH C	ANGLE B	PRICE
C1659	1/2"	1/2"	2"	45°	\$9.95

## 1/2" DOVETAIL PATTERN BIT with Guide Bearing

For use when template is on top of the workpiece. Works well for sliding dovetails.

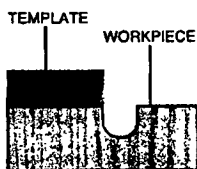
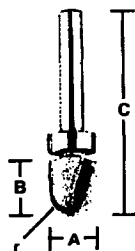


Order G3856 replacement bearing.

1/4" SHANK					
MODEL	CUTTER DIA. A	CUTTING LENGTH B	OVERALL LENGTH C	ANGLE B	PRICE
C1660	1/2"	1/2"	2-1/4"	14°	\$9.95

## CORE BOX PATTERN BIT with Guide Bearing

For use when template is on top of workpiece. Makes fluted columns.

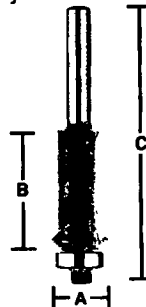


Order G3856 replacement bearing.

1/4" SHANK					
MODEL	CUTTER DIA. A	CUTTING LENGTH B	OVERALL LENGTH C	RADIUS F	PRICE
C1661	1/2"	5/8"	2"	1/4"	\$9.95

## FLUSH TRIM BIT with V-Notch & Guide Bearing

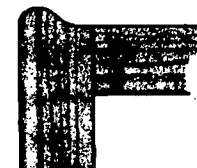
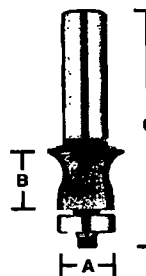
A fine addition to our laminate trim bits. Used to remove excess laminate while making a pleasing "V" where the two pieces join together. If you make drawers and cabinets, you'll appreciate this bit.



Order G3855 replacement bearing.

1/4" SHANK					
MODEL	CUTTER DIA. A	CUTTING LENGTH B	OVERALL LENGTH C	BEAD DIA. D	PRICE
C1470	5/8"	1-3/16"	2-3/4"	1/2"	\$14.95

## NO-D RIP EDGE BITS with Guide Bearing

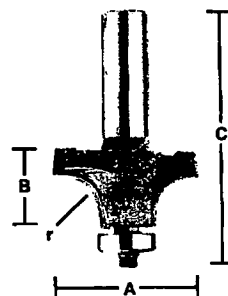


Excellent for CORIAN® and other solid surface materials.

Order G3857 replacement bearing.

1/2" SHANK				
MODEL	CUTTER DIA. A	CUTTING LENGTH B	OVERALL LENGTH C	PRICE
C1500	13/16"	3/4"	2-1/2"	\$19.95
C1501	13/16"	7/8"	2-3/4"	\$22.95

## ROUND EDGE BIT with Guide Bearing



Excellent for CORIAN® and other solid surface materials.

Order G3857 replacement bearing.

1/2" SHANK					
MODEL	CUTTER DIA. A	CUTTING LENGTH B	OVERALL LENGTH C	RADIUS F	PRICE
C1502	1-5/8"	3/4"	2-5/8"	13/32"	\$19.95

MADE IN ISO 9002  
RATED FACTORY

# INDUSTRIAL QUALITY CARBIDE TIPPED ROUTER BITS

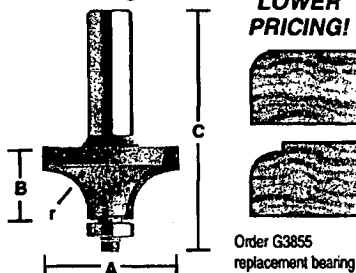
BUY 10 OR MORE ROUTER BITS OR SHAPER CUTTERS AND DEDUCT 10%  
ROUTER BITS SHOWN AT APPROXIMATELY 50% SCALE

Grizzly  
ROUTER BITS

## ROUNDROVER BITS

with Guide Bearing

Roundover bits are used to make quarter rounds of various radii. Also used to soften edges, especially if making anything a child would use. Everyone needs a drawer full of these. So many uses we can't list them all.



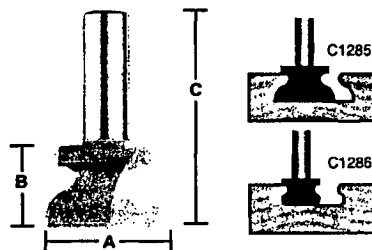
### ANTI-KICKBACK

1/4" SHANK					
MODEL	CUTTER DIA. A	CUTTING LENGTH B	OVERALL LENGTH C	RADIUS R	PRICE
* C1713	5/8"	3/8"	2"	1/16"	\$8.95
C1174	5/8"	3/8"	2"	1/16"	\$8.95
* C1714	7/8"	3/8"	2"	1/8"	\$8.95
C1175	7/8"	3/8"	2"	1/8"	\$8.95
* C1715	7/8"	3/8"	2"	3/16"	\$8.95
C1176	7/8"	3/8"	2"	3/16"	\$8.95
* C1716	1"	1/2"	2"	1/4"	\$9.95
C1177	1"	1/2"	2"	1/4"	\$9.95
* C1717	1-1/8"	1/2"	2-1/8"	5/16"	\$10.95
C1178	1-1/8"	1/2"	2-1/8"	5/16"	\$10.95
* C1718	1-1/4"	5/8"	2-1/4"	3/8"	\$12.95
C1179	1-1/4"	5/8"	2-1/4"	3/8"	\$12.95
* C1719	1-1/2"	5/8"	2-3/8"	1/2"	\$13.95
C1180	1-1/2"	5/8"	2-3/8"	1/2"	\$13.95

1/2" SHANK					
MODEL	CUTTER DIA. A	CUTTING LENGTH B	OVERALL LENGTH C	RADIUS R	PRICE
* C1720	3/4"	3/8"	2-1/4"	1/8"	\$8.95
C1182	3/4"	3/8"	2-1/4"	1/8"	\$8.95
* C1721	7/8"	3/8"	2-1/4"	3/16"	\$8.95
C1183	7/8"	3/8"	2-1/4"	3/16"	\$8.95
* C1722	1"	1/2"	2-1/4"	1/4"	\$8.95
C1184	1"	1/2"	2-1/4"	1/4"	\$9.95
* C1723	1-1/8"	1/2"	2-3/8"	5/16"	\$10.95
C1185	1-1/8"	1/2"	2-3/8"	5/16"	\$10.95
* C1724	1-1/4"	5/8"	2-1/2"	3/8"	\$12.95
C1186	1-1/4"	5/8"	2-1/2"	3/8"	\$12.95
* C1725	1-1/2"	3/4"	2-5/8"	1/2"	\$13.95
C1187	1-1/2"	3/4"	2-5/8"	1/2"	\$13.95
C1188	1-3/4"	7/8"	2-3/4"	5/8"	\$16.95
C1189	2"	1"	2-7/8"	3/4"	\$17.95
C1190	2-1/4"	1-1/8"	3"	7/8"	\$28.95
C1191	2-1/2"	1-1/4"	3-1/4"	1"	\$28.95
C1192	3"	1-1/2"	3-1/2"	1-1/4"	\$33.95

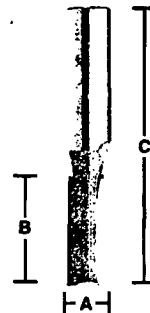
## INSERT FINGER PULL BITS

Just like the name implies, these bits are used to make drawer pulls and hand holds. Remember, you can use part of the profile on other projects too.



1/2" SHANK				
MODEL	CUTTER DIA. A	CUTTING LENGTH B	OVERALL LENGTH C	PRICE
C1285	1-3/8"	3/4"	2-1/4"	\$27.95
C1286	1"	3/4"	2-1/8"	\$28.95

## DOUBLE FLUTED STRAIGHT BITS



Used for cutting dadoes, rabbets, circles and other general purpose routing. Can be used in solid wood, plywood, certain plastics and laminated material. Use shortest length (B) for work to be done.



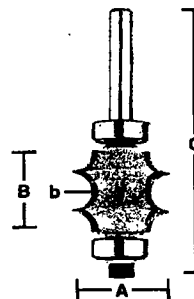
1/4" SHANK				
MODEL	CUTTER DIA. A	CUTTING LENGTH B	OVERALL LENGTH C	PRICE
C1001	1/4"	3/4"	2"	\$5.95
C1002	5/16"	11/16"	2"	\$5.95
C1003	3/8"	3/4"	2"	\$5.95
C1004	1/2"	3/4"	2"	\$7.95
C1005	5/8"	11/16"	2"	\$9.95
C1006	3/4"	3/4"	2"	\$9.95
C1007	1"	3/4"	2"	\$11.95
C1037	23/32"	3/4"	2"	\$11.95

1/2" SHANK				
MODEL	CUTTER DIA. A	CUTTING LENGTH B	OVERALL LENGTH C	PRICE
C1008	1/4"	3/4"	2-1/2"	\$5.95
C1009	5/16"	3/4"	2-1/2"	\$5.95
C1010	3/8"	3/4"	2-1/2"	\$5.95
C1059	7/16"	1"	2-3/4"	\$7.95
C1011	1/2"	1-3/16"	3"	\$7.95
C1012	1/2"	2"	3-3/4"	\$14.95
C1013	5/8"	1-1/8"	2-5/8"	\$9.95
C1014	5/8"	2-3/8"	4"	\$14.95
C1060	11/16"	1-1/8"	2-5/8"	\$9.95
C1038	23/32"	1-1/8"	2-5/8"	\$11.95
C1015	3/4"	1-1/8"	2-5/8"	\$11.95
C1016	3/4"	1-7/8"	3-1/2"	\$14.95
C1017	1"	1-1/8"	2-5/8"	\$11.95
C1061	1-3/16"	2"	3-1/2"	\$21.95
C1018	1-1/4"	1-3/16"	2-5/8"	\$11.95
C1019	1-3/8"	1-3/16"	2-5/8"	\$14.95
C1021	1-5/8"	1-3/16"	2-5/8"	\$17.95

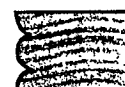
\* Replacement for the Inca-Jig™ Set.

## MULTIPLE BEADING BIT

with Two Guide Bearings



Makes attractive beaded moulding in single or multiple passes.



Order G3852 replacement bearings.

1/4" SHANK					
MODEL	CUTTER DIA. A	CUTTING LENGTH B	OVERALL LENGTH C	BEAD DIA. D	PRICE
C1342	15/16"	7/8"	2-3/4"	3/8"	\$29.95

CALL 24 HOURS A DAY FROM ANYWHERE IN THE U.S.A. 1-800-523-4777

# INDUSTRIAL QUALITY CARBIDE TIPPED ROUTER BITS

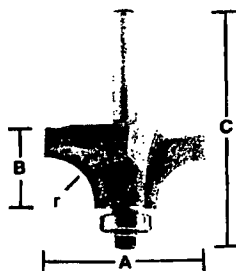
MADE IN ISO 9002  
RATED FACTORY

**BUY 10 OR MORE ROUTER BITS OR SHAPER CUTTERS AND DEDUCT 10%**  
ROUTER BITS SHOWN AT APPROXIMATELY 50% SCALE

## BEADING BITS

with Guide Bearing

The quarter bead can be used on drawer fronts, moulding, chair rails – anywhere a little special look is needed. High hook angle works well on end grain stock and can be used for pattern work.



Order G3855 replacement bearing.

### 1/4" SHANK

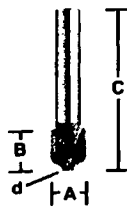
MODEL	CUTTER DIA. A	CUTTING LENGTH B	OVERALL LENGTH C	RADIUS R	PRICE
C1157	3/4"	7/16"	2-1/8"	1/16"	\$9.95
C1158	7/8"	3/8"	2"	1/8"	\$9.95
C1159	1"	3/8"	2"	3/16"	\$9.95
C1160	1-1/8"	7/16"	2"	1/4"	\$10.95
C1161	1-1/4"	1/2"	2-1/8"	5/16"	\$11.95
C1162	1-3/8"	5/8"	2-1/8"	3/8"	\$13.95
C1163	1-5/8"	3/4"	2-3/4"	1/2"	\$14.95

### 1/2" SHANK

MODEL	CUTTER DIA. A	CUTTING LENGTH B	OVERALL LENGTH C	RADIUS R	PRICE
C1164	3/4"	3/8"	2-1/4"	1/8"	\$9.95
C1165	7/8"	3/8"	2-1/4"	3/16"	\$9.95
C1166	1-1/8"	1/2"	2-1/4"	1/4"	\$10.95
C1167	1-1/4"	1/2"	2-3/8"	5/16"	\$11.95
C1168	1-3/8"	5/8"	2-1/2"	3/8"	\$13.95
C1169	1-5/8"	3/4"	2-5/8"	1/2"	\$14.95
C1170	1-3/4"	7/8"	2-3/4"	5/8"	\$17.95
C1172	2-1/8"	1"	2-3/4"	3/4"	\$18.95

## OGEE PLUNGE BITS

The upshear angle lifts chips out of the cut, leaving a superb finish with no burning. If you do any veining or fluting, you need these.



### 1/4" SHANK

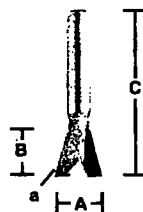
MODEL	CUTTER DIA. A	CUTTING LENGTH B	OVERALL LENGTH C	DIA. d	PRICE
C1195	3/8"	3/8"	1-5/8"	1/8"	\$11.95
C1196	1/2"	7/16"	1-5/8"	1/8"	\$14.95
C1197	15/16"	5/8"	1-7/8"	3/16"	\$15.95
C1198	1-5/16"	3/4"	2"	3/16"	\$17.95

### 1/2" SHANK

MODEL	CUTTER DIA. A	CUTTING LENGTH B	OVERALL LENGTH C	DIA. d	PRICE
C1199	3/8"	3/8"	1-5/8"	1/8"	\$11.95
C1200	1/2"	7/16"	1-5/8"	1/8"	\$14.95
C1201	15/16"	5/8"	1-7/8"	3/16"	\$15.95
C1202	1-5/16"	3/4"	2"	3/16"	\$17.95

## DOVETAIL BITS

Used in the production of dovetail joints for drawers and fine furniture. Suitable for routing wood, laminates, plywood and composition paneling.



### 1/4" SHANK

MODEL	CUTTER DIA. A	CUTTING LENGTH B	OVERALL LENGTH C	ANGLE B	PRICE
C1510	1/4"	5/16"	1-5/8"	7°	\$4.95
C1067	5/16"	3/8"	1-5/8"	8°	\$4.95
C1068	3/8"	3/8"	1-3/4"	8°	\$4.95
C1066	17/32"	1/2"	1-5/8"	14°	\$4.95
C1069	1/2"	1/2"	1-3/4"	14°	\$4.95
C1070	9/16"	7/16"	1-7/8"	14°	\$5.95
C1071	3/4"	11/16"	2-1/8"	14°	\$6.95

### 1/2" SHANK

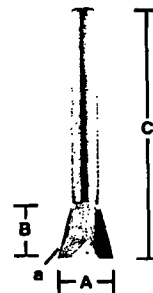
MODEL	CUTTER DIA. A	CUTTING LENGTH B	OVERALL LENGTH C	ANGLE B	PRICE
C1078	17/32"	1/2"	2-1/4"	14°	\$4
C1074	1/2"	1/2"	2-1/4"	14°	\$4.
C1511	5/8"	3/4"	2-1/2"	7°	\$6.95
C1512	3/4"	1-1/8"	3"	7°	\$7.95
C1076	3/4"	3/4"	2-1/2"	14°	\$7.95
C1077	1"	1-1/8"	2-3/4"	14°	\$9.95

\*Replacement for Inca-Jig™ Set.

\*\*Special Tool Steel

## DOVETAIL JIG BITS

These bits are especially made for use in dovetail fixtures and jigs. They have an extended shank length and a high rake angle for smooth, fast routing in all types of wood and wood composite material.



### 1/4" SHANK

MODEL	CUTTER DIA. A	CUTTING LENGTH B	OVERALL LENGTH C	ANGLE B	PRICE
C1430	3/8"	3/8"	2-1/4"	8°	\$1
C1431	1/2"	5/8"	2-5/8"	8°	\$1
C1432	1/2"	1/2"	2-1/4"	15°	\$13.95

### 1/2" SHANK

MODEL	CUTTER DIA. A	CUTTING LENGTH B	OVERALL LENGTH C	ANGLE B	PRICE
C1433	11/16"	7/8"	2-3/4"	8°	\$14.95
C1434	7/8"	1-1/8"	3-1/4"	8°	\$15.95



MADE IN ISO 9002  
RATED FACTORY

# INDUSTRIAL QUALITY CARBIDE TIPPED ROUTER BITS

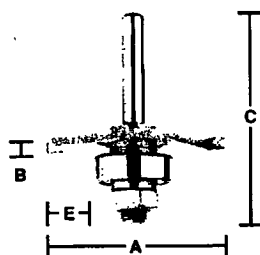
BUY 10 OR MORE ROUTER BITS OR SHAPER CUTTERS AND DEDUCT 10%  
ROUTER BITS SHOWN AT APPROXIMATELY 50% SCALE

Grizzly  
ROUTER BITS

## SLOTING BITS

Four Flutes with Guide Bearing

These bits are ideal for grooving, rabbeting and slotting. Use C1098 or C1102 for No. "10" or "20" biscuit joining. They come complete and ready to use. Please check cutting diameter when comparing bits!



Order G3845 replacement bearing.



### 1/4" SHANK

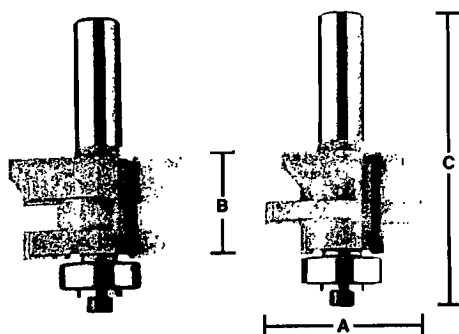
MODEL	CUTTER DIA. A	CUTTING LENGTH B	OVERALL LENGTH C	CUTTING DEPTH E	PRICE
C1106	1-7/8"	1/8"	2-1/4"	1/2"	\$19.95
C1107	1-7/8"	3/16"	2-1/4"	1/2"	\$21.95
C1108	1-7/8"	1/4"	2-1/4"	1/2"	\$23.95
C1097	2"	1/8"	2-1/4"	9/16"	\$19.95
C1098	2"	5/32"	2-1/4"	9/16"	\$21.95
C1099	2"	3/16"	2-1/4"	9/16"	\$21.95
C1100	2"	1/4"	2-1/4"	9/16"	\$23.95

### 1/2" SHANK

MODEL	CUTTER DIA. A	CUTTING LENGTH B	OVERALL LENGTH C	CUTTING DEPTH E	PRICE
C1109	1-7/8"	1/8"	2-1/2"	1/2"	\$19.95
C1110	1-7/8"	3/16"	2-1/2"	1/2"	\$21.95
C1111	1-7/8"	1/4"	2-1/2"	1/2"	\$23.95
C1101	2"	1/8"	2-1/2"	9/16"	\$19.95
C1102	2"	5/32"	2-1/2"	9/16"	\$21.95
C1103	2"	3/16"	2-1/2"	9/16"	\$21.95
C1104	2"	1/4"	2-1/2"	9/16"	\$23.95

## TONGUE AND GROOVE V-MATCH SET

Used for making custom paneling and wainscoting. There's nothing like solid wood paneling to "spruce up" a room. For 3/4" to 1 1/4" material. Two-piece with bearing guide.



Order G3845 replacement bearings.

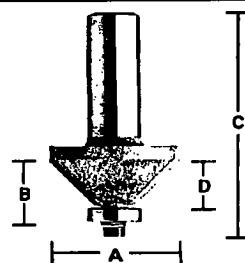
### 1/2" SHANK

MODEL	CUTTER DIA. A	CUTTING LENGTH B	OVERALL LENGTH C	PRICE
C1242	1-7/16"	1"	2-1/2"	\$94.95 / set

## 45° CHAMFER BITS

with Guide Bearing

Used for beveling and chamfering any solid wood, laminate or wood composite material. High shear angle gives a clean, smooth cut. Can be used for pattern work and moulding.



Order G3855 replacement bearing.

### \* ANTI-KICKBACK

#### 1/4" SHANK

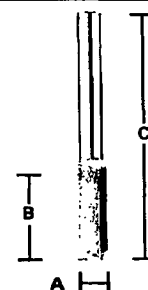
MODEL	CUTTER DIA. A	CUTTING LENGTH B	OVERALL LENGTH C	BEVEL LENGTH D	PRICE
C1726	1"	7/16"	2"	1/4"	\$11.95
C1129	1"	7/16"	2"	1/4"	\$10.95
C1727	1-3/8"	5/8"	2-1/4"	3/8"	\$15.95
C1130	1-3/8"	5/8"	2-1/4"	3/8"	\$14.95

#### 1/2" SHANK

MODEL	CUTTER DIA. A	CUTTING LENGTH B	OVERALL LENGTH C	BEVEL LENGTH D	PRICE
C1728	1-1/8"	1/2"	2-1/4"	3/8"	\$13.95
C1131	1-1/8"	1/2"	2-1/4"	3/8"	\$12.95
C1729	1-3/8"	5/8"	2-3/8"	7/16"	\$15.95
C1132	1-3/8"	5/8"	2-3/8"	7/16"	\$14.95
C1730	1-5/8"	3/4"	2-1/2"	1/2"	\$18.95
C1133	1-5/8"	3/4"	2-1/2"	1/2"	\$17.95
C1134	1-7/8"	7/8"	2-5/8"	5/8"	\$20.95
C1135	2-1/8"	1"	2-3/4"	3/4"	\$22.95

## STRAIGHT BITS

WITH EXTENDED  
SHANK LENGTH



#### 1/4" SHANK

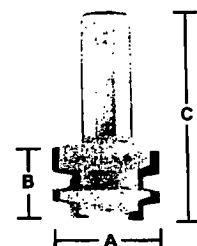
MODEL	CUTTER DIA. A	CUTTING LENGTH B	OVERALL LENGTH C	PRICE
C1436	5/16"	1"	2-3/4"	\$11.95

#### 1/2" SHANK

MODEL	CUTTER DIA. A	CUTTING LENGTH B	OVERALL LENGTH C	PRICE
C1437	7/16"	7/8"	3"	\$11.95
C1438	1/2"	7/8"	3"	\$12.95

## DRAWER LOCK BIT

Can also be used to create glue joints. Ideal for 1/2" stock.



#### 1/2" SHANK

MODEL	CUTTER DIA. A	CUTTING LENGTH B	OVERALL LENGTH C	PRICE
C1330	1-1/16"	3/4"	2-1/4"	\$29.95

CALL 24 HOURS A DAY FROM ANYWHERE IN THE U.S.A. 1-800-523-4777



# INDUSTRIAL QUALITY CARBIDE TIPPED ROUTER BITS

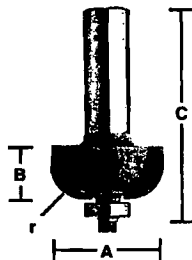
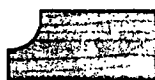
MADE IN ISO 9002  
RATED FACTORY

BUY 10 OR MORE ROUTER BITS OR SHAPER CUTTERS AND DEDUCT 10%  
ROUTER BITS SHOWN AT APPROXIMATELY 50% SCALE

## COVE BITS with Guide Bearing

Great for making mouldings and accenting case goods. High shear angle cuts smooth and cleans out fast. Can be used for pattern work. A large selection to choose from!

Order G3855 replacement bearing.

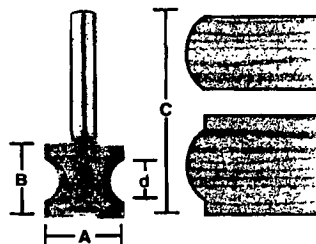


### \* ANTI-KICKBACK

1/4" SHANK					
MODEL	CUTTER DIA. A	CUTTING LENGTH B	OVERALL LENGTH C	RADIUS R	PRICE
C1138	5/8"	1/2"	2-1/8"	1/16"	\$9.95
* C1731	5/8"	3/8"	2-1/8"	1/16"	\$10.95
C1139	3/4"	5/16"	2"	1/8"	\$9.95
* C1732	3/4"	5/16"	2"	1/8"	\$10.95
C1140	7/8"	1/2"	2-1/8"	3/16"	\$9.95
* C1733	7/8"	1/2"	2-1/8"	3/16"	\$10.95
C1141	1"	1/2"	2"	1/4"	\$10.95
* C1734	1"	1/2"	2"	1/4"	\$11.95
C1142	1-1/8"	1/2"	2-1/8"	5/16"	\$11.95
* C1735	1-1/8"	1/2"	2-1/8"	5/16"	\$12.95
C1143	1-1/4"	5/8"	2-1/8"	3/8"	\$12.95
* C1736	1-1/4"	5/8"	2-1/8"	3/8"	\$13.95
C1144	1-1/2"	5/8"	2-1/4"	1/2"	\$13.95
* C1737	1-1/2"	5/8"	2-1/4"	1/2"	\$14.95
1/2" SHANK					
MODEL	CUTTER DIA. A	CUTTING LENGTH B	OVERALL LENGTH C	RADIUS R	PRICE
* C1738	3/4"	3/8"	2-1/8"	1/8"	\$10.95
C1145	3/4"	3/8"	2-1/8"	1/8"	\$9.95
* C1739	7/8"	1/2"	2-1/8"	3/16"	\$10.95
C1146	7/8"	1/2"	2-1/8"	3/16"	\$9.95
* C1740	1"	1/2"	2-1/4"	1/4"	\$11.95
C1147	1"	1/2"	2-1/4"	1/4"	\$10.95
* C1741	1-1/8"	1/2"	2-1/4"	5/16"	\$12.95
C1148	1-1/8"	1/2"	2-1/4"	5/16"	\$11.95
* C1742	1-1/4"	5/8"	2-1/2"	3/8"	\$13.95
C1150	1-1/4"	5/8"	2-1/2"	3/8"	\$12.95
C1149	1-1/2"	5/8"	2-1/2"	1/2"	\$13.95
* C1743	1-1/2"	5/8"	2-1/2"	1/2"	\$14.95
C1151	2"	7/8"	2-3/4"	3/4"	\$24.95

## FINGERNAIL BITS (HALF RADIUS)

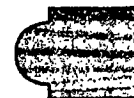
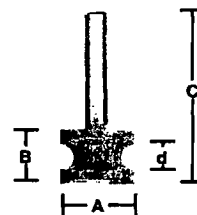
Puts a nice smooth profile on tables, countertops and wherever a curved edge is needed. Great for tops of drawer sides!



1/4" SHANK					
MODEL	CUTTER DIA. A	CUTTING LENGTH B	OVERALL LENGTH C	DISTANCE D	PRICE
C1214	3/4"	5/8"	1-7/8"	3/8"	\$11.95
C1215	3/4"	3/4"	2"	1/2"	\$15.95
C1216	7/8"	1"	2-1/4"	3/4"	\$17.95
1/2" SHANK					
MODEL	CUTTER DIA. A	CUTTING LENGTH B	OVERALL LENGTH C	DISTANCE D	PRICE
C1217	7/8"	9/16"	2-1/8"	3/8"	\$11.95
C1218	7/8"	3/4"	2-1/4"	1/2"	\$15.95
C1219	1"	1"	2-1/2"	3/4"	\$17.95
C1220	1"	1-3/8"	2-3/4"	1"	\$19.95
C1221	1-1/8"	1-3/4"	3-3/4"	1-1/2"	\$21.95

## BULL NOSE BITS

Used for full beading and rounding edges, particularly for casement and staircase work. Also used for moulding and picture frames or anywhere a round profile is needed. Especially attractive on countertops.

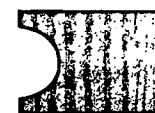
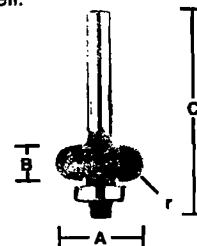


1/4" SHANK					
MODEL	CUTTER DIA. A	CUTTING LENGTH B	OVERALL LENGTH C	DIA d	PRICE
C1022	3/4"	1/2"	1-3/4"	1/4"	\$11.95
C1023	7/8"	11/16"	1-7/8"	3/8"	\$14.95
C1024	1"	13/16"	2"	1/2"	\$14.95
C1025	1-1/8"	13/16"	2-1/8"	5/8"	\$15.95
C1026	1-1/4"	1-1/16"	2-1/4"	3/4"	\$15.95
1/2" SHANK					
MODEL	CUTTER DIA. A	CUTTING LENGTH B	OVERALL LENGTH C	DIA d	PRICE
C1027	7/8"	1/2"	2"	1/4"	\$11.95
C1028	1"	5/8"	2-1/8"	3/8"	\$14.95
C1029	1-1/8"	13/16"	2-5/16"	1/2"	\$14.95
C1030	1-1/4"	13/16"	2-3/8"	5/8"	\$17.95
C1031	1-3/8"	1-1/16"	2-1/2"	3/4"	\$17.95
C1032	1-5/8"	1-3/8"	2-3/4"	1"	\$17.95
C1033	1-3/4"	1-3/8"	2-7/8"	1-1/8"	\$27.95
C1034	1-7/8"	1-5/8"	3"	1-1/4"	\$29.95
C1035	2"	1-3/4"	3-3/16"	1-3/8"	\$32.95
C1036	2-1/8"	1-3/4"	3-1/4"	1-1/2"	\$35.95

\* Use C1023 & C1028 to make wooden hinges

## INTERNAL RADIUS BITS with Guide Bearing

Used for fluting and grooving. Can be used on irregular shaped pieces as well.



Order G3855 replacement bearing.

1/4" SHANK					
MODEL	CUTTER DIA. A	CUTTING LENGTH B	OVERALL LENGTH C	RADIUS R	PRICE
C1267	7/8"	3/8"	2"	3/16"	\$11.95
C1268	7/8"	1/2"	2-1/8"	1/4"	\$11.95
C1269	1"	3/4"	2-3/8"	3/8"	\$17.95
1/2" SHANK					
MODEL	CUTTER DIA. A	CUTTING LENGTH B	OVERALL LENGTH C	RADIUS R	PRICE
C1270	7/8"	3/8"	2-1/4"	3/16"	\$11.95
C1271	7/8"	1/2"	2-3/8"	1/4"	\$11.95
C1272	7/8"	3/4"	2-5/8"	3/8"	\$17.95
C1273	1"	1"	3"	5/8"	\$18.95
C1274	1-1/8"	1-1/2"	3-1/2"	1-1/8"	\$24.95

MADE IN ISO 9002  
RATED FACTORY

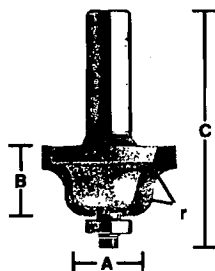
# INDUSTRIAL QUALITY CARBIDE TIPPED ROUTER BITS

BUY 10 OR MORE ROUTER BITS OR SHAPER CUTTERS AND DEDUCT 10%  
ROUTER BITS SHOWN AT APPROXIMATELY 50% SCALE

**Grizzly**  
ROUTER BITS

## ANTI-KICKBACK ROMAN OGEE BITS with Guide Bearing

Ogee design is a classic and looks good on just about anything made of wood. A MUST for architectural millwork. Can be used for pattern work.

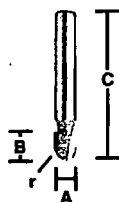


Order G3855 replacement bearing.

1/4" SHANK					
MODEL	CUTTER DIA. A	CUTTING LENGTH B	OVERALL LENGTH C	RADIUS R	PRICE
C1744	1-1/8"	1/2"	2-1/16"	5/32"	\$15.95
C1745	1-1/2"	3/4"	2-1/4"	1/4"	\$17.95
1/2" SHANK					
MODEL	CUTTER DIA. A	CUTTING LENGTH B	OVERALL LENGTH C	RADIUS R	PRICE
C1746	1-1/8"	1/2"	2-1/4"	5/32"	\$15.95
C1747	1-1/2"	3/4"	2-1/2"	1/4"	\$17.95

## CORE BOX BITS

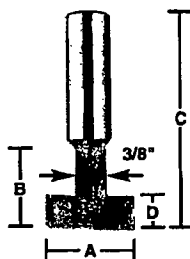
The upshear angle lifts chips up to give smooth cut with no burning. If you do any veining or fluting, you need these.



1/4" SHANK					
MODEL	CUTTER DIA. A	CUTTING LENGTH B	OVERALL LENGTH C	RADIUS R	PRICE
C1229	1/4"	3/8"	1-3/4"	1/8"	\$7.95
C1230	3/8"	7/16"	1-3/4"	3/16"	\$8.95
C1231	1/2"	9/16"	1-7/8"	1/4"	\$10.95
1/2" SHANK					
MODEL	CUTTER DIA. A	CUTTING LENGTH B	OVERALL LENGTH C	RADIUS R	PRICE
C1236	5/8"	11/16"	2-1/4"	5/16"	\$12.95
C1237	3/4"	13/16"	2-1/4"	3/8"	\$14.95
C1238	1"	1"	2-1/2"	1/2"	\$16.95

## T-SLOT BIT

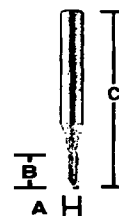
This T-Slot cutter is designed for use in creating slot wall panels for commercial display units using hanging brackets.



1/2" SHANK					
MODEL	CUTTER DIA. A	CUTTING LENGTH B	OVERALL LENGTH C	T-WIDTH D	PRICE
C1629	1"	7/8"	2-5/16"	3/8"	\$19.95

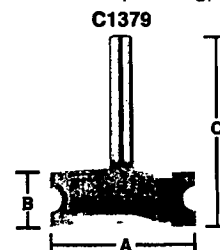
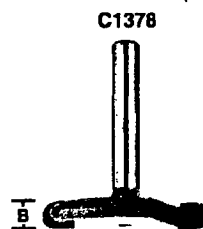
## STRAIGHT BITS Single Flute

Single fluted cutters offer more backing behind the carbide and are great for plunging.



1/4" SHANK				
MODEL	CUTTER DIA. A	CUTTING LENGTH B	OVERALL LENGTH C	PRICE
C1460	1/8"	3/8"	1-7/8"	\$5.95
C1461	5/32"	3/8"	1-1/2"	\$5.95
C1462	3/16"	3/8"	1-7/8"	\$5.95
C1463	1/4"	3/4"	2-1/8"	\$5.95
C1514	3/8"	3/4"	2"	\$6.95
C1464	1/2"	3/4"	2"	\$7.95
1/2" SHANK				
MODEL	CUTTER DIA. A	CUTTING LENGTH B	OVERALL LENGTH C	PRICE
C1465	1/4"	3/4"	2-5/8"	\$5.95
C1515	3/8"	1"	2-3/4"	\$8.95
C1466	1/2"	1-1/8"	2-3/4"	\$7.95

## FLUTE AND BEAD BITS (for small boat planking)

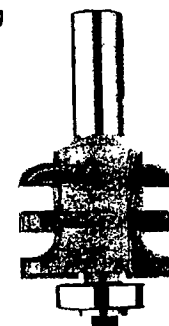


1/4" SHANK				
MODEL	CUTTER DIA. A	CUTTING LENGTH B	OVERALL LENGTH C	PRICE
C1378	1-1/2"	1/4"	1-3/4"	\$19.95
C1379	1-1/2"	1/2"	1-3/4"	\$19.95

## ONE PIECE STILE AND RAIL SETS with Guide Bearing

Cut stiles and rails without rearranging the bit — just flip the workpiece over and re-set the cutting height. Designed for 3/4" material. 1/2" shank.

Order G3845 replacement bearing.



1/2" SHANK		
MODEL	DESCRIPTION	PRICE
C1689	Quarter Round	\$59.95
C1690	Bead	\$59.95
C1691	Roman Ogee	\$59.95
C1692	Ogee	\$59.95

CALL 24 HOURS A DAY FROM ANYWHERE IN THE U.S.A. 1-800-523-4777

## INDUSTRIAL QUALITY CARBIDE TIPPED ROUTER BITS

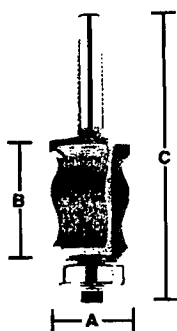
MADE IN ISO 9002  
RATED FACTORY

**BUY 10 OR MORE ROUTER BITS OR SHAPER CUTTERS AND DEDUCT 10%**  
ROUTER BITS SHOWN AT APPROXIMATELY 50% SCALE

### PICTURE FRAME BITS

with Guide Bearing

More than 1" of decorative cutting surface makes these carbide bits perfect for picture frames, mirrors or furniture trim.



C1532  
C1539



C1533  
C1540



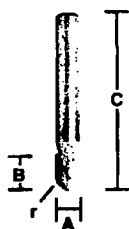
C1534  
C1541

Order G3855 replacement bearing.

1/4" SHANK				
MODEL	CUTTER DIA. A	CUTTING LENGTH B	OVERALL LENGTH C	PRICE
C1532	13/16"	1-1/8"	2-5/8"	\$29.95
C1533	13/16"	1-1/8"	2-5/8"	\$29.95
C1534	7/8"	1-1/8"	2-5/8"	\$29.95
1/2" SHANK				
MODEL	CUTTER DIA. A	CUTTING LENGTH B	OVERALL LENGTH C	PRICE
C1539	13/16"	1-1/8"	2-5/8"	\$29.95
C1540	13/16"	1-1/8"	2-5/8"	\$29.95
C1541	7/8"	1-1/8"	2-5/8"	\$29.95

### ROUNDOUSE BITS

Used for routing larger flutes and veins. Also for coving edges and surface pieces. Upshear cleans chips out fast. Excellent for architectural millwork!

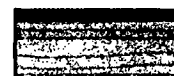
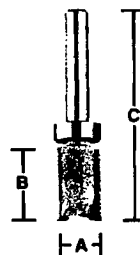


1/4" SHANK					
MODEL	CUTTER DIA. A	CUTTING LENGTH B	OVERALL LENGTH C	RADIUS R	PRICE
C1054	1/4"	5/16"	1-5/8"	1/8"	\$7.95
C1055	3/8"	11/32"	1-5/8"	3/16"	\$8.95
C1056	1/2"	3/8"	1-5/8"	1/4"	\$10.95
C1057	5/8"	1/2"	1-3/4"	5/16"	\$12.95
C1058	3/4"	1/2"	1-3/4"	3/8"	\$14.95
1/2" SHANK					
MODEL	CUTTER DIA. A	CUTTING LENGTH B	OVERALL LENGTH C	RADIUS R	PRICE
C1063	3/4"	5/8"	2-1/8"	3/8"	\$14.95
C1064	1"	5/8"	2-1/8"	1/2"	\$17.95
C1065	1-1/2"	1"	2-1/2"	3/4"	\$23.95

### PATTERN CUTTING BITS

with Upper Guide Bearing

These are used when cutting duplicate models from a pattern. Bearing above cutter makes it easy to use. If you want to rout fast you need one of these!



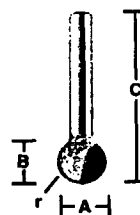
- Pattern  
- Workpiece

Order G3847 replacement bearing for C1306.  
Order G3854 replacement bearing for C1307.  
Order G3852 replacement bearing for C1308.  
Order G3853 replacement bearing for C1309.  
Order G1779 replacement bearing for C1310.

1/4" SHANK				
MODEL	CUTTER DIA. A	CUTTING LENGTH B	OVERALL LENGTH C	PRICE
C1306	1/2"	3/4"	2-1/4"	\$14.95
C1307	5/8"	3/4"	2-1/4"	\$14.95
C1308	3/4"	3/4"	2-1/4"	\$14.95
1/2" SHANK				
MODEL	CUTTER DIA. A	CUTTING LENGTH B	OVERALL LENGTH C	PRICE
C1309	3/4"	1"	2-1/2"	\$19.95
C1310	1-1/8"	1-1/8"	3"	\$24.95

### RADIUS BITS

Used for round bottom finishing and as a drawer pull. Use a template or guide when fluting.



ROUND BOTTOM FINISH

DRAWER PULL



1/4" SHANK					
MODEL	CUTTER DIA. A	CUTTING LENGTH B	OVERALL LENGTH C	RADIUS R	PRICE
C1278	1/2"	7/16"	1-3/4"	1/4"	\$13.95
C1279	3/4"	5/8"	2"	3/8"	\$17.95
1/2" SHANK					
MODEL	CUTTER DIA. A	CUTTING LENGTH B	OVERALL LENGTH C	RADIUS R	PRICE
C1280	1/2"	7/16"	2-1/4"	1/4"	\$13.95
C1284	5/8"	1/2"	2-1/4"	5/16"	\$15.95
C1281	3/4"	5/8"	2-1/4"	3/8"	\$17.95
C1282	1"	15/16"	2-1/2"	1/2"	\$21.95
C1283	1-1/4"	1-1/8"	2-3/4"	5/8"	\$23.95

MADE IN ISO 9002  
RATED FACTORY

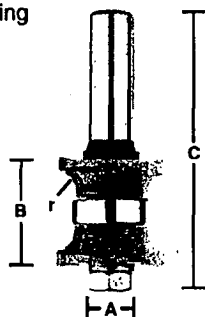
# INDUSTRIAL QUALITY CARBIDE TIPPED ROUTER BITS

**BUY 10 OR MORE ROUTER BITS OR SHAPER CUTTERS AND DEDUCT 10%**  
ROUTER BITS SHOWN AT APPROXIMATELY 50% SCALE

## DOUBLE ROUNDOVER BIT

with Guide Bearing

Smooth-cutting roundover bit delivers handsome eased edges on 3/4" stock. Center guide bearing.



Order G3845 replacement bearing.

1/2" SHANK

MODEL	CUTTER DIA. A	CUTTING LENGTH B	OVERALL LENGTH C	RADIUS R	PRICE
C1369	1-1/4"	1-1/8"	3"	3/16"	\$38.95

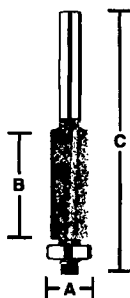
## SHEAR CUT FLUSH TRIM BITS

with Guide Bearing

Shearing action provides smooth face finishing. No lifting of laminate and less taxing on router.



Cutting edge is angled



Order G3855 replacement bearing.

1/4" SHANK

MODEL	CUTTER DIA. A	CUTTING LENGTH B	OVERALL LENGTH C	PRICE
C1353	1/2"	1-3/16"	2-3/4"	\$9.95

1/2" SHANK

MODEL	CUTTER DIA. A	CUTTING LENGTH B	OVERALL LENGTH C	PRICE
C1354	1/2"	1-3/16"	3-1/4"	\$9.95

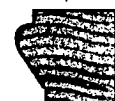
## DOOR LIP BITS

A selection of three attractive profiles for kitchen and vanity cabinet doors. For 3/4" stock.

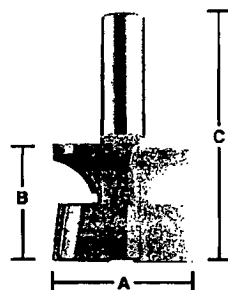
C1332



C1333



C1334



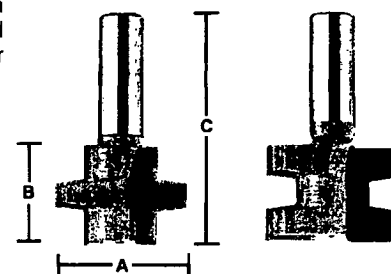
1/2" SHANK

MODEL	CUTTER DIA. A	CUTTING LENGTH B	OVERALL LENGTH C	PRICE
C1332	1-5/8"	1-1/4"	2-3/4"	\$34.95
C1333	1-5/16"	1"	2-1/2"	\$34.95
C1334	1-7/8"	1"	2-1/2"	\$34.95

## TONGUE AND GROOVE SET

Wedge

Tongue and groove bits provide an excellent aid in strengthening glued and non-glued edge joints. For most 3/8" to 7/8" material.

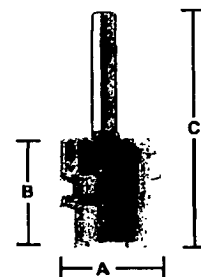


1/2" SHANK

MODEL	CUTTER DIA. A	CUTTING LENGTH B	OVERALL LENGTH C	PRICE
C1240	1-7/16"	1"	2-1/2"	\$74.95 / pair

## GLUE JOINT BITS

This bit is ideal for laminating and jointing stock together for use in table tops, panels and where extra-wide stock is needed. For 3/4" to 1" material.



1/4" SHANK

MODEL	CUTTER DIA. A	CUTTING LENGTH B	OVERALL LENGTH C	PRICE
C1328	1"	1-3/16"	2-5/8"	\$29.95

1/2" SHANK

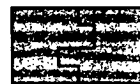
MODEL	CUTTER DIA. A	CUTTING LENGTH B	OVERALL LENGTH C	PRICE
C1329	1-1/8"	1-1/4"	2-5/8"	\$29.95

## REVERSIBLE TONGUE & GROOVE BITS

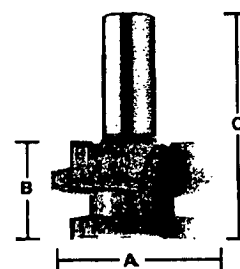
Used for making butt joints in flooring and other similar products. Large surface area of joint ensures a tight fit. For 3/4" material.



C1244



C1245



1/2" SHANK

MODEL	CUTTER DIA. A	CUTTING LENGTH B	OVERALL LENGTH C	TYPE	PRICE
C1244	1-5/8"	1"	2-1/2"	Wedge	\$29.95
C1245	1-5/8"	1"	2-1/2"	Straight	\$29.95

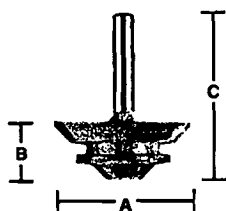
## INDUSTRIAL QUALITY CARBIDE TIPPED ROUTER BITS

MADE IN ISO 9002  
RATED FACTORY

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ROUTER BITS SHOWN AT APPROXIMATELY 50% SCALE

### CORNER LOCK MITER BIT

Used for making 90° corner joints in wood for 1/2" to 3/8" material. Instructions for use provided.



**GREAT FOR  
JEWELRY BOXES  
& DRAWERS!**



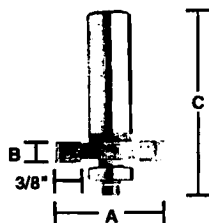
Safety Cutter

1/4" SHANK				
MODEL	CUTTER DIA. A	CUTTING LENGTH B	OVERALL LENGTH C	PRICE
C1711	1-5/8"	11/16"	2-1/4"	\$29.95
1/2" SHANK				
MODEL	CUTTER DIA. A	CUTTING LENGTH B	OVERALL LENGTH C	PRICE
C1712	1-5/8"	11/16"	2-1/4"	\$29.95

### RABBETING BITS

with Guide Bearing

Used for all types of rabbeting and slotting. Ideal for inseting glass, wood or plastic panels into frames. Great for making windows and picture frames. These are two-wing cutters. Use C1040 for "T" moulding and C1042 for No. "O" biscuit joining.



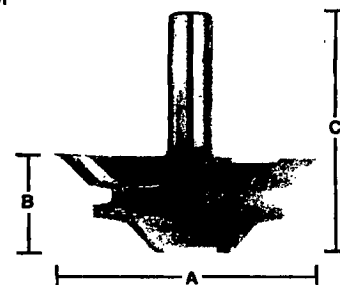
Order G3855 replacement bearing for 3/8" cutting width. Use replacement bearing G3849 to decrease cutting width to 1/4".

\* **ANTI-KICKBACK**

1/4" SHANK				
MODEL	CUTTER DIA. A	CUTTING LENGTH B	OVERALL LENGTH C	PRICE
C1040	1-1/4"	1/16"	2"	\$11.95
C1041	1-1/4"	1/8"	2"	\$11.95
* C1760	1-1/4"	1/8"	2"	\$11.95
C1042	1-1/4"	5/32"	2"	\$11.95
C1043	1-1/4"	1/4"	2"	\$11.95
* C1046	1-1/4"	3/16"	2"	\$11.95
* C1761	1-1/4"	1/4"	2"	\$11.95
* C1762	1-1/4"	3/8"	2-1/8"	\$11.95
C1044	1-1/4"	3/8"	2-1/8"	\$11.95
C1763	1-1/4"	1/2"	2-1/8"	\$12.95
C1045	1-1/4"	1/2"	2-1/8"	\$12.95
1/2" SHANK				
MODEL	CUTTER DIA. A	CUTTING LENGTH B	OVERALL LENGTH C	PRICE
C1047	1-1/4"	1/8"	2"	\$11.95
C1049	1-1/4"	1/4"	2"	\$11.95
* C1764	1-1/4"	1/8"	2"	\$11.95
* C1765	1-1/4"	1/4"	2"	\$11.95
* C1766	1-1/4"	3/8"	2-1/8"	\$11.95
C1050	1-1/4"	3/8"	2-1/8"	\$11.95
* C1767	1-1/4"	1/2"	2-1/4"	\$12.95
C1051	1-1/4"	1/2"	2-1/4"	\$12.95
C1557	1-1/4"	5/8"	2-3/8"	\$13.95
C1558	1-1/4"	3/4"	2-1/2"	\$15.95

### CORNER LOCK MITER BIT

Used for making 90° corner joints in wood for 3/8" to 1" material. Instructions for use provided.

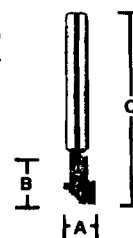


1/2" SHANK				
MODEL	CUTTER DIA. A	CUTTING LENGTH B	OVERALL LENGTH C	PRICE
C1331	3"	1"	2-1/2"	\$44.95

### KEYHOLE BITS

Single Flute

Used for wall mounting clocks, pictures and other hanging items. Also used for T-slots.



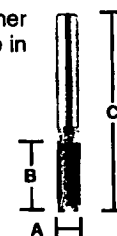
1/4" SHANK				
MODEL	CUTTER DIA. A	CUTTING LENGTH B	OVERALL LENGTH C	PRICE
C1358	1/2"	1/2"	2"	\$7.95
C1359	3/8"	1/2"	2"	\$7.95

### SHEAR CUT STRAIGHT BITS

Shearing action provides for smoother cuts and better chip clearance. For use in hand held routers only.



Cutting edge is angled



1/4" SHANK				
MODEL	CUTTER DIA. A	CUTTING LENGTH B	OVERALL LENGTH C	PRICE
C1345	1/4"	3/4"	2"	\$7.95
C1346	3/8"	3/4"	2"	\$9.95
C1347	1/2"	3/4"	2"	\$9.95
1/2" SHANK				
MODEL	CUTTER DIA. A	CUTTING LENGTH B	OVERALL LENGTH C	PRICE
C1350	1/4"	3/4"	2-3/4"	\$7.95
C1351	3/8"	1"	2-3/4"	\$9.95
C1349	1/2"	1-1/8"	2-7/8"	\$9.95
C1352	3/4"	1-1/8"	2-7/8"	\$11.95

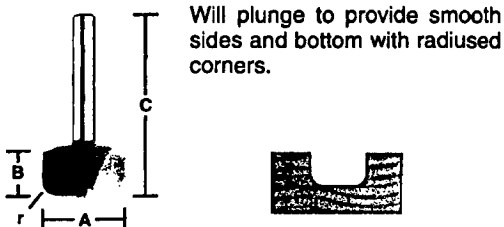
MADE IN ISO 9002  
RATED FACTORY

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**Grizzly**  
ROUTER BITS

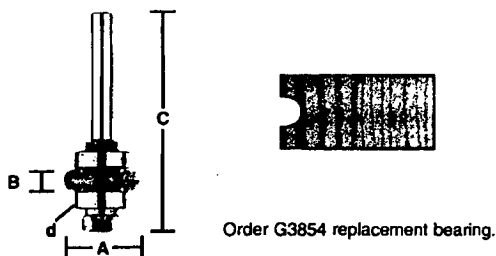
## DISH CUTTER BITS



1/4" SHANK					
MODEL	CUTTER DIA. A	CUTTING LENGTH B	OVERALL LENGTH C	RADIUS r	PRICE
C1356	1"	1/2"	1-7/8"	3/16"	\$19.95
1/2" SHANK					
MODEL	CUTTER DIA. A	CUTTING LENGTH B	OVERALL LENGTH C	RADIUS r	PRICE
C1357	1-1/4"	1/2"	1-7/8"	3/16"	\$22.95

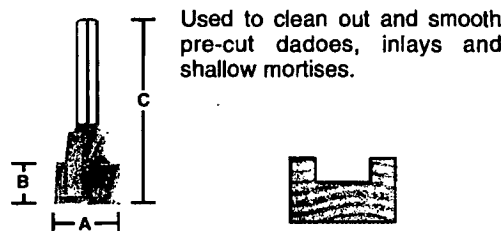
## FLUTE BITS

with Upper and Lower Guide Bearings



1/4" SHANK					
MODEL	CUTTER DIA. A	CUTTING LENGTH B	OVERALL LENGTH C	BEARING DIA. d	PRICE
C1361	7/8"	1/4"	2-1/2"	5/8"	\$24.95
1/2" SHANK					
MODEL	CUTTER DIA. A	CUTTING LENGTH B	OVERALL LENGTH C	BEARING DIA. d	PRICE
C1363	1"	3/8"	2-1/2"	5/8"	\$27.95

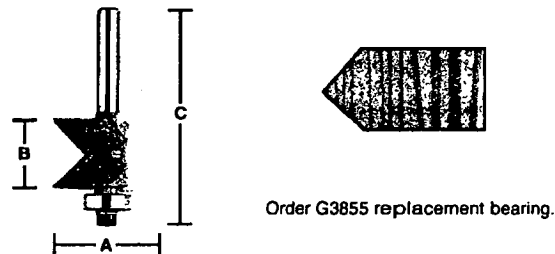
## BOTTOM CLEANING BITS



1/4" SHANK				
MODEL	CUTTER DIA. A	CUTTING LENGTH B	OVERALL LENGTH C	PRICE
C1257	3/4"	9/16"	2"	\$13.95
1/2" SHANK				
MODEL	CUTTER DIA. A	CUTTING LENGTH B	OVERALL LENGTH C	PRICE
C1258	3/4"	9/16"	2-1/4"	\$13.95
C1259	1"	7/16"	2-1/4"	\$13.95
C1261	1-1/2"	7/16"	2-1/4"	\$15.95

## 90° V-GROOVE BITS (MALE)

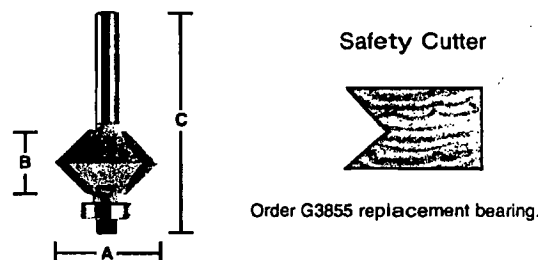
with Guide Bearing



1/4" SHANK				
MODEL	CUTTER DIA. A	CUTTING LENGTH B	OVERALL LENGTH C	PRICE
C1531	1-3/16"	5/8"	2-1/8"	\$17.95
1/2" SHANK				
MODEL	CUTTER DIA. A	CUTTING LENGTH B	OVERALL LENGTH C	PRICE
C1538	1-3/16"	5/8"	2-1/8"	\$17.95

## 90° V-GROOVE BITS (FEMALE)

with Guide Bearing

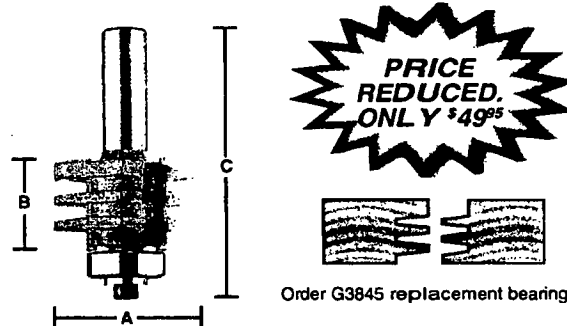


1/4" SHANK				
MODEL	CUTTER DIA. A	CUTTING LENGTH B	OVERALL LENGTH C	PRICE
C1530	1-1/16"	5/8"	2-1/8"	\$17.95
1/2" SHANK				
MODEL	CUTTER DIA. A	CUTTING LENGTH B	OVERALL LENGTH C	PRICE
C1537	1-1/16"	5/8"	2-1/8"	\$17.95

## FINGER JOINT BIT

with Guide Bearing

Used for end-to-end jointing. Provides a super strong joint. For 3/4" material.



1/2" SHANK				
MODEL	CUTTER DIA. A	CUTTING LENGTH B	OVERALL LENGTH C	PRICE
C1367	1-5/8"	1"	3"	\$54.95

CALL 24 HOURS A DAY FROM ANYWHERE IN THE U.S.A. 1-800-523-4777

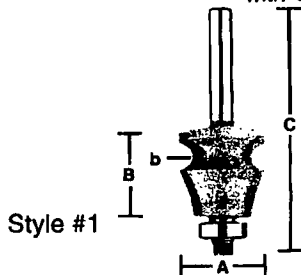
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## EDGE BEADING BITS

with Guide Bearing



These edge beading bits really accent a piece. A nice "touch" for any woodworking project. Available in many bead sizes. Used for edge forming and pattern work.

Safety Cutter

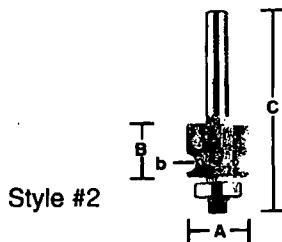


Order G3857 replacement bearing.

1/4" SHANK					
MODEL	CUTTER DIA. A	CUTTING LENGTH B	OVERALL LENGTH C	BEAD b	PRICE
C1119	7/8"	13/16"	2-1/2"	1/4"	\$15.95
1/2" SHANK					
MODEL	CUTTER DIA. A	CUTTING LENGTH B	OVERALL LENGTH C	BEAD b	PRICE
C1121	3/4"	3/4"	2-5/8"	1/8"	\$15.95
C1122	7/8"	13/16"	2-3/4"	1/4"	\$15.95
C1123	1"	13/16"	2-3/4"	3/8"	\$15.95

## EDGE BEADING BITS

with Guide Bearing

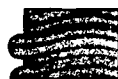
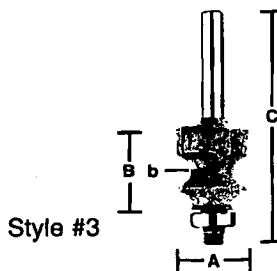


Order G3855 replacement bearing.

1/4" SHANK					
MODEL	CUTTER DIA. A	CUTTING LENGTH B	OVERALL LENGTH C	BEAD b	PRICE
C1125	11/16"	9/16"	2-1/8"	3/16"	\$15.95
C1126	13/16"	3/4"	2-1/4"	5/16"	\$15.95

## EDGE BEADING BITS

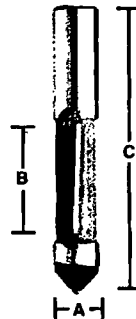
with Guide Bearing



Order G3855 replacement bearing.

1/4" SHANK					
MODEL	CUTTER DIA. A	CUTTING LENGTH B	OVERALL LENGTH C	BEAD b	PRICE
C1373	13/16"	7/8"	2-3/8"	5/16"	\$15.95
1/2" SHANK					
MODEL	CUTTER DIA. A	CUTTING LENGTH B	OVERALL LENGTH C	BEAD b	PRICE
C1374	13/16"	7/8"	2-5/8"	5/16"	\$15.95
C1376	1"	1"	2-7/8"	1/2"	\$19.95

## COMBINATION PANEL BITS



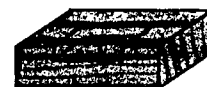
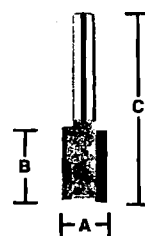
Used in the construction trades to rout cut-outs in floors, ceilings, panels for electrical boxes and windows, etc.



1/4" SHANK					
MODEL	CUTTER DIA. A	CUTTING LENGTH B	OVERALL LENGTH C	FLUTES	PRICE
C1249	1/4"	3/4"	2-3/8"	1	\$5.95
1/2" SHANK					
MODEL	CUTTER DIA. A	CUTTING LENGTH B	OVERALL LENGTH C	FLUTES	PRICE
C1250	1/2"	1-1/8"	3-1/8"	1	\$7.95
C1251	1/2"	1-1/8"	3-1/8"	2	\$10.95

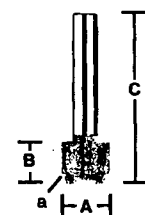
## HINGE MORTISING BITS

Used to make mortise pockets to accept hinges, stringers and edge boards. Smooth cut.



1/4" SHANK				
MODEL	CUTTER DIA. A	CUTTING LENGTH B	OVERALL LENGTH C	PRICE
C1246	1/2"	3/4"	2"	\$9.95
C1247	5/8"	3/4"	2"	\$9.95
C1248	3/4"	3/4"	2"	\$11.95

## FLUSH TRIMMING BITS



1/4" SHANK					
MODEL	CUTTER DIA A	CUTTING LENGTH B	OVERALL LENGTH C	ANGLE a	PRICE
C1227	1/2"	7/16"	1-5/8"	22°	\$9.95



MADE IN ISO 9002  
RATED FACTORY

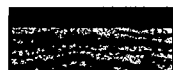
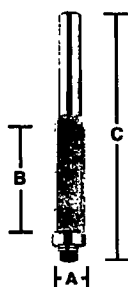
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**Grizzly**  
ROUTER BITS

## FLUSH TRIMMING BITS

with Guide Bearing



Order G3846 replacement bearing for C1079.  
Order G3855 replacement bearing for C1080.  
Order G3848 replacement bearing for C1081.  
Order G3855 replacement bearing for C1082.  
Order G3848 replacement bearing for C1083.

### 1/4" SHANK

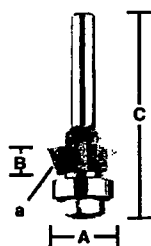
MODEL	CUTTER DIA. A	CUTTING LENGTH B	OVERALL LENGTH C	PRICE
C1079	3/8"	1-3/16"	2-3/4"	\$6.95
C1080	1/2"	1-3/16"	2-3/4"	\$7.95
C1081	5/8"	1-3/16"	2-3/4"	\$9.95

### 1/2" SHANK

MODEL	CUTTER DIA. A	CUTTING LENGTH B	OVERALL LENGTH C	PRICE
C1082	1/2"	1-3/16"	3-1/4"	\$7.95
C1083	5/8"	1-3/16"	3"	\$9.95

## FLUSH AND BEVEL TRIMMING BITS

Three Flutes with Guide Bearing



FLUSH



22°



45°

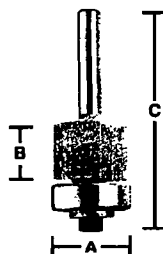
Order G3854 replacement bearing.

### 1/4" SHANK

MODEL	CUTTER DIA. A	CUTTING LENGTH B	OVERALL LENGTH C	ANGLE A	PRICE
C1085	5/8"	1/4"	2"	FLUSH	\$17.95
C1086	13/16"	1/4"	2-1/8"	22°	\$17.95
C1087	1-1/16"	1/4"	2-1/8"	45°	\$17.95

## LAMINATE FLUSH TRIMMING BIT

Two Flutes with Guide Bearing



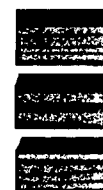
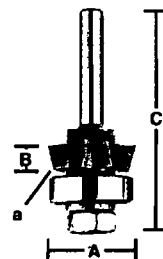
Order G3845 replacement bearing.

### 1/4" SHANK

MODEL	CUTTER DIA. A	CUTTING LENGTH B	OVERALL LENGTH C	PRICE
C1225	22mm	5/8"	2-1/2"	\$18.95

## FLUSH AND BEVEL TRIMMING BITS

Three Flutes with Guide Bearing



FLUSH

15°

25°

Order G3845 replacement bearing.

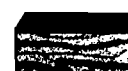
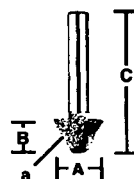
### 1/4" SHANK

MODEL	CUTTER DIA. A	CUTTING LENGTH B	OVERALL LENGTH C	ANGLE A	PRICE
C1089	7/8"	1/4"	2-1/4"	FLUSH	\$17.95
C1090	1"	1/4"	2-1/4"	15°	\$17.95
C1091	1-1/16"	1/4"	2-1/4"	25°	\$17.95

### 1/2" SHANK

MODEL	CUTTER DIA. A	CUTTING LENGTH B	OVERALL LENGTH C	ANGLE A	PRICE
C1092	7/8"	1/4"	2-1/2"	FLUSH	\$17.95
C1093	1"	1/4"	2-1/2"	15°	\$17.95
C1094	1-1/16"	1/4"	2-1/2"	25°	\$17.95

## BEVEL TRIMMING BIT



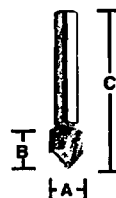
30°

### 1/4" SHANK

MODEL	CUTTER DIA. A	CUTTING LENGTH B	OVERALL LENGTH C	ANGLE A	PRICE
C1223	5/8"	1/2"	1-5/8"	30°	\$11.95

## 90° V-GROOVE BITS

Large selection for grooving in various widths and depths. Used in paneling and general profiling in solid wood, composites and vinyl covered material.



### 1/4" SHANK

MODEL	CUTTER DIA. A	CUTTING LENGTH B	OVERALL LENGTH C	PRICE
C1204	3/8"	7/16"	1-5/8"	\$7.95
C1205	1/2"	1/2"	1-5/8"	\$9.95
C1206	3/4"	5/8"	1-7/8"	\$12.95
C1207	1"	3/4"	2"	\$19.95

### 1/2" SHANK

MODEL	CUTTER DIA. A	CUTTING LENGTH B	OVERALL LENGTH C	PRICE
C1209	3/4"	5/8"	2-1/8"	\$12.95
C1210	1"	3/4"	2-1/4"	\$19.95
C1211	1-1/4"	15/16"	2-1/4"	\$23.95

CALL 24 HOURS A DAY FROM ANYWHERE IN THE U.S.A. 1-800-523-4777

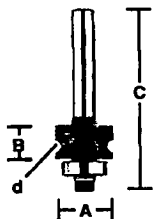
283

# INDUSTRIAL QUALITY CARBIDE TIPPED ROUTER BITS

MADE IN ISO 9002  
RATED FACTORY

**BUY 10 OR MORE ROUTER BITS OR SHAPER CUTTERS AND DEDUCT 10%**  
ROUTER BITS SHOWN AT APPROXIMATELY 50% SCALE

## CORNER BEADING BITS with Guide Bearing



NOTE:  
Profile shown  
requires 2  
passes.

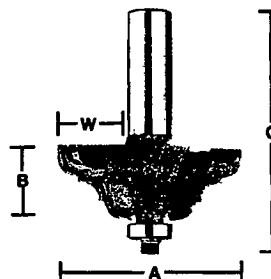
Order G3855 replacement bearing for 1/4" shank bits. Order G3857 replacement bearing for 1/2" shank bits.

1/4" SHANK					
MODEL	CUTTER DIA. A	CUTTING LENGTH B	OVERALL LENGTH C	BEAD DIA. d	PRICE
C1543	3/4"	1/4"	1-3/4"	1/8"	\$15.95
C1544	3/4"	5/16"	1-7/8"	3/16"	\$15.95
C1545	3/4"	1/2"	2"	1/4"	\$16.95

1/2" SHANK					
MODEL	CUTTER DIA. A	CUTTING LENGTH B	OVERALL LENGTH C	BEAD DIA. d	PRICE
C1546	1"	5/8"	2-3/8"	3/8"	\$19.95
C1547	1-1/8"	13/16"	2-1/2"	1/2"	\$21.95
C1548	1-3/16"	7/8"	2-5/8"	5/8"	\$24.95
C1549	1-5/16"	1-1/16"	2-7/8"	3/4"	\$27.95

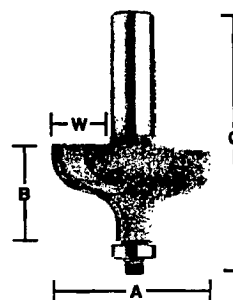
## DOUBLE COVE AND BEAD BIT with Guide Bearing



Order G3855 replacement bearing.

1/2" SHANK					
MODEL	CUTTER DIA. A	CUTTING LENGTH B	OVERALL LENGTH C	CUTTING WIDTH W	PRICE
C1425	2"	3/4"	2-1/2"	3/4"	\$29.95

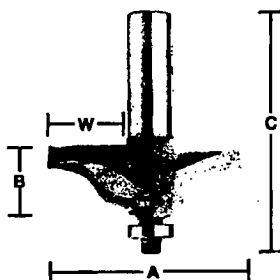
## OGEE BIT with Guide Bearing



Order G3855 replacement bearing.

1/2" SHANK					
MODEL	CUTTER DIA. A	CUTTING LENGTH B	OVERALL LENGTH C	CUTTING WIDTH W	PRICE
C1426	2"	1"	2-3/4"	3/4"	\$29.95

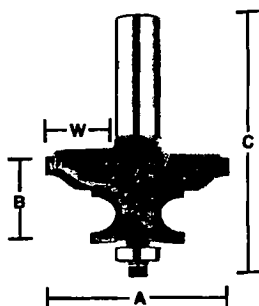
## STEPPED OGEE BIT with Guide Bearing



Order G3855 replacement bearing.

1/2" SHANK					
MODEL	CUTTER DIA. A	CUTTING LENGTH B	OVERALL LENGTH C	CUTTING WIDTH W	PRICE
C1423	2-1/4"	3/4"	2-1/2"	13/16"	\$29.95

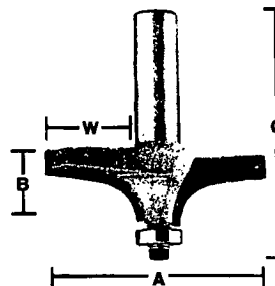
## ROMAN OGEE/ ROUND NOSE BIT with Guide Bearing



Order G3855 replacement bearing.

1/2" SHANK					
MODEL	CUTTER DIA. A	CUTTING LENGTH B	OVERALL LENGTH C	CUTTING WIDTH W	PRICE
C1424	2"	7/8"	2-3/4"	3/4"	\$29.95

## GIANT THUMBAIL BIT with Guide Bearing



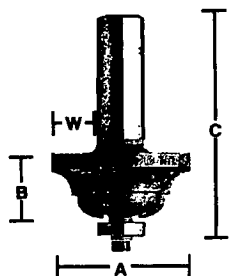
Order G3855 replacement bearing.

1/2" SHANK					
MODEL	CUTTER DIA. A	CUTTING LENGTH B	OVERALL LENGTH C	CUTTING WIDTH W	PRICE
C1371	2-1/2"	3/4"	2-5/8"	1"	\$32.95

MADE IN ISO 9002  
RATED FACTORY

# INDUSTRIAL QUALITY CARBIDE TIPPED ROUTER BITS

**BUY 10 OR MORE ROUTER BITS OR SHAPER CUTTERS AND DEDUCT 10%**  
ROUTER BITS SHOWN AT APPROXIMATELY 50% SCALE



## ANTI-KICKBACK CLASSICAL BITS

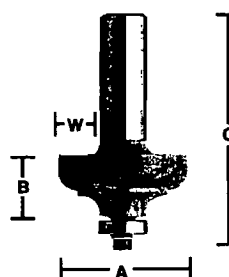
with Bearing Guide

These are great moulding cutters!  
Pick the profile you need. If you do any  
architectural millwork,  
you need these.

Safety Cutter

Order G3855 replacement bearing.

1/4" SHANK					
MODEL	CUTTER DIA. A	CUTTING LENGTH B	OVERALL LENGTH C	CUTTING WIDTH W	PRICE
C1748	1-1/4"	5/8"	2-1/8"	3/8"	\$24.95
C1749	1-1/2"	3/4"	2-1/4"	1/2"	\$24.95
1/2" SHANK					
MODEL	CUTTER DIA. A	CUTTING LENGTH B	OVERALL LENGTH C	CUTTING WIDTH W	PRICE
C1750	1-1/4"	5/8"	2-3/8"	3/8"	\$24.95
C1751	1-1/2"	3/4"	2-1/2"	1/2"	\$24.95



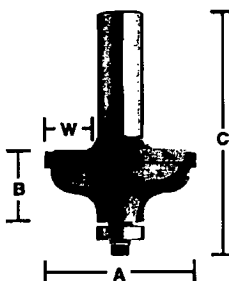
## ANTI-KICKBACK CLASSICAL BITS

with Bearing Guide

Safety Cutter

Order G3855 replacement bearing.

1/4" SHANK					
MODEL	CUTTER DIA. A	CUTTING LENGTH B	OVERALL LENGTH C	CUTTING WIDTH W	PRICE
C1752	1-1/8"	1/2"	2-1/8"	5/16"	\$24.95
C1753	1-1/8"	11/16"	2-1/4"	7/16"	\$24.95
1/2" SHANK					
MODEL	CUTTER DIA. A	CUTTING LENGTH B	OVERALL LENGTH C	CUTTING WIDTH W	PRICE
C1754	1-1/8"	1/2"	2-1/4"	5/16"	\$24.95
C1755	1-3/8"	5/8"	2-1/2"	7/16"	\$24.95



## ANTI-KICKBACK CLASSICAL BITS

with Bearing Guide

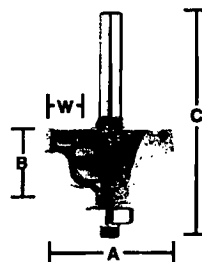
Safety Cutter

Order G3855 replacement bearing.

1/4" SHANK					
MODEL	CUTTER DIA. A	CUTTING LENGTH B	OVERALL LENGTH C	CUTTING WIDTH W	PRICE
C1756	1-1/4"	5/8"	2-1/8"	3/8"	\$24.95
C1757	1-3/8"	5/8"	2-1/8"	7/16"	\$24.95
1/2" SHANK					
MODEL	CUTTER DIA. A	CUTTING LENGTH B	OVERALL LENGTH C	CUTTING WIDTH W	PRICE
C1758	1-3/8"	1/2"	1-3/8"	7/16"	\$24.95
C1759	1-5/8"	3/4"	2-1/2"	9/16"	\$24.95

## CLASSICAL BITS

with Bearing Guide

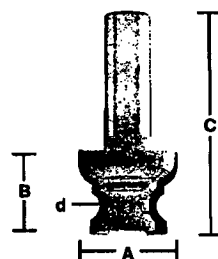


Order G3855 replacement bearing.

1/4" SHANK					
MODEL	CUTTER DIA. A	CUTTING LENGTH B	OVERALL LENGTH C	CUTTING WIDTH W	PRICE
C1301	1-1/2"	3/4"	2-1/4"	1/2"	\$24.95
1/2" SHANK					
MODEL	CUTTER DIA. A	CUTTING LENGTH B	OVERALL LENGTH C	CUTTING WIDTH W	PRICE
C1302	1-5/8"	7/8"	2-3/8"	9/16"	\$24.95

## CLASSICAL PALACE BITS

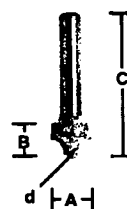
Safety Cutter



1/2" SHANK					
MODEL	CUTTER DIA. A	CUTTING LENGTH B	OVERALL LENGTH C	BEAD DIA. d	PRICE
C1262	1-1/8"	7/8"	2-3/8"	1/4"	\$19.95
C1263	1-3/8"	1"	2-1/2"	5/16"	\$21.95
C1264	1-5/8"	1-1/4"	2-3/4"	3/8"	\$23.95

## CLASSICAL PLUNGING BITS

Used to profile the face of a  
workpiece where a decorative  
look is needed.



1/4" SHANK					
MODEL	CUTTER DIA. A	CUTTING LENGTH B	OVERALL LENGTH C	BEAD DIA. d	PRICE
C1314	1/2"	7/16"	1-5/8"	1/8"	\$14.95
C1315	3/4"	9/16"	1-3/4"	7/32"	\$16.95
C1316	1-3/16"	13/16"	2"	9/32"	\$19.95
1/2" SHANK					
MODEL	CUTTER DIA. A	CUTTING LENGTH B	OVERALL LENGTH C	BEAD DIA. d	PRICE
C1655	1/2"	7/16"	1-5/8"	1/8"	\$14.95
C1656	3/4"	9/16"	1-3/4"	7/32"	\$16.95
C1657	1-3/16"	13/16"	2"	9/32"	\$19.95

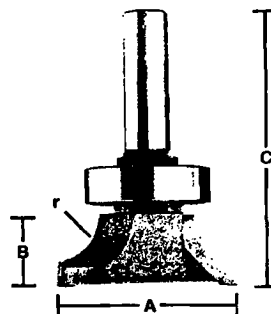
# INDUSTRIAL QUALITY CARBIDE TIPPED ROUTER BITS

MADE IN ISO 9002  
RATED FACTORY

**BUY 10 OR MORE ROUTER BITS OR SHAPER CUTTERS AND DEDUCT 10%**  
ROUTER BITS SHOWN AT APPROXIMATELY 50% SCALE

## UNDER ROUNDOVER BIT

with Guide Bearing



Used to profile the underside of solid surface countertop edges. Eliminates the need to flip cumbersome and heavy countertops and allows the router base to be well supported by the countertop.

Excellent for CORIAN® and other solid surface materials.

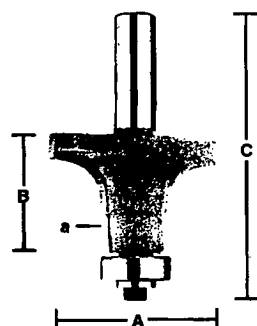


Order G3850 replacement bearing.

1/2" SHANK					
MODEL	CUTTER DIA. A	CUTTING LENGTH B	OVERALL LENGTH C	RADIUS F	PRICE
C1662	2-1/8"	3/4"	3"	3/8"	\$34.95

## OGEE BOWL BIT

with Guide Bearing



For solid surface material.



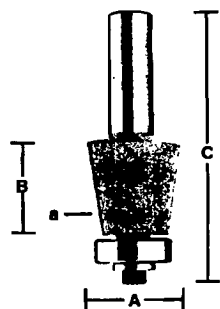
Order G3845 replacement bearing.

Excellent for CORIAN® and other solid surface materials.

1/2" SHANK					
MODEL	CUTTER DIA. A	CUTTING LENGTH B	OVERALL LENGTH C	ANGLE B	PRICE
C1663	2-1/4"	1-1/4"	3-1/4"	10°	\$39.95

## 10° BEVEL BOWL BIT

with Guide Bearing



For solid surface material.



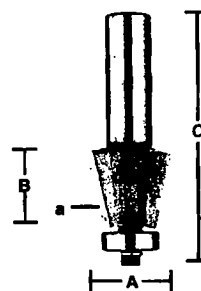
Order G3845 replacement bearing.

Excellent for CORIAN® and other solid surface materials.

1/2" SHANK					
MODEL	CUTTER DIA. A	CUTTING LENGTH B	OVERALL LENGTH C	ANGLE B	PRICE
C1664	1-1/4"	1"	3"	10°	\$17.95

## 15° BOWL EDGE BIT

with Guide Bearing

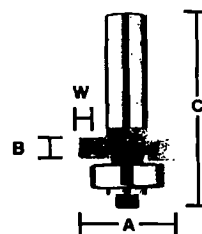


Excellent for CORIAN® and other solid surface materials.

1/2" SHANK					
MODEL	CUTTER DIA. A	CUTTING LENGTH B	OVERALL LENGTH C	ANGLE B	PRICE
C1503	1"	3/4"	2-5/8"	15°	\$19.95

## INLAY BITS

with Guide Bearing



Order G3857 replacement bearing.

Excellent for CORIAN® and other solid surface materials.

1/2" SHANK					
MODEL	CUTTER DIA. A	CUTTING LENGTH B	OVERALL LENGTH C	CUTTING WIDTH W	PRICE
C1504	1-1/4"	1/4"	2-1/4"	3/16"	\$15.95
C1505	1-1/4"	1/2"	2-1/2"	3/16"	\$17.95
C1506	1-1/4"	3/4"	2-3/4"	3/16"	\$22.95

## SINGLE FLUTE BIT

Designed for dadoing, trimming and rabbeting in man-made materials for counter tops. Single flute reduces heat and cleans out fast for high-performance routing.



Excellent for CORIAN® and other solid surface materials.

1/4" SHANK				
MODEL	CUTTER DIA. A	CUTTING LENGTH B	OVERALL LENGTH C	PRICE
C1514	3/8"	3/4"	2"	\$6.95

MADE IN ISO 9002  
RATED FACTORY

# INDUSTRIAL QUALITY CARBIDE TIPPED ROUTER BITS

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ROUTER BITS SHOWN AT APPROXIMATELY 50% SCALE

**Grizzly  
ROUTER BITS**

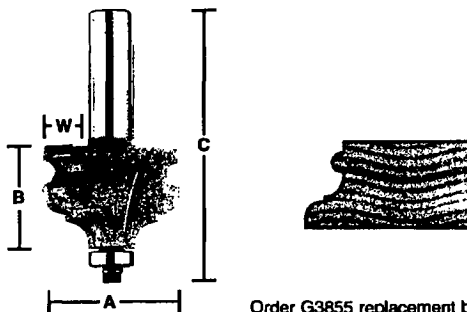
## FACE MOULDING BITS

These moulding and decorative shaped bits can make an endless variety of profiles for use on any project. They are great for built-up moulding, chair rails, stair cases, fine furniture, etc. These moulding router bits are an excellent choice for custom architectural millwork designs.

Use all or part of these cutters to make virtually any type of profile you want!

## BEAD / CLASSICAL BIT

with Guide Bearing



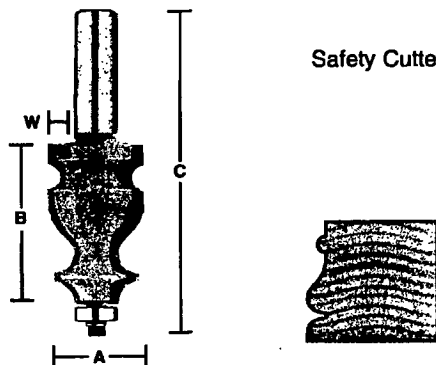
Order G3855 replacement bearing.

1/2" SHANK

MODEL	CUTTER DIA. A	CUTTING LENGTH B	OVERALL LENGTH C	CUTTING WIDTH W	PRICE
C1382	1-1/2"	1-1/8"	2-7/8"	1/2"	\$27.95

## FACE MOULDING BIT

Safety Cutter



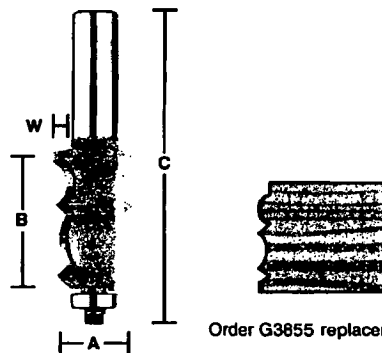
Order G3855 replacement bearing.

1/2" SHANK

MODEL	CUTTER DIA. A	CUTTING LENGTH B	OVERALL LENGTH C	CUTTING WIDTH W	PRICE
C1383	1-1/16"	1-3/4"	2-1/2"	1/4"	\$34.95

## FACE MOULDING BIT

with Guide Bearing



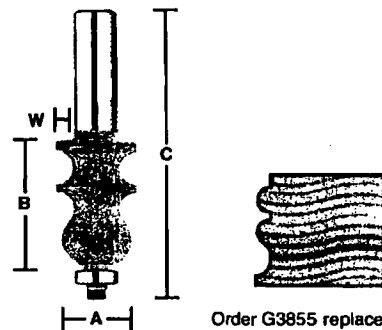
Order G3855 replacement bearing.

1/2" SHANK

MODEL	CUTTER DIA. A	CUTTING LENGTH B	OVERALL LENGTH C	CUTTING WIDTH W	PRICE
C1384	15/16"	1-3/8"	3-1/4"	1/4"	\$34.95

## FACE MOULDING BIT

with Guide Bearing

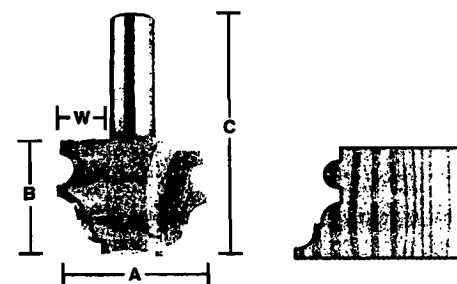


Order G3855 replacement bearing.

1/2" SHANK

MODEL	CUTTER DIA. A	CUTTING LENGTH B	OVERALL LENGTH C	CUTTING WIDTH W	PRICE
C1385	15/16"	1-3/8"	3-1/4"	1/4"	\$34.95

## MULTI FORM BIT



1/2" SHANK

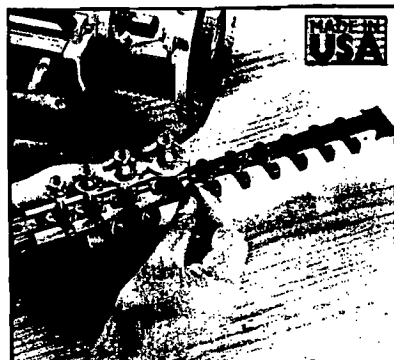
MODEL	CUTTER DIA. A	CUTTING LENGTH B	OVERALL LENGTH C	CUTTING WIDTH W	PRICE
C1390	1-3/4"	1-3/16"	2-5/8"	1/2"	\$34.95

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RATED FACTORY

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ROUTER BITS SHOWN AT APPROXIMATELY 50% SCALE

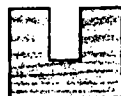
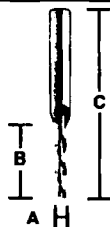


## ROUTER BIT HOLDERS

Versatile holder organizes and protects bits for easy access and storage. Locking cam-action accommodates 1/4" shank bits. Hang 'em on a wall or under a cabinet!

G6422 6-bit \$2.49  
G6423 10-bit \$3.95

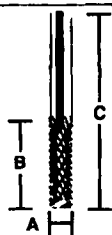
## SOLID CARBIDE SPIRAL DOWNCUT BITS



MADE IN  
USA

Due to the nature of solid carbide, the bits are not warranted against breakage.

1/4" SHANK				
MODEL	CUTTER DIA. A	CUTTING LENGTH B	OVERALL LENGTH C	PRICE
C1693	1/8"	3/8"	2"	\$15.95
C1694	3/16"	5/8"	2"	\$15.95
C1695	7/32"	3/4"	2"	\$16.95
C1696	1/4"	5/8"	2"	\$13.95
1/2" SHANK				
MODEL	CUTTER DIA. A	CUTTING LENGTH B	OVERALL LENGTH C	PRICE
C1697	5/16"	3/4"	3"	\$32.95
C1698	3/8"	1"	3"	\$32.95
C1699	1/2"	1-1/4"	3"	\$29.95



MADE IN  
USA

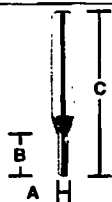
## SOLID CARBIDE ROUGH CUT BIT



Great for  
fiberglass!

Due to the nature of solid carbide, the bits are not warranted against breakage.

1/4" SHANK				
MODEL	CUTTER DIA. A	CUTTING LENGTH B	OVERALL LENGTH C	PRICE
C1453	1/4"	3/4"	2"	\$11.95



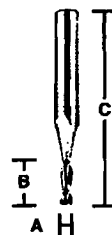
## SOLID CARBIDE STRAIGHT BITS

Single Flute



Due to the nature of solid carbide, the bits are not warranted against breakage.

1/4" SHANK				
MODEL	CUTTER DIA. A	CUTTING LENGTH B	OVERALL LENGTH C	PRICE
C1471	1/8"	3/8"	1-3/4"	\$9.95
C1472	5/32"	3/8"	1-3/4"	\$9.95
C1473	3/16"	3/8"	1-3/4"	\$9.95



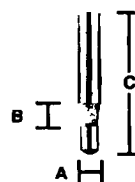
## SOLID CARBIDE SPIRAL UPCUT BITS



MADE IN  
USA

Due to the nature of solid carbide, the bits are not warranted against breakage.

1/4" SHANK				
MODEL	CUTTER DIA. A	CUTTING LENGTH B	OVERALL LENGTH C	PRICE
C1441	1/8"	3/8"	2"	\$14.95
C1442	3/16"	5/8"	2"	\$14.95
C1454	7/32"	3/4"	2"	\$16.95
C1443	1/4"	3/4"	2"	\$14.95
1/2" SHANK				
MODEL	CUTTER DIA. A	CUTTING LENGTH B	OVERALL LENGTH C	PRICE
C1559	5/16"	7/8"	3"	\$24.95
C1446	3/8"	1"	3"	\$32.95
C1447	1/2"	1"	3"	\$29.95

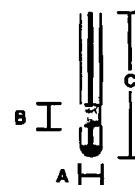


## SOLID CARBIDE BEVEL TRIM LAMINATE BIT



Due to the nature of solid carbide, the bits are not warranted against breakage.

1/4" SHANK				
MODEL	CUTTER DIA. A	CUTTING LENGTH B	OVERALL LENGTH C	PRICE
C1456	1/4"	1/4"	1-1/2"	\$6.95

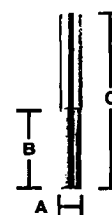


## SOLID CARBIDE FLUSH TRIM LAMINATE BIT



Due to the nature of solid carbide, the bits are not warranted against breakage.

1/4" SHANK				
MODEL	CUTTER DIA. A	CUTTING LENGTH B	OVERALL LENGTH C	PRICE
C1455	1/4"	5/16"	1-1/2"	\$6.95



## SOLID CARBIDE STRAIGHT BITS



Due to the nature of solid carbide, the bits are not warranted against breakage.

1/4" SHANK				
MODEL	CUTTER DIA. A	CUTTING LENGTH B	OVERALL LENGTH C	PRICE
C1452	1/4"	3/4"	2"	\$14.95

MADE IN ISO 9002  
RATED FACTORY

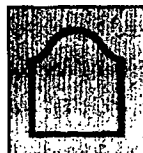
# INDUSTRIAL QUALITY CARBIDE TIPPED ROUTER BITS

**BUY 10 OR MORE ROUTER BITS OR SHAPER CUTTERS AND DEDUCT 10%**  
ROUTER BITS SHOWN AT APPROXIMATELY 50% SCALE

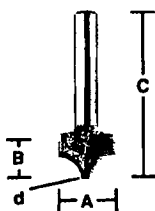
**Grizzly  
ROUTER BITS**

## PANEL BORING BITS

These Panel Boring Bits are used to create decorative designs on cabinet and door fronts. For use with Melamine, MDF and other wood composites.



## BEADING / ROUNDROVER BITS



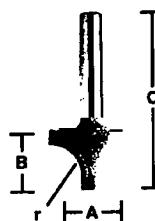
1/4" SHANK

MODEL	CUTTER DIA. A	CUTTING LENGTH B	OVERALL LENGTH C	TIP DIAMETER d	PRICE
C1318	3/8"	7/16"	1-3/4"	1/8"	\$10.95
C1319	5/8"	1/2"	1-3/4"	1/8"	\$12.95
C1320	7/8"	9/16"	1-3/4"	3/16"	\$15.95
C1321	1"	5/8"	1-7/8"	1/4"	\$17.95

1/2" SHANK

MODEL	CUTTER DIA. A	CUTTING LENGTH B	OVERALL LENGTH C	TIP DIAMETER d	PRICE
C1322	3/8"	7/16"	2-1/4"	1/8"	\$10.95
C1323	5/8"	7/16"	1-7/8"	1/8"	\$12.95
C1324	7/8"	1/2"	2"	3/16"	\$17.95

## PLUNGING ROUNDROVER BITS



C1630



C1361

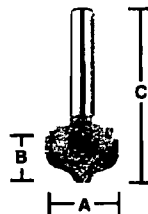
1/4" SHANK

MODEL	CUTTER DIA. A	CUTTING LENGTH B	OVERALL LENGTH C	RADIUS r	PRICE
C1630	1"	5/8"	2"	3/8"	\$17.95

1/2" SHANK

MODEL	CUTTER DIA. A	CUTTING LENGTH B	OVERALL LENGTH C	RADIUS r	PRICE
C1631	1"	5/8"	2"	3/8"	\$17.95

## PLUNGING OGEE BITS



Safety Cutter



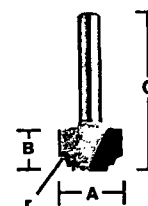
1/4" SHANK

MODEL	CUTTER DIA. A	CUTTING LENGTH B	OVERALL LENGTH C	PRICE
C1632	13/16"	7/16"	1-5/8"	\$19.95

1/2" SHANK

MODEL	CUTTER DIA. A	CUTTING LENGTH B	OVERALL LENGTH C	PRICE
C1633	13/16"	7/16"	1-5/8"	\$19.95

## PLUNGING QUARTER BEAD BITS



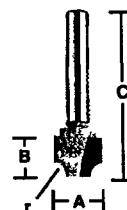
1/4" SHANK

MODEL	CUTTER DIA. A	CUTTING LENGTH B	OVERALL LENGTH C	RADIUS r	PRICE
C1634	11/16"	7/16"	1-3/16"	3/32"	\$19.95

1/2" SHANK

MODEL	CUTTER DIA. A	CUTTING LENGTH B	OVERALL LENGTH C	RADIUS r	PRICE
C1635	11/16"	7/16"	1-3/16"	3/32"	\$22.95

## PLUNGING BEAD BITS



1/4" SHANK

MODEL	CUTTER DIA. A	CUTTING LENGTH B	OVERALL LENGTH C	RADIUS r	PRICE
C1636	1/2"	3/8"	1-7/8"	1/8"	\$17.95

1/2" SHANK

MODEL	CUTTER DIA. A	CUTTING LENGTH B	OVERALL LENGTH C	RADIUS r	PRICE
C1637	1/2"	3/8"	1-7/8"	1/8"	\$17.95

CALL 24 HOURS A DAY FROM ANYWHERE IN THE U.S.A. 1-800-523-4777

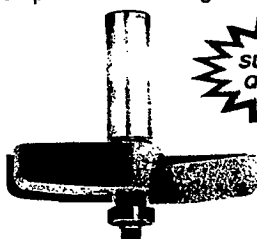
# INDUSTRIAL QUALITY CARBIDE TIPPED ROUTER BITS

MADE IN ISO 9002  
RATED FACTORY

**BUY 10 OR MORE ROUTER BITS OR SHAPER CUTTERS AND DEDUCT 10%**  
ROUTER BITS SHOWN AT APPROXIMATELY 50% SCALE

## 2 5/8" PANEL BITS

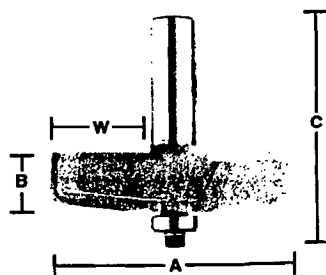
We offer our panel bits in 5 popular profiles. Engineered with a 10° upshear for smooth cutting. Cutters produce a 7/8" reveal. Use 3/4" stock for best results. We recommend that you use a 3 H.P. router for this work with a router table. Complete with bearing. 2mm thick carbide!



For use with a router table.

**ONLY \$29.95**

## 5° FACE CUT BIT with Guide Bearing

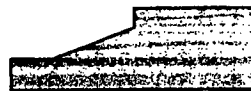
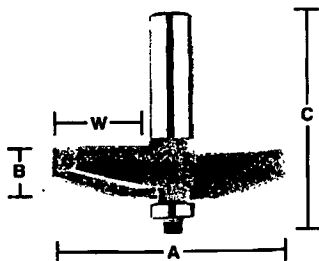


For use with a router table.

Order G3855 replacement bearing.

1/2" SHANK					
MODEL	CUTTER DIA. A	CUTTING LENGTH B	OVERALL LENGTH C	CUTTING WIDTH W	PRICE
C1399	2-5/8"	1/2"	2-1/4"	1-1/16"	\$29.95

## 15° FACE CUT BIT with Guide Bearing

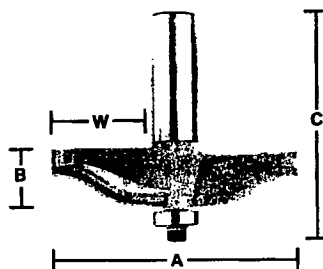


For use with a router table.

Order G3855 replacement bearing.

1/2" SHANK					
MODEL	CUTTER DIA. A	CUTTING LENGTH B	OVERALL LENGTH C	CUTTING WIDTH W	PRICE
C1400	2-5/8"	7/16"	2-1/4"	1-1/16"	\$29.95

## OGEET BIT with Guide Bearing

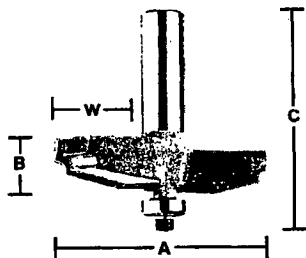


For use with a router table.

Order G3855 replacement bearing.

1/2" SHANK					
MODEL	CUTTER DIA. A	CUTTING LENGTH B	OVERALL LENGTH C	CUTTING WIDTH W	PRICE
C1401	2-5/8"	9/16"	2-1/4"	1-1/16"	\$29.95

## 12° FACE AND QUARTER ROUND BIT with Guide Bearing

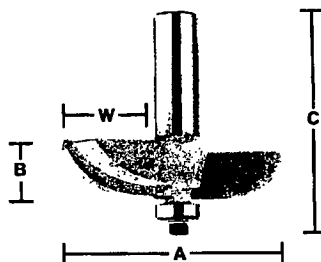


For use with a router table.

Order G3855 replacement bearing.

1/2" SHANK					
MODEL	CUTTER DIA. A	CUTTING LENGTH B	OVERALL LENGTH C	CUTTING WIDTH W	PRICE
C1402	2-5/8"	7/16"	2-1/4"	1-1/16"	\$29.95

## CONVEX BIT with Guide Bearing



For use with a router table.

Order G3855 replacement bearing.

1/2" SHANK					
MODEL	CUTTER DIA. A	CUTTING LENGTH B	OVERALL LENGTH C	CUTTING WIDTH W	PRICE
C1403	2-5/8"	1/2"	2-1/4"	1-1/16"	\$29.95



MADE IN ISO 9002  
RATED FACTORY

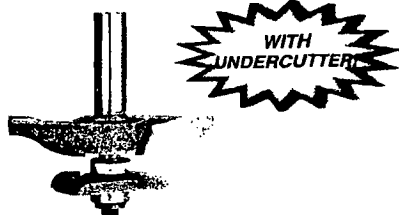
# INDUSTRIAL QUALITY CARBIDE TIPPED ROUTER BITS

BUY 10 OR MORE ROUTER BITS OR SHAPER CUTTERS AND DEDUCT 10%  
ROUTER BITS SHOWN AT APPROXIMATELY 50% SCALE

GINZANO  
ROUTER BITS

## 3" PANEL BITS

These panel bits can be used with  $\frac{5}{8}$ " -  $\frac{3}{4}$ " stock. Undercutter lets you produce flush panels. A 10° upshear removes material fast! Available in 5 profiles which produce a 1" reveal. Assembly comes complete with end-mounted bearing. We suggest using a 3 H.P. router with a router table. 2mm thick carbide!

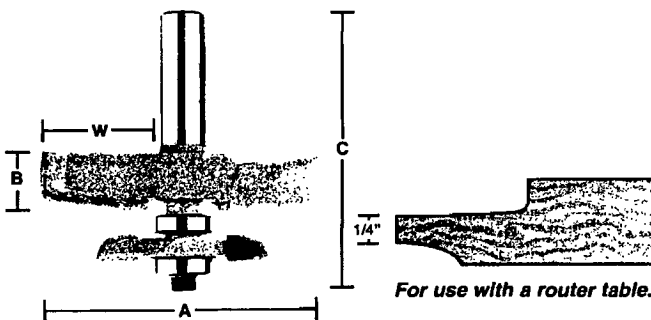


For use with a router table.

ONLY \$59.95

## 5° FACE CUT BIT

with Bearing Guide



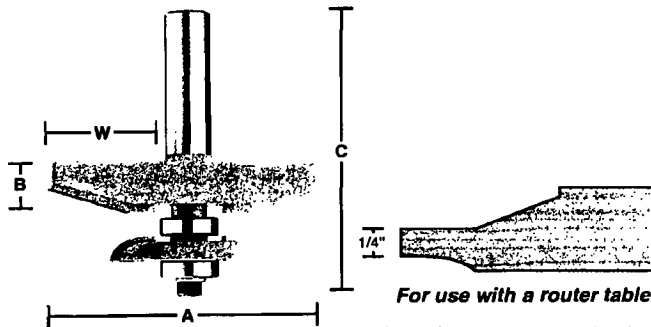
Order G3854 replacement bearing.

1/2" SHANK

MODEL	CUTTER DIA. A	CUTTING LENGTH B	OVERALL LENGTH C	CUTTING WIDTH W	PRICE
C1407	3-1/16"	1/2"	3"	1-1/4"	\$59.95

## 15° FACE CUT BIT

with Bearing Guide



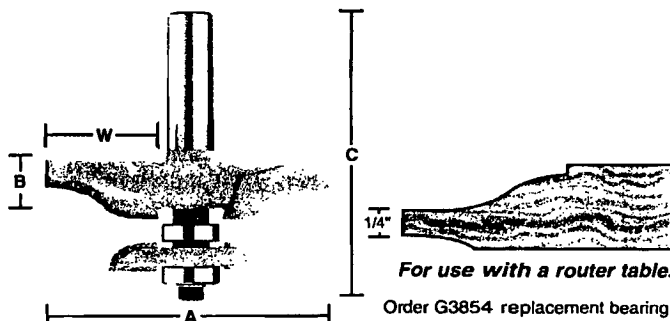
Order G3854 replacement bearing.

1/2" SHANK

MODEL	CUTTER DIA. A	CUTTING LENGTH B	OVERALL LENGTH C	CUTTING WIDTH W	PRICE
C1408	3-1/16"	1/2"	3"	1-1/4"	\$59.95

## OGEE BIT

with Bearing Guide



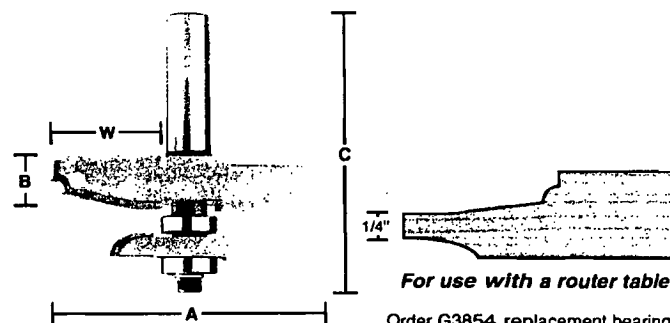
Order G3854 replacement bearing.

1/2" SHANK

MODEL	CUTTER DIA. A	CUTTING LENGTH B	OVERALL LENGTH C	CUTTING WIDTH W	PRICE
C1409	3-1/8"	9/16"	3"	1-1/4"	\$59.95

## 12° FACE AND QUARTER ROUND BIT

with Bearing Guide



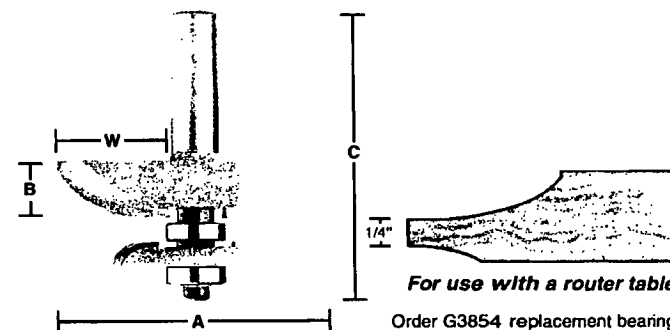
Order G3854 replacement bearing.

1/2" SHANK

MODEL	CUTTER DIA. A	CUTTING LENGTH B	OVERALL LENGTH C	CUTTING WIDTH W	PRICE
C1410	3-1/16"	1/2"	3"	1-1/4"	\$59.95

## CONVEX BIT

with Bearing Guide



Order G3854 replacement bearing.

1/2" SHANK

MODEL	CUTTER DIA. A	CUTTING LENGTH B	OVERALL LENGTH C	CUTTING WIDTH W	PRICE
C1411	3-1/8"	1/2"	3"	1-1/4"	\$59.95

CALL 24 HOURS A DAY FROM ANYWHERE IN THE U.S.A. 1-800-523-4777

**GRIZZLY®  
ROUTER BITS**

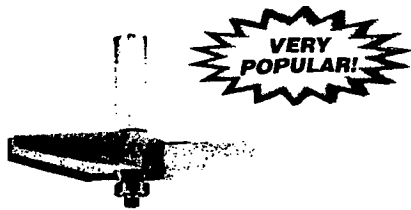
# INDUSTRIAL QUALITY CARBIDE TIPPED ROUTER BITS

MADE IN ISO 9002  
RATED FACTORY

**BUY 10 OR MORE ROUTER BITS OR SHAPER CUTTERS AND DEDUCT 10%**  
ROUTER BITS SHOWN AT APPROXIMATELY 50% SCALE

## 3 1/2" PANEL BITS

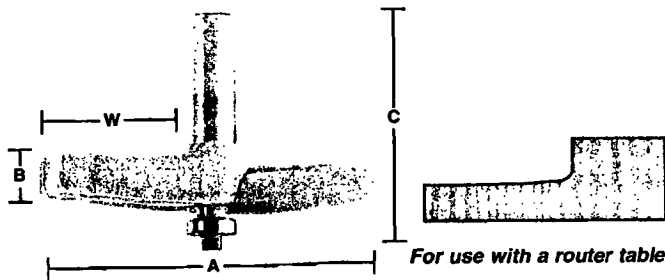
Our 3 1/2" O.D. panel bits produce a 1 1/4" reveal and are offered in 5 profiles. Use of a 3 H.P. router is recommended with a router table. Large bits are for heavy-duty use. These bits also have a 10° upshear for quick chip removal. Complete with bearing guide. 2mm thick carbide!



For use with a router table.

**ONLY \$49.95**

## 5° FACE CUT BIT with Guide Bearing

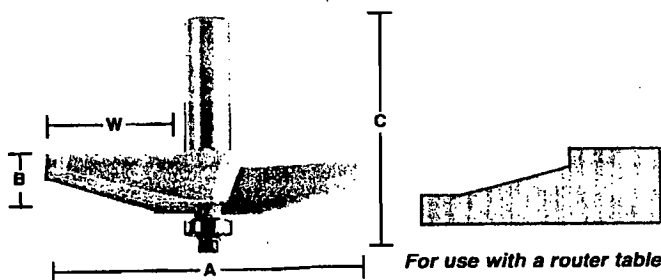


For use with a router table.

Order G3855 replacement bearing.

1/2" SHANK					
MODEL	CUTTER DIA. A	CUTTING LENGTH B	OVERALL LENGTH C	CUTTING WIDTH W	PRICE
C1415	3-1/2"	9/16"	2-1/2"	1-1/2"	\$49.95

## 15° FACE CUT BIT with Guide Bearing

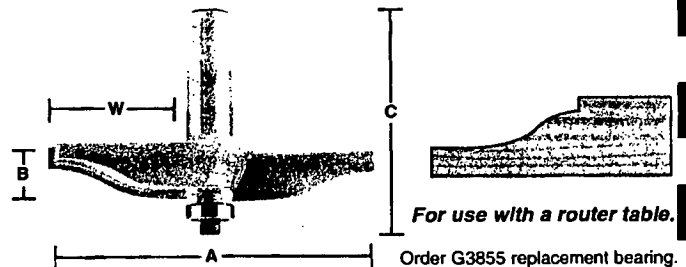


For use with a router table.

Order G3855 replacement bearing.

1/2" SHANK					
MODEL	CUTTER DIA. A	CUTTING LENGTH B	OVERALL LENGTH C	CUTTING WIDTH W	PRICE
C1416	3-1/2"	9/16"	2-1/2"	1-1/2"	\$49.95

## OGEE BIT with Guide Bearing

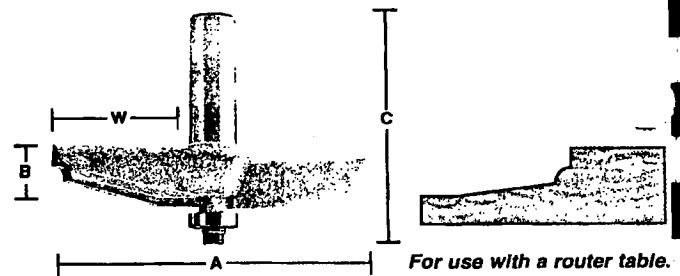


For use with a router table.

Order G3855 replacement bearing.

1/2" SHANK					
MODEL	CUTTER DIA. A	CUTTING LENGTH B	OVERALL LENGTH C	CUTTING WIDTH W	PRICE
C1417	3-1/2"	1/2"	2-1/2"	1-1/2"	\$49.95

## 12° FACE AND QUARTER ROUND BIT with Guide Bearing

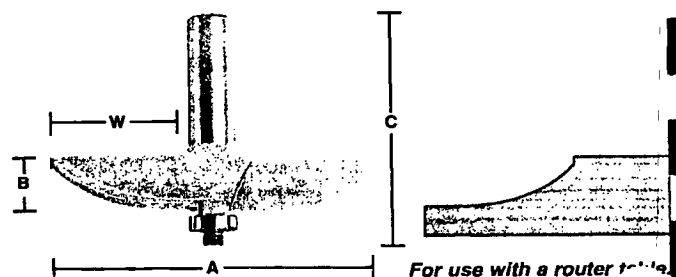


For use with a router table.

Order G3855 replacement bearing.

1/2" SHANK					
MODEL	CUTTER DIA. A	CUTTING LENGTH B	OVERALL LENGTH C	CUTTING WIDTH W	PRICE
C1418	3-1/2"	9/16"	2-1/2"	1-1/2"	\$49.95

## CONVEX BIT with Guide Bearing



For use with a router table.

Order G3855 replacement bearing.

1/2" SHANK					
MODEL	CUTTER DIA. A	CUTTING LENGTH B	OVERALL LENGTH C	CUTTING WIDTH W	PRICE
C1419	3-1/2"	9/16"	2-1/2"	1-1/2"	\$49.95

MADE IN ISO 9002  
RATED FACTORY

# INDUSTRIAL QUALITY CARBIDE TIPPED ROUTER BITS

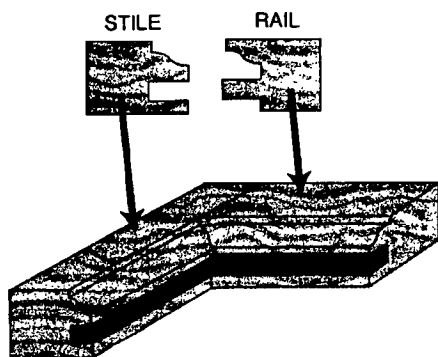
BUY 10 OR MORE ROUTER BITS OR SHAPER CUTTERS AND DEDUCT 10%  
ROUTER BITS SHOWN AT APPROXIMATELY 50% SCALE

**Grizzly**  
ROUTER BITS

## CARBIDE-TIPPED REVERSIBLE STILE & RAIL

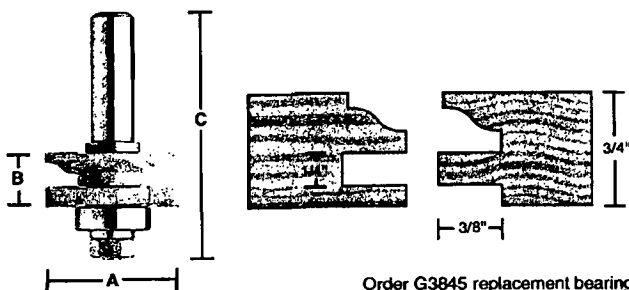
Just alternate the bearing guide and cutting surfaces to create matching stiles and rails. These tough, carbide-tipped router bits provide all you need to make handsome raised panel doors for kitchens and bathrooms. Quick and easy to reverse, these bits are available in a number of attractive designs to compliment a variety of traditional and contemporary cabinetry. Scaled for 3/4" door frames.

Far superior to others on the market!



**Only \$49.95  
Per Set**

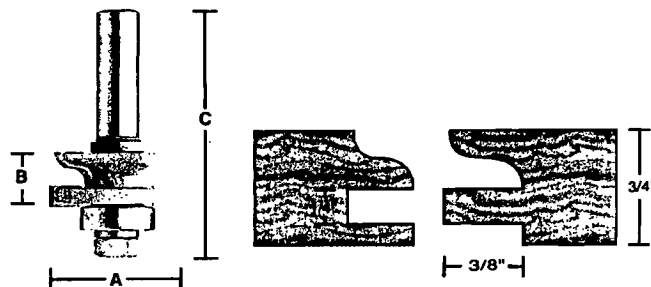
## REVERSIBLE STILE & RAIL - ROMAN OGEE with Guide Bearing



Order G3845 replacement bearing.

1/2" SHANK				
MODEL	CUTTER DIA. A	CUTTING LENGTH B	OVERALL LENGTH C	PRICE
C1392	1-5/8"	13/16"	2-7/8"	\$49.95

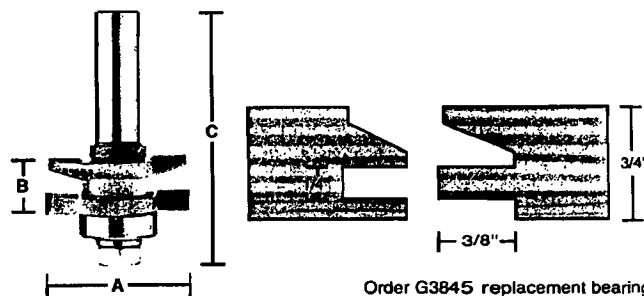
## REVERSIBLE STILE & RAIL - OGEE with Guide Bearing



Order G3845 replacement bearing.

1/2" SHANK				
MODEL	CUTTER DIA. A	CUTTING LENGTH B	OVERALL LENGTH C	PRICE
C1652	1-5/8"	13/16"	2-7/8"	\$49.95

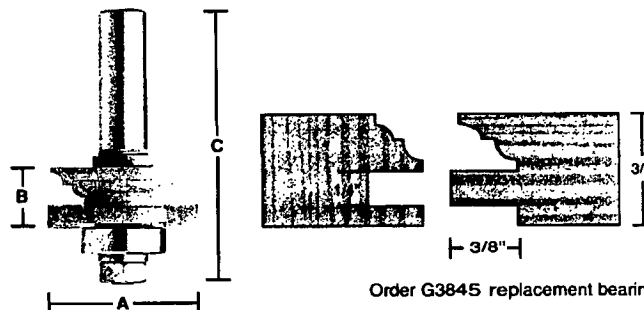
## REVERSIBLE STILE & RAIL - BEVELED with Guide Bearing



Order G3845 replacement bearing.

1/2" SHANK				
MODEL	CUTTER DIA. A	CUTTING LENGTH B	OVERALL LENGTH C	PRICE
C1653	1-5/8"	13/16"	2-7/8"	\$49.95

## REVERSIBLE STILE & RAIL - CLASSICAL with Guide Bearing



Order G3845 replacement bearing.

1/2" SHANK				
MODEL	CUTTER DIA. A	CUTTING LENGTH B	OVERALL LENGTH C	PRICE
C1654	1-5/8"	13/16"	2-7/8"	\$49.95

CALL 24 HOURS A DAY FROM ANYWHERE IN THE U.S.A. 1-800-523-4777

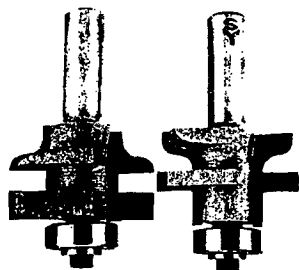
## INDUSTRIAL QUALITY CARBIDE TIPPED ROUTER BITS

MADE IN ISO 9002  
RATED FACTORY

**BUY 10 OR MORE ROUTER BITS OR SHAPER CUTTERS AND DEDUCT 10%**  
ROUTER BITS SHOWN AT APPROXIMATELY 50% SCALE

### CARBIDE TIPPED STILE & RAIL SETS — 2-PIECE

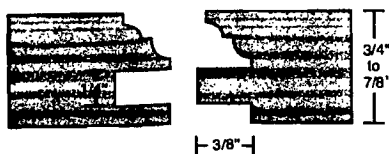
The redesigned Grizzly® brand Stile and Rail sets have been enlarged to add strength, increase rim speed and cutting surface, which makes for a smoother finish and longer life. Save set-up time by using 2 routers. Comes with bearing guides. A template must be used for shaping irregular stock.



*Note: These bits are much larger and have thicker carbide than others currently on the market!*

### STILE & RAIL SET - CLASSICAL 2 Flutes

Classic Greco-Roman styling makes this two-piece Stile and Rail Set an outstanding choice for traditional raised panel designs. Scaled for 3/4" to 1" thick door frames. We recommend using a 3 H.P. router with these bits.

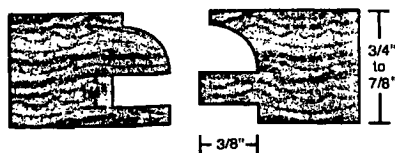


Order G3845 replacement bearing.

1/2" SHANK				
MODEL	CUTTER DIA. A	CUTTING LENGTH B	OVERALL LENGTH C	PRICE
C1651	1-3/4"	1-1/8"	3-1/8"	\$99.95

### STILE & RAIL SET - QUARTER ROUND 2 Flutes

A favorite for contemporary styled cabinetry, this Stile and Rail set is perfect for 3/4" to 1" thick door frames. A 3 H.P. router is recommended for use with these bearing-guided bits:

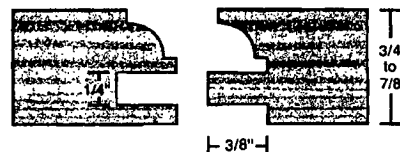


Order G3845 replacement bearing.

1/2" SHANK				
MODEL	CUTTER DIA. A	CUTTING LENGTH B	OVERALL LENGTH C	PRICE
C1393	1-3/4"	1-1/8"	3-1/8"	\$99.95

### STILE & RAIL SET - QUARTER BEAD 2 Flutes

A more-traditional version of the popular Quarter Round design. Scaled for 3/4" to 1" thick door frames. A 3 H.P. router is advised for use with this set.

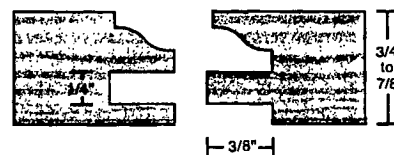


Order G3845 replacement bearing.

1/2" SHANK				
MODEL	CUTTER DIA. A	CUTTING LENGTH B	OVERALL LENGTH C	PRICE
C1394	1-3/4"	1-1/8"	3-1/8"	\$99.95

### STILE & RAIL SET - ROMAN OGEE 2 Flutes

Another classic design, influenced by the Roman architectural style. For 3/4" to 1" thick door frames. We recommend using a 3 H.P. router with these bits.

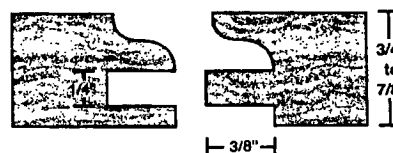


Order G3845 replacement bearing.

1/2" SHANK				
MODEL	CUTTER DIA. A	CUTTING LENGTH B	OVERALL LENGTH C	PRICE
C1395	1-3/4"	1-1/8"	3-1/8"	\$99.95

### STILE & RAIL SET - OGEE 2 Flutes

Prominent in Gothic architecture, the smooth flowing lines of the Ogee makes it ideal for a wide range of cabinet styles. For 3/4" to 1" thick door frames. 3 H.P. router recommended.



Order G3845 replacement bearing.

1/2" SHANK				
MODEL	CUTTER DIA. A	CUTTING LENGTH B	OVERALL LENGTH C	PRICE
C1396	1-3/4"	1-1/8"	3-1/8"	\$99.95

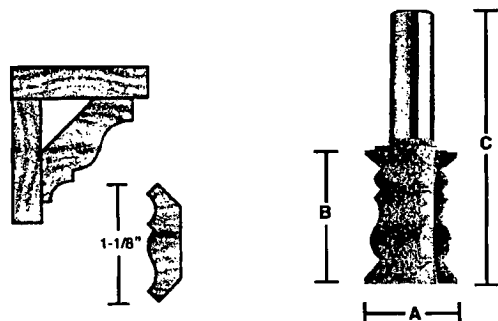
MADE IN ISO 9002  
RATED FACTORY

# INDUSTRIAL QUALITY CARBIDE TIPPED ROUTER BITS

BUY 10 OR MORE ROUTER BITS OR SHAPER CUTTERS AND DEDUCT 10%  
ROUTER BITS SHOWN AT APPROXIMATELY 50% SCALE

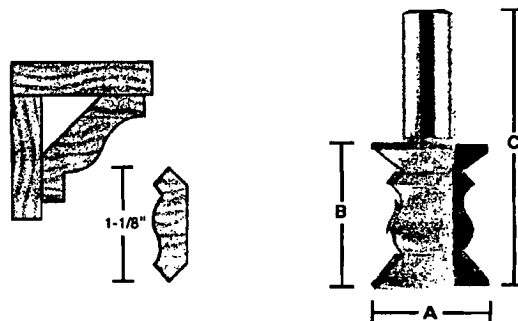
**Grizzly**  
ROUTER BITS

## CROWN MOULDING BIT



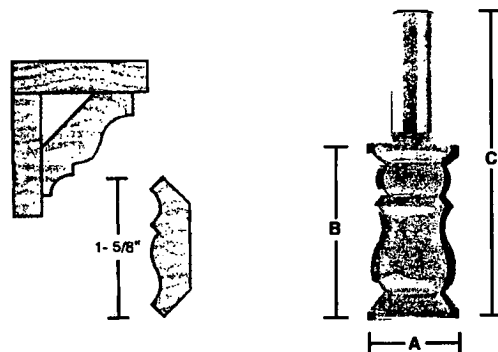
1/2" SHANK				
MODEL	CUTTER DIA. A	CUTTING LENGTH B	OVERALL LENGTH C	PRICE
C1522	1-1/8"	1-1/2"	3"	\$29.95

## CROWN MOULDING BIT



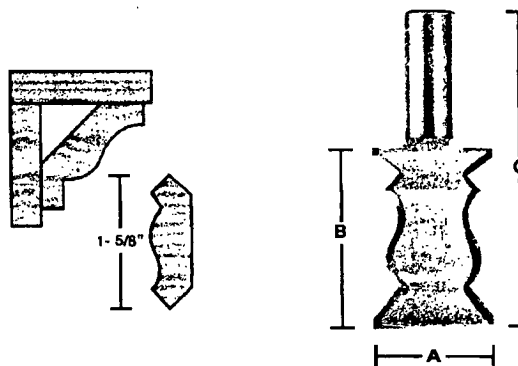
1/2" SHANK				
MODEL	CUTTER DIA. A	CUTTING LENGTH B	OVERALL LENGTH C	PRICE
C1525	1-1/8"	1-1/2"	3"	\$29.95

## CROWN MOULDING BIT



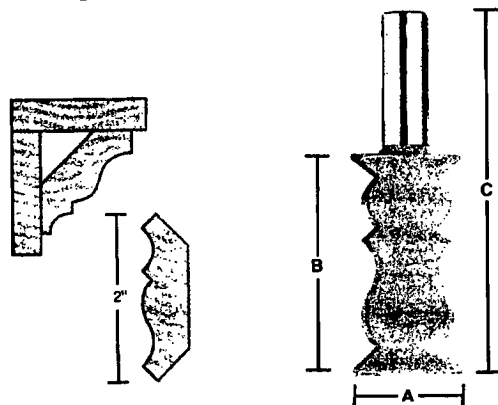
1/2" SHANK				
MODEL	CUTTER DIA. A	CUTTING LENGTH B	OVERALL LENGTH C	PRICE
C1521	1-1/8"	1-7/8"	3-3/8"	\$34.95

## CROWN MOULDING BIT



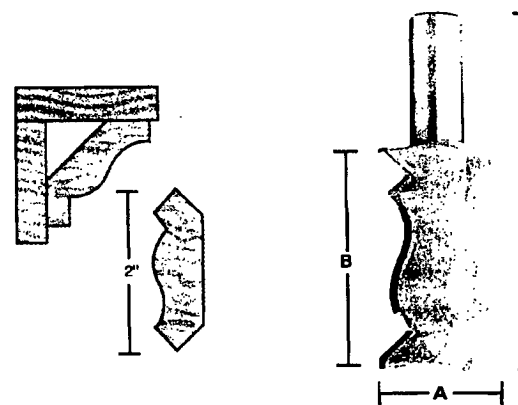
1/2" SHANK				
MODEL	CUTTER DIA. A	CUTTING LENGTH B	OVERALL LENGTH C	PRICE
C1524	1-1/8"	1-7/8"	3-3/8"	\$34.95

## CROWN MOULDING BIT



1/2" SHANK				
MODEL	CUTTER DIA. A	CUTTING LENGTH B	OVERALL LENGTH C	PRICE
C1520	1-3/16"	2-1/4"	3-3/4"	\$38.95

## CROWN MOULDING BIT



1/2" SHANK				
MODEL	CUTTER DIA. A	CUTTING LENGTH B	OVERALL LENGTH C	PRICE
C1523	1-3/16"	2-1/4"	3-3/4"	\$38.95

CALL 24 HOURS A DAY FROM ANYWHERE IN THE U.S.A. 1-800-523-4777

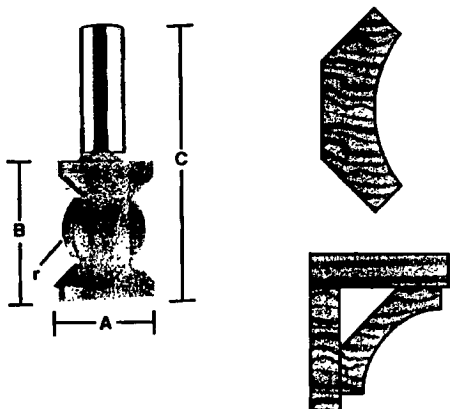
# INDUSTRIAL QUALITY CARBIDE TIPPED ROUTER BITS

MADE IN ISO 9002  
RATED FACTORY

**BUY 10 OR MORE ROUTER BITS OR SHAPER CUTTERS AND DEDUCT 10%**  
ROUTER BITS SHOWN AT APPROXIMATELY 50% SCALE

## COVE MOULDING BITS

This assortment of cove moulding router bits gives you the ability to mill your own full-scale trim with your router.

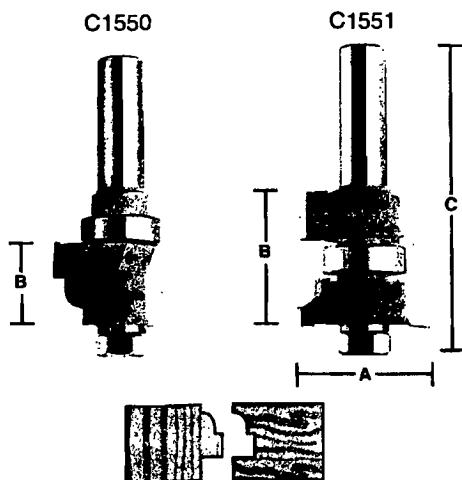


1/2" SHANK					
MODEL	CUTTER DIA. A	CUTTING LENGTH B	OVERALL LENGTH C	RADIUS T	PRICE
C1529	7/8"	1-1/2"	3"	1/2"	\$24.95
C1528	1"	1-5/8"	3-1/8"	3/4"	\$29.95
C1527	1-1/8"	1-7/8"	3-3/8"	1-3/16"	\$34.95
C1526	1-1/8"	2-1/4"	3-3/4"	1-7/8"	\$38.95

## WINDOW SASH SET

Bead with Guide Bearing

Bead style window and sash sets are made with the same quality as our Ogee set. Another classic profile!



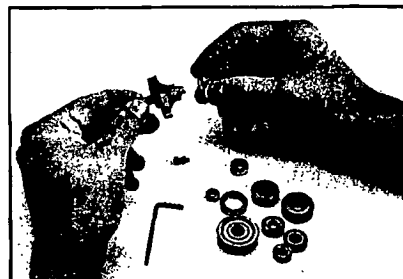
2-Piece Set C1552 \$89.95  
Save by ordering as a set!

Order G3845 replacement bearing.

1/2" SHANK				
MODEL	CUTTER DIA. A	CUTTING LENGTH B	OVERALL LENGTH C	PRICE
C1550	1-1/2"	7/8"	3-1/4"	\$49.95
C1551	1-1/2"	1-3/8"	3-1/4"	\$49.95

## REPLACEMENT BEARINGS (ROUTER BITS)

These high quality router bit bearings stand up to heavy use and can be used with other manufacturer's bits. Some of our bits can use different size bearings so check this out carefully.

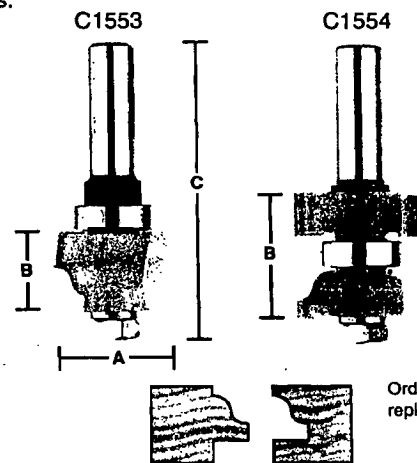


MODEL	SIZE	PRICE
G3845	22mm x 8mm	\$6.95
G3846	3/8" x 3/16"	\$4.95
G3847	1/2" x 3/16"	\$4.95
G3848	16mm x 5mm	\$5.95
G3849	19mm x 5mm	\$5.95
G3850	35mm x 17mm	\$8.95
G3851	10mm x 5mm	\$4.95
G3852	3/4" x 1/4"	\$5.95
G3853	3/4" x 1/2"	\$1.95
G3854	5/8" x 1/4"	\$5.95
G3855	13mm x 5mm	\$5.50
G3856	1/2" x 1/4"	\$5.50
G3858	28mm x 8mm	\$5.95

## WINDOW SASH SET

Ogee with Guide Bearing

Customize your home with these classic Ogee style window and sash cutters.



2-Piece Set C1555 \$89.95  
Save by ordering as a set!

Order G3845 replacement bearing.

1/2" SHANK				
MODEL	CUTTER DIA. A	CUTTING LENGTH B	OVERALL LENGTH C	PRICE
C1553	1-1/2"	7/8"	3-1/4"	\$49.95
C1554	1-1/2"	1-3/8"	3-1/4"	\$49.95

MADE IN ISO 9002  
RATED FACTORY

# INDUSTRIAL QUALITY CARBIDE TIPPED ROUTER BITS

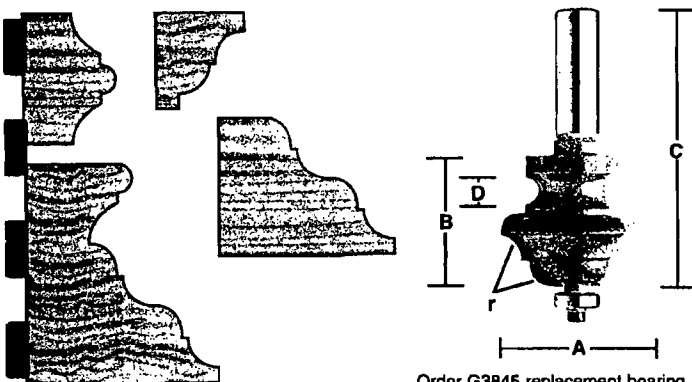
BUY 10 OR MORE ROUTER BITS OR SHAPER CUTTERS AND DEDUCT 10%  
ROUTER BITS SHOWN AT APPROXIMATELY 50% SCALE

**Grizzly  
ROUTER BITS**

## ANTI-KICKBACK MULTIFORM BIT

With Guide Bearing

Beautiful mouldings and patterns are limited only by your imagination. This carbide-tipped bit produces wonderful custom work!



Order G3845 replacement bearing.

1/2" SHANK						
MODEL	CUTTER DIA. A	CUTTING LENGTH B	SHANK LENGTH C	BEAD DIA. D	RADIUS R	PRICE
C1791	1-3/4"	1-1/2"	1-1/2"	3/8"	9/32"	\$39.95

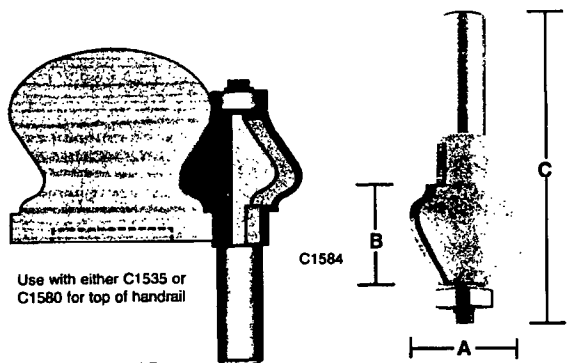
## HANDRAIL BIT SETS

We developed two router bit sets for making handrails with your 3 H.P. router. These bits are a must if your job calls for curved handrails or custom handrail fittings. These bits may also be used separately to create decorative mouldings and trim. Complete with guide bearing. Mix and match bits for the look you want!



### OPTIONAL FINGER GRIP

With Guide Bearing



Use with either C1535 or C1580 for top of handrail

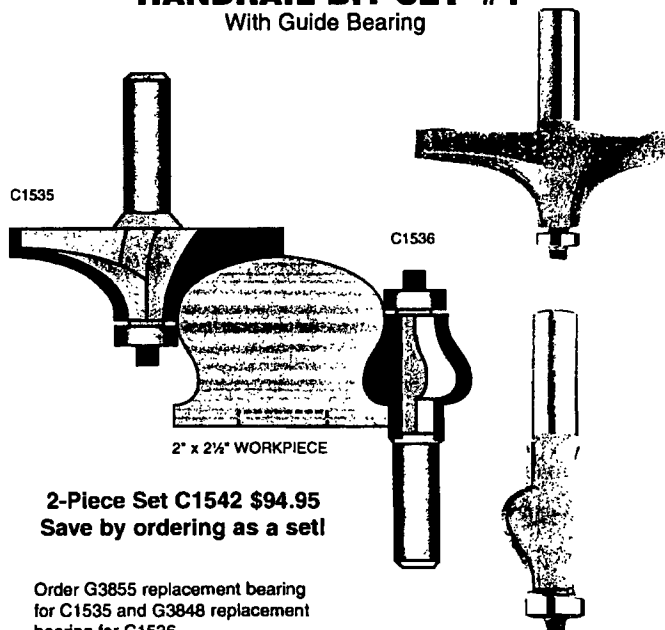
1 1/4" x 2 1/4" WORKPIECE

Order G3848 replacement bearing.

1/2" SHANK				
MODEL	CUTTER DIA. A	CUTTING LENGTH B	OVERALL LENGTH C	PRICE
C1584	1-1/4"	1-1/2"	3-1/4"	\$39.95

## HANDRAIL BIT SET #1

With Guide Bearing



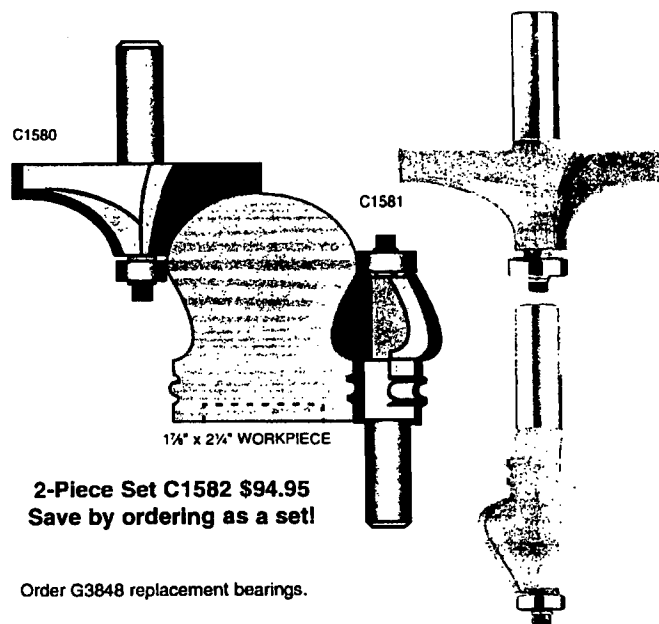
2-Piece Set C1542 \$94.95  
Save by ordering as a set!

Order G3855 replacement bearing for C1535 and G3848 replacement bearing for C1536.

1/2" SHANK				
MODEL	CUTTER DIA. A	CUTTING LENGTH B	OVERALL LENGTH C	PRICE
C1535	3-1/8"	1-1/8"	3"	\$59.95
C1536	1-1/8"	1-1/2"	3-1/4"	\$39.95

## HANDRAIL BIT SET #2

With Guide Bearing



2-Piece Set C1582 \$94.95  
Save by ordering as a set!

Order G3848 replacement bearings.

1/2" SHANK				
MODEL	CUTTER DIA. A	CUTTING LENGTH B	OVERALL LENGTH C	PRICE
C1580	2-3/4"	1-1/8"	3"	\$59.95
C1581	1-1/4"	1-1/2"	3-1/4"	\$39.95

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## SUPER-DUTY

### MICRO GRAIN CARBIDE TIPPED ROUTER BITS

**BUY 10 OR MORE ROUTER BITS OR SHAPER CUTTERS AND DEDUCT 10%  
ROUTER BITS SHOWN AT APPROXIMATELY 50% SCALE**

MADE IN ISO 9002  
RATED FACTORY



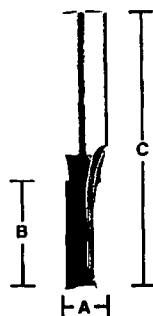
Sometimes you want the best money can buy; sometimes your project requires you to use the best router bits made. If so, these router bits fit the bill!

Starting with a better quality steel for the bodies (SAE4140), we heat treat them to the appropriate hardness and apply K10 micro grain carbide. We then precision grind the blades to 800 grit (using the wet grinding process) so that they are razor sharp and then finish them with a baked on metallic paint. These router bits are made for us and to our exacting specifications in an ISO 9002 rated factory.

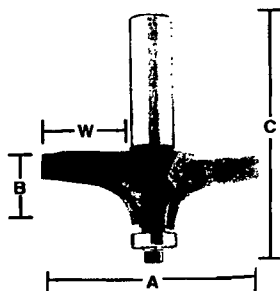
**TRY ONE - AND SEE FOR YOURSELF!**

### DOUBLE FLUTED STRAIGHT BITS

Used for cutting dadoes, rabbets, circles and other general purpose routing. Can be used in solid wood, plywood, certain plastics and laminated material. Use shortest length (B) for work to be done.



1/4" SHANK				
MODEL	CUTTER DIA. A	CUTTING LENGTH B	OVERALL LENGTH C	PRICE
C1001Z	1/4"	3/4"	2"	\$9.95
C1002Z	5/16"	11/16"	2"	\$9.95
C1003Z	3/8"	3/4"	2"	\$9.95
C1004Z	1/2"	3/4"	2"	\$10.95
C1005Z	5/8"	11/16"	2"	\$12.95
C1006Z	3/4"	3/4"	2"	\$14.95
C1007Z	1"	3/4"	2"	\$17.95
1/2" SHANK				
MODEL	CUTTER DIA. A	CUTTING LENGTH B	OVERALL LENGTH C	PRICE
C1008Z	1/4"	3/4"	2-1/2"	\$9.95
C1009Z	5/16"	3/4"	2-1/2"	\$9.95
C1010Z	3/8"	3/4"	2-1/2"	\$9.95
C1011Z	1/2"	1-3/16"	3"	\$10.95
C1012Z	1/2"	2"	3-3/4"	\$22.95
C1013Z	5/8"	1-1/8"	2-5/8"	\$12.95
C1014Z	5/8"	2-3/8"	4"	\$22.95
C1015Z	3/4"	1-1/8"	2-5/8"	\$17.95
C1016Z	3/4"	1-7/8"	3-1/2"	\$22.95
C1017Z	1"	1-1/8"	2-5/8"	\$17.95



### GIANT THUMBNAIL BIT with Guide Bearing

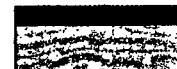
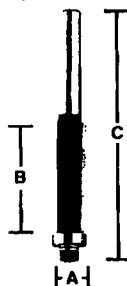


Order G3855 replacement bearing.

1/2" SHANK					
MODEL	CUTTER DIA. A	CUTTING LENGTH B	OVERALL LENGTH C	CUTTING WIDTH W	PRICE
C1371Z	2-1/2"	3/4"	2-5/8"	1"	\$59.95

### FLUSH TRIMMING BITS

with Guide Bearing



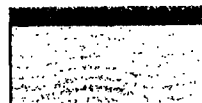
Order G3846 replacement bearing for C1079Z.  
Order G3855 replacement bearing for C1080Z.  
Order G3848 replacement bearing for C1081Z.  
Order G3855 replacement bearing for C1082Z.  
Order G3848 replacement bearing for C1083Z.

1/4" SHANK				
MODEL	CUTTER DIA. A	CUTTING LENGTH B	OVERALL LENGTH C	PRICE
C1079Z	3/8"	1-3/16"	2-3/4"	\$11.95
C1080Z	1/2"	1-3/16"	2-3/4"	\$11.95
1/2" SHANK				
MODEL	CUTTER DIA. A	CUTTING LENGTH B	OVERALL LENGTH C	PRICE
C1082Z	1/2"	1-3/16"	3-1/4"	\$11.95
C1083Z	5/8"	1-3/16"	3"	\$12.95

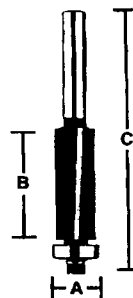
### SHEAR CUT FLUSH TRIM BITS

with Guide Bearing

Shearing action provides smooth face finishing. No lifting of laminate and less taxing on router.



Cutting edge is angled



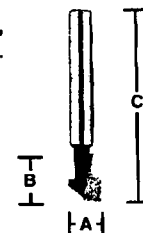
Order G3855 replacement bearing.

1/4" SHANK				
MODEL	CUTTER DIA. A	CUTTING LENGTH B	OVERALL LENGTH C	PRICE
C1353Z	1/2"	1-3/16"	2-3/4"	\$17.95
1/2" SHANK				
MODEL	CUTTER DIA. A	CUTTING LENGTH B	OVERALL LENGTH C	PRICE
C1354Z	1/2"	1-3/16"	3-1/4"	\$17.95

### KEYHOLE BITS

Single Flute

Used for wall mounting clocks, pictures and other hanging items. Also used for T-slots.



1/4" SHANK				
MODEL	CUTTER DIA. A	CUTTING LENGTH B	OVERALL LENGTH C	PRICE
C1358Z	1/2"	1/2"	2"	\$15.95
C1359Z	3/8"	1/2"	2"	\$15.95



MADE IN ISO 9002  
RATED FACTORY

**Grizzly®  
SUPER-DUTY  
ROUTER BITS**

## SUPER-DUTY

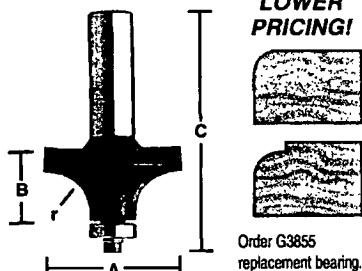
### MICRO GRAIN CARBIDE TIPPED ROUTER BITS

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ROUTER BITS SHOWN AT APPROXIMATELY 50% SCALE

#### ANTI-KICKBACK ROUNDOVER BITS

with Guide Bearing

Roundover bits are used to make quarter rounds of various radii. Also used to soften edges, especially if making anything a child would use. Everyone needs a drawer full of these. So many uses we can't list them all.



Order G3855  
replacement bearing.

##### 1/4" SHANK

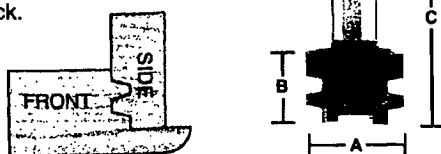
MODEL	CUTTER DIA. A	CUTTING LENGTH B	OVERALL LENGTH C	RADIUS r	PRICE
C1713Z	5/8"	3/8"	2"	1/16"	\$17.95
C1714Z	7/8"	3/8"	2"	1/8"	\$17.95
C1715Z	7/8"	3/8"	2"	3/16"	\$17.95
C1716Z	1"	1/2"	2"	1/4"	\$19.95
C1717Z	1-1/8"	1/2"	2-1/8"	5/16"	\$19.95
C1718Z	1-1/4"	5/8"	2-1/4"	3/8"	\$21.95
C1719Z	1-1/2"	5/8"	2-3/8"	1/2"	\$24.95

##### 1/2" SHANK

MODEL	CUTTER DIA. A	CUTTING LENGTH B	OVERALL LENGTH C	RADIUS r	PRICE
C1720Z	3/4"	3/8"	2-1/4"	1/8"	\$17.95
C1721Z	7/8"	3/8"	2-1/4"	3/16"	\$17.95
C1722Z	1"	1/2"	2-1/4"	1/4"	\$18.95
C1723Z	1-1/8"	1/2"	2-3/8"	5/16"	\$19.95
C1724Z	1-1/4"	5/8"	2-1/2"	3/8"	\$21.95
C1725Z	1-1/2"	3/4"	2-5/8"	1/2"	\$24.95

#### DRAWER LOCK BIT

Can also be used to create glue joints.  
Ideal for 1/2" stock.



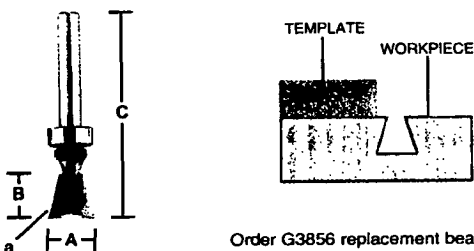
##### 1/2" SHANK

MODEL	CUTTER DIA. A	CUTTING LENGTH B	OVERALL LENGTH C	PRICE
C1330Z	1-1/16"	3/4"	2-1/4"	\$59.95

#### 1/2" DOVETAIL PATTERN BIT

with Guide Bearing

For use when template is on top of the workpiece. Works well for sliding dovetails.



Order G3856 replacement bearing.

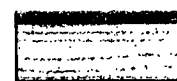
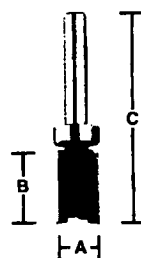
##### 1/4" SHANK

MODEL	CUTTER DIA. A	CUTTING LENGTH B	OVERALL LENGTH C	ANGLE a	PRICE
C1660Z	1/2"	1/2"	2-1/4"	14°	\$19.95

#### PATTERN CUTTING BITS

with Upper Guide Bearing

These are used when cutting duplicate models from a pattern. Bearing above cutter makes it easy to use. If you want to rout fast, you need one of these!



- Pattern  
- Workpiece

Order G3847 replacement bearing for C1306.  
Order G3854 replacement bearing for C1307.  
Order G3852 replacement bearing for C1308.  
Order G3853 replacement bearing for C1309.  
Order G1779 replacement bearing for C1310.

##### 1/4" SHANK

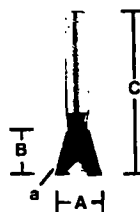
MODEL	CUTTER DIA. A	CUTTING LENGTH B	OVERALL LENGTH C	PRICE
C1306Z	1/2"	3/4"	2-1/4"	\$22.95
C1308Z	3/4"	3/4"	2-1/4"	\$27.95

##### 1/2" SHANK

MODEL	CUTTER DIA. A	CUTTING LENGTH B	OVERALL LENGTH C	PRICE
C1309Z	3/4"	1"	2-1/2"	\$29.95
C1310Z	1-1/8"	1-1/8"	3"	\$33.95

#### DOVETAIL BITS

Used in the production of dovetail joints for drawers and fine furniture. Suitable for routing wood, laminates, plywood and composition paneling.



##### 1/4" SHANK

MODEL	CUTTER DIA. A	CUTTING LENGTH B	OVERALL LENGTH C	ANGLE a	PRICE
C1068Z	3/8"	3/8"	1-3/4"	8°	\$8.95
C1069Z	1/2"	1/2"	1-3/4"	14°	\$8.95

##### 1/2" SHANK

MODEL	CUTTER DIA. A	CUTTING LENGTH B	OVERALL LENGTH C	ANGLE a	PRICE
C1074Z	1/2"	1/2"	2-1/4"	14°	\$8.95
C1076Z	3/4"	3/4"	2-1/2"	14°	\$12.95
C1077Z	1"	1-1/8"	2-3/4"	14°	\$16.95

CALL 24 HOURS A DAY FROM ANYWHERE IN THE U.S.A. 1-800-523-4777

# SUPER-DUTY MICRO GRAIN CARBIDE TIPPED ROUTER BITS

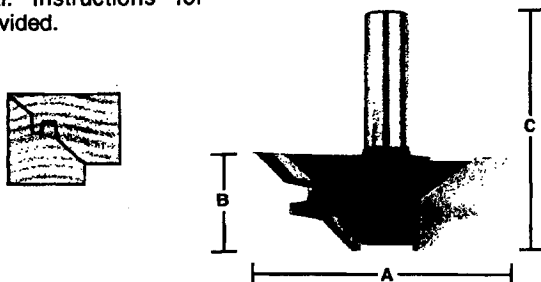
**BUY 10 OR MORE ROUTER BITS OR SHAPER CUTTERS AND DEDUCT 10%**  
ROUTER BITS SHOWN AT APPROXIMATELY 50% SCALE

MADE IN ISO 9002  
RATED FACTORY



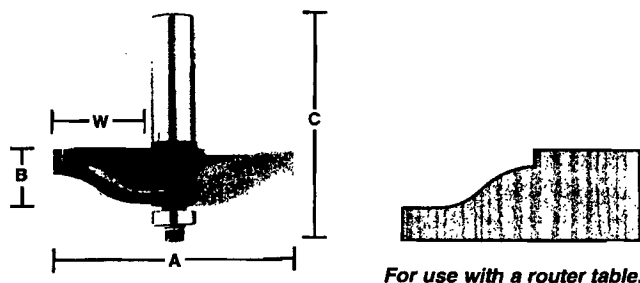
## CORNER LOCK MITER BIT

Used for making 90° corner joints in wood for 1/8" to 1" material. Instructions for use provided.



1/2" SHANK				
MODEL	CUTTER DIA. A	CUTTING LENGTH B	OVERALL LENGTH C	PRICE
C1331Z	3"	1"	2-1/2"	\$79.95

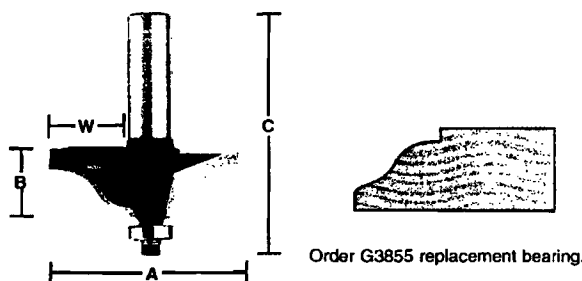
## OGEE BIT with Guide Bearing



For use with a router table.  
Order G3855 replacement bearing.

1/2" SHANK					
MODEL	CUTTER DIA. A	CUTTING LENGTH B	OVERALL LENGTH C	CUTTING WIDTH W	PRICE
C1401Z	2-5/8"	9/16"	2-1/4"	1-1/16"	\$59.95

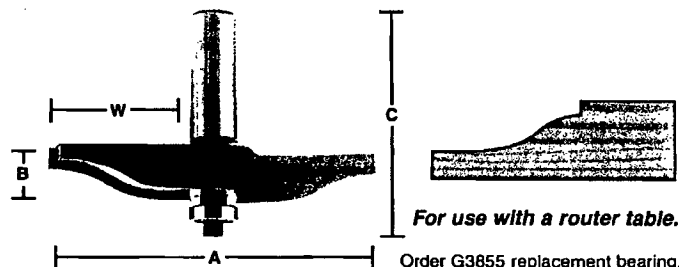
## STEPPED OGEE BIT with Guide Bearing



Order G3855 replacement bearing.

1/2" SHANK					
MODEL	CUTTER DIA. A	CUTTING LENGTH B	OVERALL LENGTH C	CUTTING WIDTH W	PRICE
C1423Z	2-1/4"	3/4"	2-1/2"	13/16"	\$59.95

## OGEE BIT with Guide Bearing



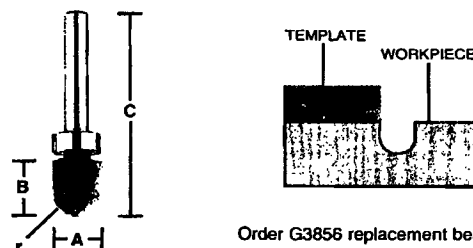
For use with a router table.

Order G3855 replacement bearing.

1/2" SHANK					
MODEL	CUTTER DIA. A	CUTTING LENGTH B	OVERALL LENGTH C	CUTTING WIDTH W	PRICE
C1417Z	3-1/2"	1/2"	2-1/2"	1-1/2"	\$79.95

## CORE BOX PATTERN BIT with Guide Bearing

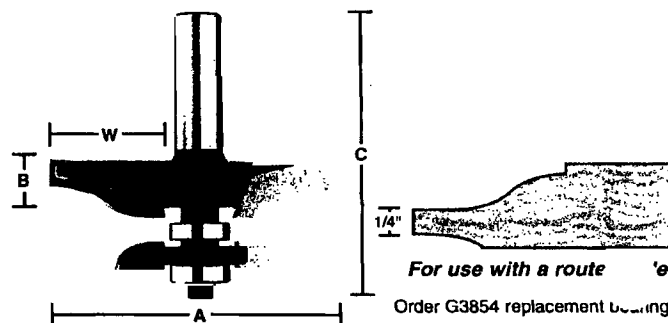
For use when template is on top of workpiece. Makes fluted columns.



Order G3856 replacement bearing.

1/4" SHANK					
MODEL	CUTTER DIA. A	CUTTING LENGTH B	OVERALL LENGTH C	RADIUS R	PRICE
C1661Z	1/2"	5/8"	2"	1/4"	\$19.95

## OGEE BIT with Bearing Guide



For use with a router table.

Order G3854 replacement bearing.

1/2" SHANK					
MODEL	CUTTER DIA. A	CUTTING LENGTH B	OVERALL LENGTH C	CUTTING WIDTH W	PRICE
C1409Z	3-1/8"	9/16"	3"	1-1/4"	\$109.95

MADE IN ISO 9002  
RATED FACTORY

## SUPER-DUTY

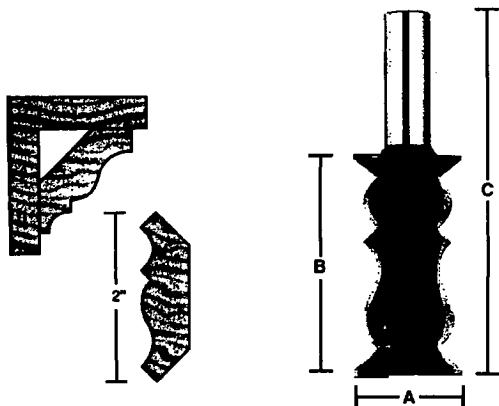
### MICRO GRAIN CARBIDE TIPPED ROUTER BITS



**BUY 10 OR MORE ROUTER BITS OR SHAPER CUTTERS AND DEDUCT 10%**  
ROUTER BITS SHOWN AT APPROXIMATELY 50% SCALE

**Grizzly®  
SUPER-DUTY  
ROUTER BITS**

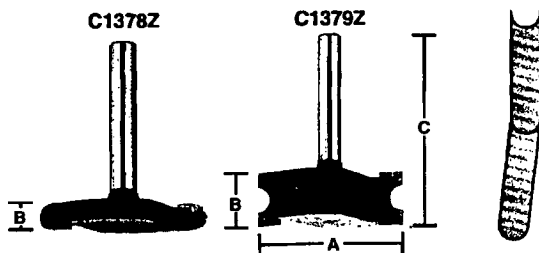
#### CROWN MOULDING BIT



1/2" SHANK				
MODEL	CUTTER DIA. A	CUTTING LENGTH B	OVERALL LENGTH C	PRICE
C1520Z	1-3/16"	2-1/4"	3-3/4"	\$77.95

#### FLUTE AND BEAD BITS

(for small boat planking)

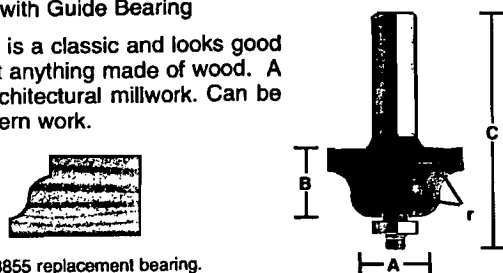


1/4" SHANK				
MODEL	CUTTER DIA. A	CUTTING LENGTH B	OVERALL LENGTH C	PRICE
C1378Z	1-1/2"	1/4"	1-3/4"	\$39.95
C1379Z	1-1/2"	1/2"	1-3/4"	\$39.95

#### ANTI-KICKBACK ROMAN OGEE BITS

with Guide Bearing

Ogee design is a classic and looks good on just about anything made of wood. A MUST for architectural millwork. Can be used for pattern work.



Order G3855 replacement bearing.

1/4" SHANK					
MODEL	CUTTER DIA. A	CUTTING LENGTH B	OVERALL LENGTH C	RADIUS R	PRICE
C1744Z	1-1/8"	1/2"	2-1/16"	5/32"	\$29.95
C1745Z	1-1/2"	3/4"	2-1/4"	1/4"	\$32.95

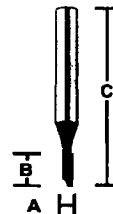
  

1/2" SHANK					
MODEL	CUTTER DIA. A	CUTTING LENGTH B	OVERALL LENGTH C	RADIUS R	PRICE
C1746Z	1-1/8"	1/2"	2-1/4"	5/32"	\$29.95
C1747Z	1-1/2"	3/4"	2-1/2"	1/4"	\$32.95

#### STRAIGHT BITS

Single Flute

Single fluted cutters offer more backing behind the carbide and are great for plunging.



1/4" SHANK				
MODEL	CUTTER DIA. A	CUTTING LENGTH B	OVERALL LENGTH C	PRICE
C1460Z	1/8"	3/8"	1-7/8"	\$8.95
C1462Z	3/16"	3/8"	1-7/8"	\$8.95
C1463Z	1/4"	3/4"	2-1/8"	\$9.95

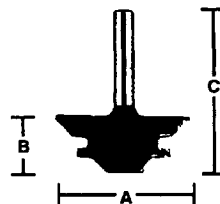
  

1/2" SHANK				
MODEL	CUTTER DIA. A	CUTTING LENGTH B	OVERALL LENGTH C	PRICE
C1465Z	1/4"	3/4"	2-5/8"	\$9.95
C1515Z	3/8"	1"	2-3/4"	\$12.95

#### CORNER LOCK MITER BIT

Used for making 90° corner joints in wood for 1/2" to 3/16" material. Instructions for use provided.

**GREAT FOR  
JEWELRY BOXES  
& DRAWERS!**



Safety Cutter

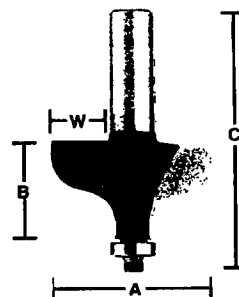
1/4" SHANK				
MODEL	CUTTER DIA. A	CUTTING LENGTH B	OVERALL LENGTH C	PRICE
C1711Z	1-5/8"	11/16"	2-1/4"	\$59.95

1/2" SHANK				
MODEL	CUTTER DIA. A	CUTTING LENGTH B	OVERALL LENGTH C	PRICE
C1712Z	1-5/8"	11/16"	2-1/4"	\$59.95

#### OGEE BIT

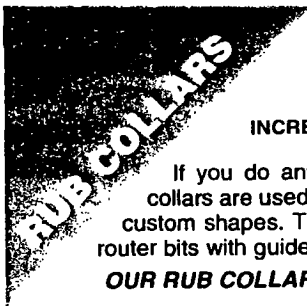
with Guide Bearing



Order G3855 replacement bearing.

1/2" SHANK					
MODEL	CUTTER DIA. A	CUTTING LENGTH B	OVERALL LENGTH C	CUTTING WIDTH W	PRICE
C1426Z	2"	1"	2-3/4"	3/4"	\$59.95

CALL 24 HOURS A DAY FROM ANYWHERE IN THE U.S.A. 1-800-523-4777

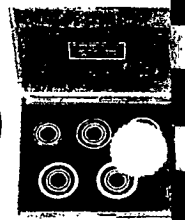
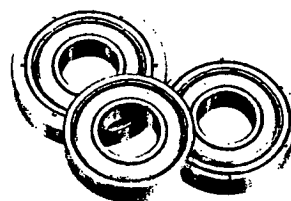


## RUB COLLARS

INCREASE YOUR SHAPER'S VERSATILITY WITH OUR RUB COLLARS!

If you do any kind of irregular shaping, these rub collars are a must! Rub collars are used for shaping curved work such as cathedral doors as well as many custom shapes. They are also used for limiting the depth of cut (same principal as router bits with guide bearings). Use them below, in between or above cutters.

**OUR RUB COLLARS FEATURE HIGH-QUALITY SHIELDED BALL BEARINGS**



MODEL	INSIDE DIA.	OUTSIDE DIA.	PRICE
G1779	1/2"	1 1/8"	\$8.95
G1780	1/2"	1 1/4"	\$9.95
G1781	1/2"	1 3/8"	\$12.95
G1881	1/2"	1 1/2"	\$13.95

G1782	3/4"	1 5/8"	\$15.95
G1783	3/4"	1 11/16"	\$17.95
G1882	3/4"	1 3/4"	\$17.95
G1883	3/4"	1 27/32"	\$17.95
G1884	3/4"	1 7/8"	\$17.95
G1885	3/4"	2"	\$18.95
G1886	3/4"	2 1/8"	\$18.95
G3366	3/4"	2 1/16"	\$18.95
G1784	3/4"	2 3/16"	\$19.95
G3129	3/4"	2 1/4"	\$19.95
G3130	3/4"	2 5/16"	\$19.95
G3131	3/4"	2 3/8"	\$22.95
G3132	3/4"	2 7/16"	\$22.95

MODEL	INSIDE DIA.	OUTSIDE DIA.	PRICE
G3133	3/4"	2 1/2"	\$23.95
G3134	3/4"	2 9/16"	\$23.95
G1887	3/4"	2 5/8"	\$24.95
G3135	3/4"	2 11/16"	\$25.95
G3136	3/4"	2 3/4"	\$25.95
G3137	3/4"	2 13/16"	\$25.95
G3138	3/4"	2 7/8"	\$25.95
G1785	3/4"	2 15/16"	\$25.95

G1786	1 1/4"	2 1/4"	\$24.95
G1787	1 1/4"	2 1/2"	\$28.50
G1788	1 1/4"	2 3/4"	\$28.50
G1789	1 1/4"	3"	\$28.95
G1790	1 1/4"	3 1/4"	\$28.95
G1888	1 1/4"	3 3/8"	\$29.95
G1791	1 1/4"	3 1/2"	\$31.50
G1792	1 1/4"	4"	\$32.95

## RUB COLLAR SETS

### 1/2" SET (4 PC. SET)

Consists of: G1779, G1780, G1781, G1881

**MODEL G3357 ONLY \$39<sup>95</sup>**

### 3/4" SET "A" (5 PC. SET)

Consists of: G1782, G1884, G1885, G1886, G1784 and  
(2) G2449 straight bushings

**MODEL G3362 ONLY \$84<sup>95</sup>**

### 3/4" SET "B" (5 PC. SET)

Consists of: G3129, G3130, G3131, G3132, G3133 and  
(2) G2449 straight bushings

**MODEL G3363 ONLY \$99<sup>95</sup>**

## BUSHINGS

These bushings are absolutely indispensable when working with shaper cutters. Cheaper by the set!



### T-BUSHINGS

MODEL	I.D. x O.D. x H.T.	PRICE
G2444	1/2" x 3/4" x 5/16"	\$2.25
G2445	3/4" x 1" x 1/32"	\$3.50
G2446	3/4" x 1 1/4" x 3/8"	\$3.50
G2447	1" x 1 1/4" x 25/64"	\$3.50
Complete Set (INCLUDES 1 PR. OF EA.) <b>MODEL G3149 ONLY \$22.95</b>		



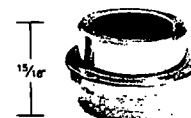
### STRAIGHT BUSHINGS

MODEL	I.D. x O.D.	PRICE
G2449	1/2" x 3/4"	\$2.25
G2450	3/4" x 1"	\$2.50
G2451	3/4" x 1 1/4"	\$2.75
G2452	1" x 1 1/4"	\$2.75
Complete Set <b>MODEL G2453 ONLY \$9.20</b>		



### LONG T-BUSHINGS

MODEL	I.D. x O.D.	PRICE
G3141	1" x 1 1/4"	\$5.95
G3142	3/4" x 1 1/4"	\$5.95
G3143	3/4" x 1"	\$5.49
G3144	1/2" x 3/4"	\$4.95
Complete Set <b>MODEL G3364 ONLY \$19.95</b>		



### DOUBLE T-BUSHINGS

MODEL	I.D. x O.D.	PRICE
G3145	1" x 1 1/4"	\$4.49
G3146	3/4" x 1 1/4"	\$4.49
G3147	3/4" x 1"	\$4.29
G3148	1/2" x 3/4"	\$4.00
Complete Set <b>MODEL G3365 ONLY \$15.95</b>		

## SPACERS



Spacers allow you to position your shaper cutter or cutters anywhere on the spindle. Use them between cutters or stack them above the cutter to bear against the spindle nut. Every shaper owner needs a set of these on hand.

### 1/2" x 1" FOR 1/2" SPINDLES

MODEL	I.D. x O.D. x HT.	PRICE
G2454	1/2" x 1" x 1/4"	\$2.25
G2455	1/2" x 1" x 3/8"	\$2.25
G2456	1/2" x 1" x 1/2"	\$2.50
G2457	1/2" x 1" x 3/4"	\$2.75
G2458	1/2" x 1" x 1"	\$2.95
Complete Set — Save 10% <b>MODEL G2459 ONLY \$9.95</b>		

### 3/4" x 1 1/4" FOR 3/4" SPINDLES

MODEL	I.D. x O.D. x HT.	PRICE
G2460	3/4" x 1 1/4" x 1/4"	\$2.95
G2461	3/4" x 1 1/4" x 3/8"	\$2.95
G2462	3/4" x 1 1/4" x 1/2"	\$3.25
G2463	3/4" x 1 1/4" x 3/4"	\$3.25
G2464	3/4" x 1 1/4" x 1"	\$3.25
Complete Set — Save 10% <b>MODEL G2465 ONLY \$14.00</b>		

### 1" x 1 1/2" FOR 1" SPINDLES

MODEL	I.D. x O.D. x HT.	PRICE
G2466	1" x 1 1/2" x 1/4"	\$3.49
G2467	1" x 1 1/2" x 3/8"	\$3.49
G2468	1" x 1 1/2" x 1/2"	\$3.49
G2469	1" x 1 1/2" x 3/4"	\$3.75
G2470	1" x 1 1/2" x 1"	\$3.95
Complete Set — Save 10% <b>MODEL G2471 ONLY \$16.35</b>		

### 1 1/4" x 1 3/4" FOR 1 1/4" SPINDLES

MODEL	I.D. x O.D. x HT.	PRICE
G2472	1 1/4" x 1 3/4" x 1/4"	\$4.25
G2473	1 1/4" x 1 3/4" x 3/8"	\$4.50
G2474	1 1/4" x 1 3/4" x 1/2"	\$4.75
G2475	1 1/4" x 1 3/4" x 3/4"	\$4.99
G2476	1 1/4" x 1 3/4" x 1"	\$4.75
Complete Set — Save 10% <b>MODEL G2477 ONLY \$19.79</b>		



## MOULDING HEAD SYSTEM

**MOULDING  
HEAD**

Have you priced milled trim stock lately? If you have a shaper, you can create an amazing selection of contemporary and traditional casings, door mouldings, window trim and more — for a fraction of lumber yard costs.

Our Moulding Head System allows you to choose from a wide variety of precision-ground cutter patterns for use in these CNC-machined, aircraft aluminum cutterheads.

The 2" moulding head accepts all 2" knives and works on shapers such as our G1035 with 3/4" spindles and motors 1 1/2 H.P. or larger. A 3" spindle is required.

The 3" moulding head is ideal for use with our larger shapers and allows you to use all of our 2" and 3" cutters. The 4" spindle is required when using the 3" cutterhead on the Model G1026.

*For use with a power feeder only —  
see page 42.*

### DRASTIC PRICE REDUCTION!

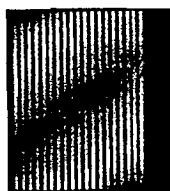
MODEL G2320	2" Moulding Head with 3/4" Bore	ONLY	\$59 <sup>95</sup>
MODEL G2606	3" Moulding Head with 1" Bore	ONLY	\$69 <sup>95</sup>
MODEL G2910	4" Spindle (Fits Grizzly G1026 only)	ONLY	<del>\$59<sup>95</sup></del> \$49 <sup>95</sup>

**BUY THREE OR  
MORE KNIFE  
SETS AND TAKE  
10% OFF!**

### BLANKS, RABBETING & BACKOUT RELIEF KNIVES (KNIVES SHOWN AT APPROXIMATELY 50% OF ACTUAL SIZE)

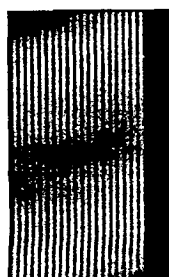
Blanks are not ground so you can create your own profile. Rabbeting cutters are pre-ground and ready to use. Use backout relief cutters to relieve the back of casings, chair rails and base mouldings. *Sold in pairs.*

#### 2" BLANK



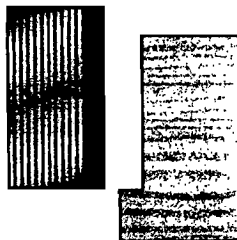
MODEL G2357 PAIR \$24<sup>95</sup>

#### 3" BLANK



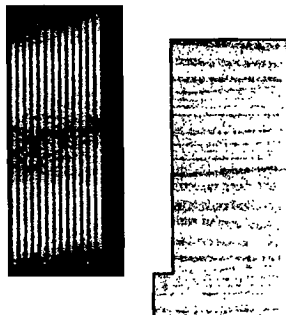
MODEL G2360 PAIR \$29<sup>95</sup>

#### 2" RABBETING



MODEL G2359 PAIR \$24<sup>95</sup>

#### 3" RABBETING



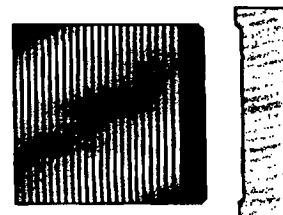
MODEL G2781 PAIR \$29<sup>95</sup>

#### 1" BACKOUT/RELIEF



MODEL G2334 PAIR \$39<sup>95</sup>

#### 2" BACKOUT/RELIEF



MODEL G3821 PAIR \$34<sup>95</sup>



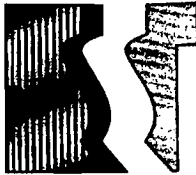
# MOULDING HEAD KNIVES (KNIVES SHOWN AT APPROXIMATELY 50% ACTUAL SIZE)

2" ASTRAGAL



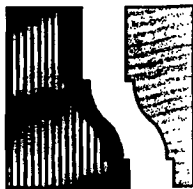
MODEL G2333 PAIR \$49<sup>95</sup>

2" PLYWOOD CAP



MODEL G2342 PAIR \$49<sup>95</sup>

2" OGEE MOULD



MODEL G2358 PAIR \$49<sup>95</sup>

2" BATTEN



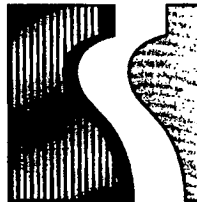
MODEL G2347 PAIR \$49<sup>95</sup>

2" BASEBOARD



MODEL G2328 PAIR \$49<sup>95</sup>

2" BRICK MOULD



MODEL G2323 PAIR \$49<sup>95</sup>

2" PICKWICK



MODEL G2344 PAIR \$49<sup>95</sup>

2" BED MOULD



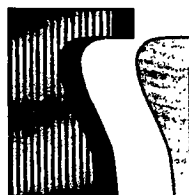
MODEL G2345 PAIR \$49<sup>95</sup>

2" CASEMENT



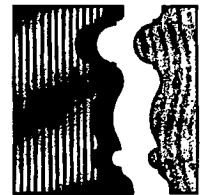
MODEL G2346 PAIR \$49<sup>95</sup>

2" CASEMENT



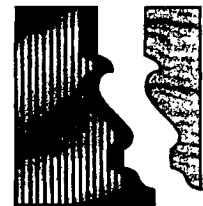
MODEL G2329 PAIR \$49<sup>95</sup>

2" CHAIR RAIL



MODEL G2327 PAIR \$49<sup>95</sup>

2" PANEL MOULD



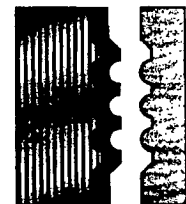
MODEL G2322 PAIR \$49<sup>95</sup>

2" CHAIR RAIL



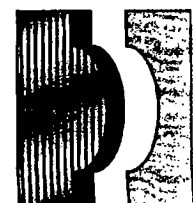
MODEL G2340 PAIR \$49<sup>95</sup>

2" CHAIR RAIL / BEAD



MODEL G2336 PAIR \$49<sup>95</sup>

2" CASEMENT



MODEL G2343 PAIR \$49<sup>95</sup>

# MOULDING HEAD KNIVES (KNIVES SHOWN AT APPROXIMATELY 50% ACTUAL SIZE)

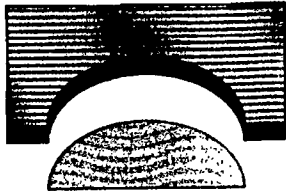
MOULDING  
KNIVES

## 2" CASEMENT



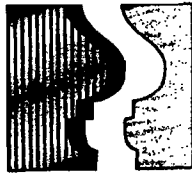
MODEL G2324 PAIR \$49<sup>95</sup>

## 3" HANDRAIL TOP



MODEL G2350 PAIR \$49<sup>95</sup>

## 2" HANDRAIL SIDES



MODEL G2351 PAIR \$49<sup>95</sup>

## 3" CASEMENT



MODEL G2614 PAIR \$59<sup>95</sup>

## 3" CASEMENT



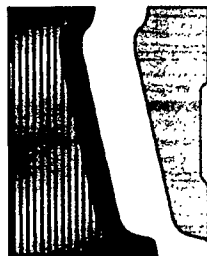
MODEL G2615 PAIR \$59<sup>95</sup>

## 3" CASEMENT



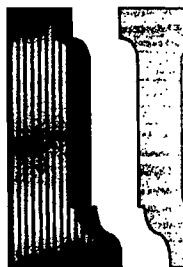
MODEL G2616 PAIR \$59<sup>95</sup>

## 3" CASEMENT



MODEL G2617 PAIR \$59<sup>95</sup>

## 3" BASE



MODEL G2621 PAIR \$59<sup>95</sup>

## 3" PANEL MOULD



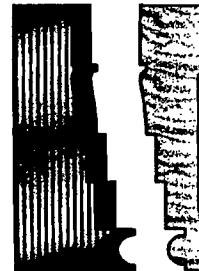
MODEL G2622 PAIR \$59<sup>95</sup>

## 3" CASEMENT



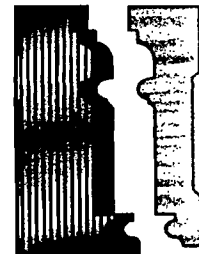
MODEL G2623 PAIR \$59<sup>95</sup>

## 3" CASEMENT



MODEL G2624 PAIR \$59<sup>95</sup>

## 3" CASEMENT



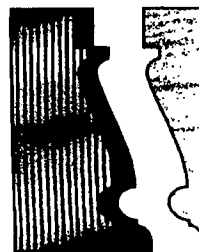
MODEL G2625 PAIR \$59<sup>95</sup>

## 3" CHAIR RAIL



MODEL G2626 PAIR \$59<sup>95</sup>

## 3" CASEMENT

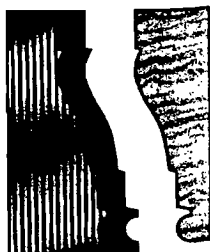


MODEL G2627 PAIR \$59<sup>95</sup>



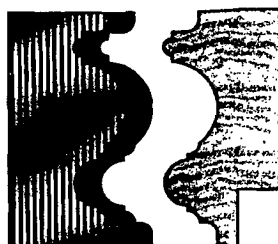
# MOULDING HEAD KNIVES (KNIVES SHOWN AT APPROXIMATELY 50% ACTUAL SIZE)

## 3" CASEMENT



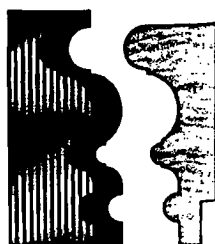
MODEL G2628 PAIR \$59<sup>95</sup>

## 3" PICTURE FRAME



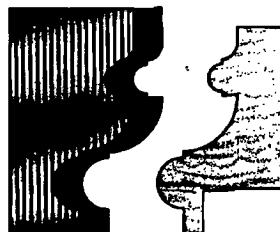
MODEL G2618 PAIR \$59<sup>95</sup>

## 3" PICTURE FRAME



MODEL G2619 PAIR \$59<sup>95</sup>

## 3" PICTURE FRAME



MODEL G2620 PAIR \$59<sup>95</sup>

## 2" PICTURE FRAME



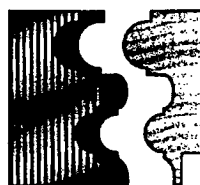
MODEL G2337 PAIR \$59<sup>95</sup>

## 2" PANEL MOULD



MODEL G2341 PAIR \$59<sup>95</sup>

## 2" PICTURE FRAME



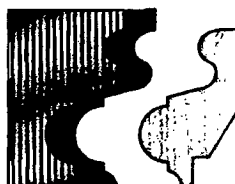
MODEL G2352 PAIR \$59<sup>95</sup>

## 2" PICTURE FRAME



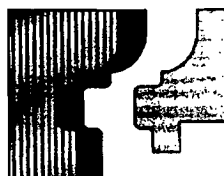
MODEL G2611 PAIR \$59<sup>95</sup>

## 2" PICTURE FRAME



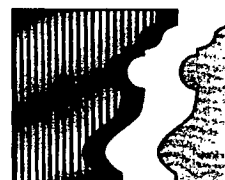
MODEL G2612 PAIR \$59<sup>95</sup>

## 2" PICTURE FRAME



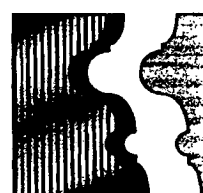
MODEL G2613 PAIR \$59<sup>95</sup>

## 2" PICTURE FRAME



MODEL G2326 PAIR \$59<sup>95</sup>

## 2" PICTURE FRAME



MODEL G2330 PAIR \$59<sup>95</sup>

## 2" PICTURE FRAME



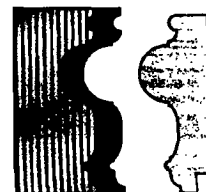
MODEL G2348 PAIR \$59<sup>95</sup>

## 2" PICTURE FRAME



MODEL G2355 PAIR \$59<sup>95</sup>

## 2" PICTURE FRAME



MODEL G2356 PAIR \$59<sup>95</sup>



# MOULDING HEAD KNIVES

(KNIVES SHOWN AT APPROXIMATELY 50% ACTUAL SIZE)

MOULDING  
KNIVES

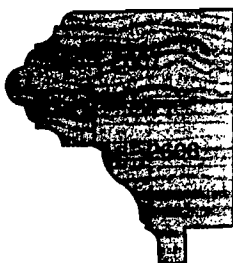
## 2" PICTURE FRAME



## 2" PICTURE FRAME



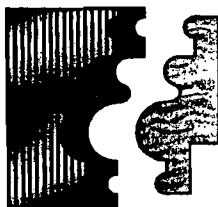
## COMBINE G2607 & G2608



MODEL G2607 PAIR \$59<sup>95</sup>

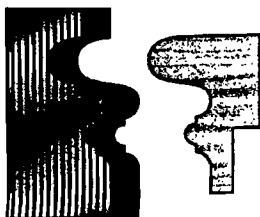
MODEL G2608 PAIR \$59<sup>95</sup>

## 2" PICTURE FRAME



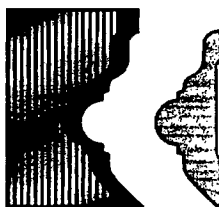
MODEL G2609 PAIR \$59<sup>95</sup>

## 2" PICTURE FRAME



MODEL G2610 PAIR \$59<sup>95</sup>

## 2" CHAIR RAIL



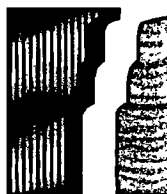
MODEL G2321 PAIR \$49<sup>95</sup>

## 2" CHAIR RAIL



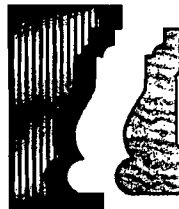
MODEL G2325 PAIR \$49<sup>95</sup>

## 2" BASEBOARD



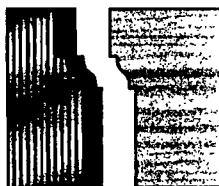
MODEL G2331 PAIR \$49<sup>95</sup>

## 2" CASEMENT



MODEL G2332 PAIR \$49<sup>95</sup>

## 2" BRICK MOULD



MODEL G2335 PAIR \$49<sup>95</sup>

## 2" WINDOW SASH



MODEL G2338 PAIR \$49<sup>95</sup>

## 2" WINDOW SASH



MODEL G2339 PAIR \$49<sup>95</sup>

## 2" CROWN MOULDING



MODEL G2349 PAIR \$49<sup>95</sup>

## 2" CROWN MOULDING



MODEL G2353 PAIR \$49<sup>95</sup>

## 2" CHAIR RAIL



MODEL G2354 PAIR \$49<sup>95</sup>

# INDUSTRIAL QUALITY CARBIDE TIPPED SHAPER CUTTERS

MADE IN ISO 9002  
RATED FACTORY

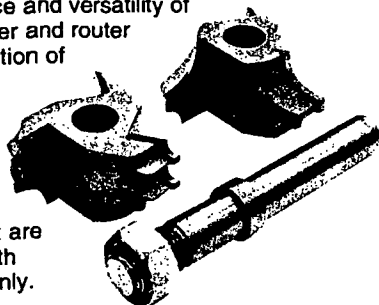
**BUY 10 OR MORE ROUTER BITS OR SHAPER CUTTERS AND DEDUCT 10%**  
ROUTER BITS SHOWN AT APPROXIMATELY 50% SCALE

## 1/2" BORE SHAPER CUTTERS

These carbide-tipped shaper cutters are specifically made for use on shapers with 1/2" spindles. Smaller profiles are ideal for shaping small radii and for making picture frames. These 1/2" bore, 2mm thick carbide cutters stay sharp longer than the old HSS cutters and are priced right, too. Can be used in hard and soft woods and wood composite materials. 5,000-10,000 R.P.M.

## 1/2" SHAPER CUTTER ARBOR

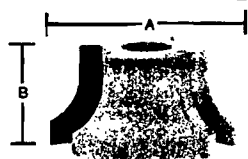
Combine the convenience and versatility of your variable speed router and router table with the wide selection of 1/2" shaper cutter profiles available. This arbor fits 1/2" router collets and will accept 1/2" shaper cutters that are 3/4" to 1 1/8" thick. Spacers can be used with cutters that are less than 3/4". For use with variable speed routers only.



**MODEL G4820**

**ONLY \$14.95**

## BEAD

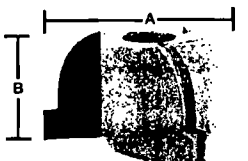


Safety Cutter



1/2" BORE			
MODEL	CUTTER DIA. A	CUTTING LENGTH B	PRICE
C2001	2"	7/8"	\$19.95

## 1/4" FLUTE / 1/2" COVE

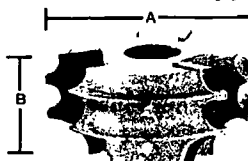


Safety Cutter



1/2" BORE			
MODEL	CUTTER DIA. A	CUTTING LENGTH B	PRICE
C2002	2"	1"	\$19.95

## 1/8" & 3/8" QUARTER ROUND 1/4" BEAD

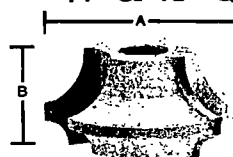


Safety Cutter



1/2" BORE			
MODEL	CUTTER DIA. A	CUTTING LENGTH B	PRICE
C2003	2"	1"	\$19.95

## 1/4" & 1/2" QUARTER ROUND

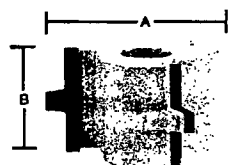


Safety Cutter

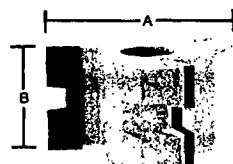


1/2" BORE			
MODEL	CUTTER DIA. A	CUTTING LENGTH B	PRICE
C2004	2-1/8"	7/8"	\$19.95

## 1/4" TONGUE AND GROOVE



C2005 (Groove)



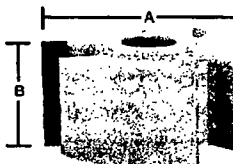
C2006 (Tongue)



2-piece Set C2310 \$37.95  
Save by ordering as a set!

1/2" BORE			
MODEL	CUTTER DIA. A	CUTTING LENGTH B	PRICE
C2005	2"	1"	\$19.95
C2006	2"	1"	\$19.95

## 1" STRAIGHT

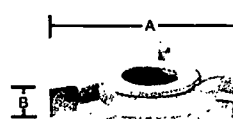


Safety Cutter



1/2" BORE			
MODEL	CUTTER DIA. A	CUTTING LENGTH B	PRICE
C2007	2"	1"	\$19.95

## 1/4" RABBIT



Safety Cutter



1/2" BORE			
MODEL	CUTTER DIA. A	CUTTING LENGTH B	PRICE
C2008	2"	1/4"	\$19.95

MADE IN ISO 9002  
RATED FACTORY

# INDUSTRIAL QUALITY CARBIDE TIPPED SHAPER CUTTERS

BUY 10 OR MORE ROUTER BITS OR SHAPER CUTTERS AND DEDUCT 10%  
SHAPER CUTTERS SHOWN AT APPROXIMATELY 50% SCALE

**Grizzly**  
SHAPER CUTTERS

## 1/2" RABBET



Safety Cutter

1/2" BORE

MODEL	CUTTER DIA. A	CUTTING LENGTH B	PRICE
C2009	2"	1/2"	\$19.95

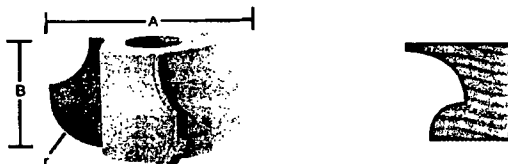
## DOOR EDGE



1/2" BORE

MODEL	CUTTER DIA. A	CUTTING LENGTH B	PRICE
C2010	2"	1"	\$19.95

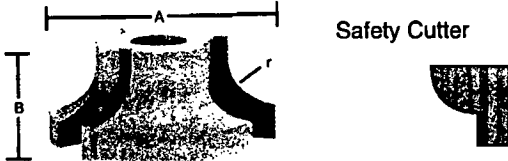
## COVE / QUARTER ROUND



1/2" BORE

MODEL	CUTTER DIA. A	CUTTING LENGTH B	RADIUS r	PRICE
C2011	2"	1"	3/8"	\$19.95

## DROP LEAF BEAD

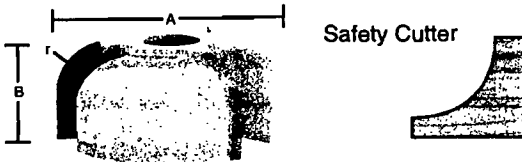


Safety Cutter

1/2" BORE

MODEL	CUTTER DIA. A	CUTTING LENGTH B	RADIUS r	PRICE
C2012	2-1/8"	7/8"	1/2"	\$19.95

## DROP LEAF COVE



Safety Cutter

1/2" BORE

MODEL	CUTTER DIA. A	CUTTING LENGTH B	RADIUS r	PRICE
C2013	2-1/8"	7/8"	1/2"	\$19.95

## GLUE JOINT



Safety Cutter

1/2" BORE

MODEL	CUTTER DIA. A	CUTTING LENGTH B	PRICE
C2014	2"	1"	\$19.95

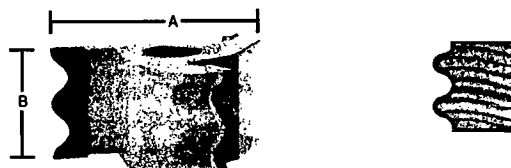
## SCREEN MOULD



1/2" BORE

MODEL	CUTTER DIA. A	CUTTING LENGTH B	PRICE
C2015	2-1/8"	1"	\$19.95

## DOUBLE BEAD



1/2" BORE

MODEL	CUTTER DIA. A	CUTTING LENGTH B	PRICE
C2016	2-3/16"	1"	\$19.95

## COVE AND BEAD

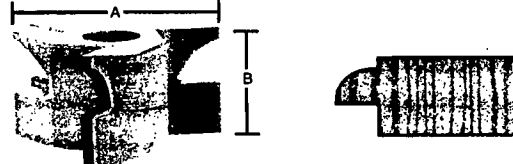


Safety Cutter

1/2" BORE

MODEL	CUTTER DIA. A	CUTTING LENGTH B	RADIUS r	PRICE
C2017	2"	7/8"	1/4"	\$19.95

## CABINET DOOR LIP



1/2" BORE

MODEL	CUTTER DIA. A	CUTTING LENGTH B	PRICE
C2018	2"	1"	\$19.95

CALL 24 HOURS A DAY FROM ANYWHERE IN THE U.S.A. 1-800-523-4777

# INDUSTRIAL QUALITY CARBIDE TIPPED SHAPER CUTTERS

MADE IN ISO 9002  
RATED FACTORY

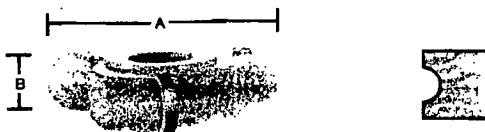
**BUY 10 OR MORE ROUTER BITS OR SHAPER CUTTERS AND DEDUCT 10%**  
ROUTER BITS SHOWN AT APPROXIMATELY 50% SCALE

## 1/2" HALF ROUND



1/2" BORE			
MODEL	CUTTER DIA. A	CUTTING LENGTH B	PRICE
C2019	2"	3/4"	\$19.95

## 1/2" COVE



1/2" BORE			
MODEL	CUTTER DIA. A	CUTTING LENGTH B	PRICE
C2020	2"	1/2"	\$19.95

## SPACERS - 1/2" x 1"

BUY THE COMPLETE SET AND SAVE BIG!

1/2" BORE		
MODEL	DIMENSIONS	PRICE
G2454	1/2" x 1" x 1/4"	\$2.25
G2455	1/2" x 1" x 3/8"	\$2.25
G2456	1/2" x 1" x 1/2"	\$2.50
G2457	1/2" x 1" x 3/4"	\$2.75
G2458	1/2" x 1" x 1"	\$2.95
TOTAL		\$12.70

MODEL G2459 5-PC SET *Save Big!* \$9.95

## 1/2" BORE RUB COLLARS

BUY THE COMPLETE SET AND SAVE BIG!

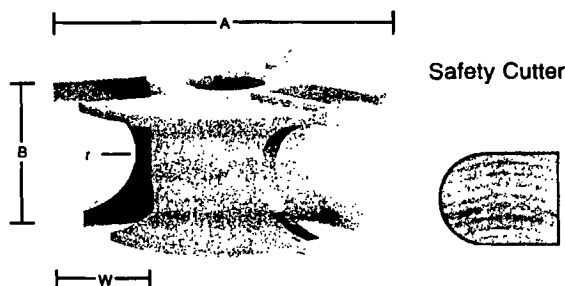
1/2" BORE		
MODEL	O.D.	PRICE
G1779	1-1/8"	\$8.95
G1780	1-1/4"	\$9.95
G1781	1-3/8"	\$12.95
G1881	1-1/2"	\$13.95
TOTAL		\$45.80

MODEL G3357 4-PC SET *Save Big!* \$39.95

## 3/4" BORE SHAPER CUTTERS

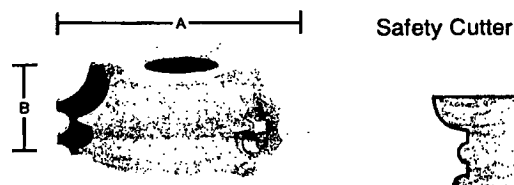
Grizzly® 3/4" bore shaper cutters feature top-quality C-2 carbide – the best available for wood cutting applications. Shaped and sharpened with diamond wheels as fine as 600 grit, these outstanding cutters are constructed with a high-tensile, silver-based brazing, which offers the utmost in strength and durability. Can be used on woods, wood composites, plywood and some plastics at 5,000 to 10,000 R.P.M. An excellent selection.

## STAIR TREAD NOSE



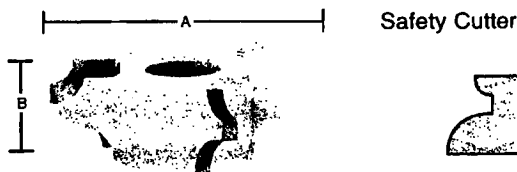
3/4" BORE					
MODEL	CUTTER DIA. A	CUTTING LENGTH B	CUTTING WIDTH W	RADIUS r	PRICE
C2129	3-3/8"	1-1/2"	1"	9/16"	\$49.95

## 1/8" & 3/8" QUARTER ROUND & 1/4" BEAD



3/4" BORE			
MODEL	CUTTER DIA. A	CUTTING LENGTH B	PRICE
C2026	2-5/8"	1"	\$35.95

## 1/4" & 1/2" QUARTER ROUND



3/4" BORE			
MODEL	CUTTER DIA. A	CUTTING LENGTH B	PRICE
C2027	2-5/8"	1"	\$35.95

MADE IN ISO 9002  
RATED FACTORY

# INDUSTRIAL QUALITY CARBIDE TIPPED SHAPER CUTTERS

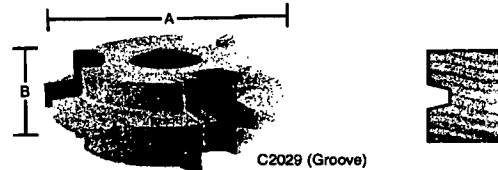
BUY 10 OR MORE ROUTER BITS OR SHAPER CUTTERS AND DEDUCT 10%  
SHAPER CUTTERS SHOWN AT APPROXIMATELY 50% SCALE

**Grizzly**  
SHAPER CUTTERS

## TONGUE AND GROOVE



C2028 (Tongue)



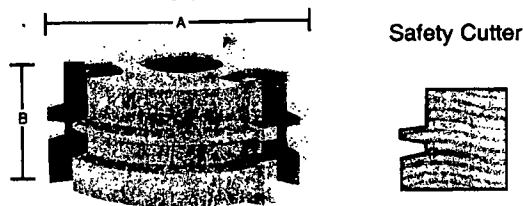
C2029 (Groove)

3/4" BORE

MODEL	CUTTER DIA. A	CUTTING LENGTH B	PRICE
C2028	2-5/8"	1"	\$35.95
C2029	2-5/8"	1"	\$35.95

2-piece Set C2311 \$69.95  
Save by ordering as a set!

## GLUE JOINT



Safety Cutter

3/4" BORE

MODEL	CUTTER DIA. A	CUTTING LENGTH B	PRICE
C2041	2-5/8"	1-1/8"	\$35.95

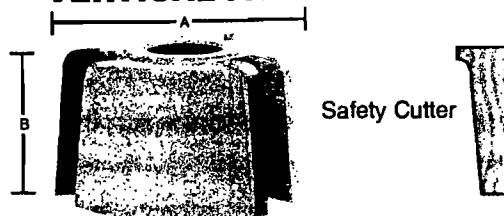
## DRAWER JOINT



3/4" BORE

MODEL	CUTTER DIA. A	CUTTING LENGTH B	PRICE
C2042	2-5/8"	3/4"	\$35.95

## VERTICAL PANEL RAISING

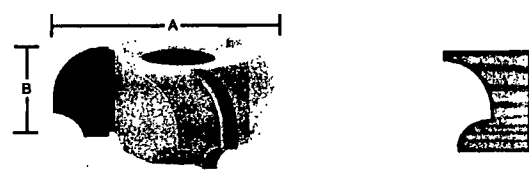


Safety Cutter

3/4" BORE

MODEL	CUTTER DIA. A	CUTTING LENGTH B	PRICE
C2083	2-5/8"	1-1/2"	\$39.95

## 1/2" COVE & 5/16" QUARTER ROUND



3/4" BORE

MODEL	CUTTER DIA. A	CUTTING LENGTH B	PRICE
C2084	2-5/8"	1"	\$35.95

## FEMALE SASH



3/4" BORE

MODEL	CUTTER DIA. A	CUTTING LENGTH B	PRICE
C2085	2-5/8"	5/8"	\$35.95

## MALE SASH

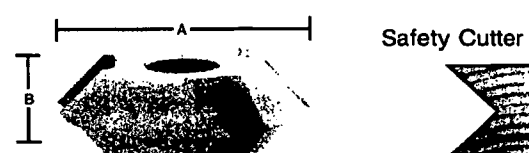


Safety Cutter

3/4" BORE

MODEL	CUTTER DIA. A	CUTTING LENGTH B	PRICE
C2086	2-5/8"	5/8"	\$35.95

## 90° V-GROOVE

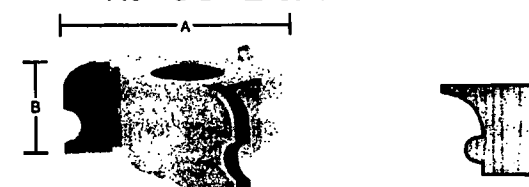


Safety Cutter

3/4" BORE

MODEL	CUTTER DIA. A	CUTTING LENGTH B	PRICE
C2087	2-3/4"	1"	\$35.95

## 5/16" COVE & 3/8" BEAD



3/4" BORE

MODEL	CUTTER DIA. A	CUTTING LENGTH B	PRICE
C2088	2-5/8"	1"	\$35.95

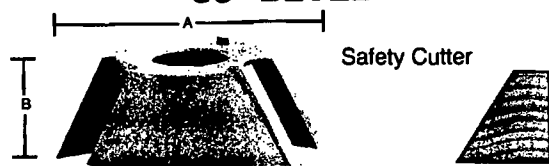
CALL 24 HOURS A DAY FROM ANYWHERE IN THE U.S.A. 1-800-523-4777

# INDUSTRIAL QUALITY CARBIDE TIPPED SHAPER CUTTERS

MADE IN ISO 9002  
RATED FACTORY

**BUY 10 OR MORE ROUTER BITS OR SHAPER CUTTERS AND DEDUCT 10%**  
ROUTER BITS SHOWN AT APPROXIMATELY 50% SCALE

## 30° BEVEL

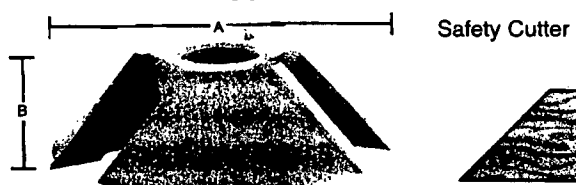


Safety Cutter

3/4" BORE

MODEL	CUTTER DIA. A	CUTTING LENGTH B	PRICE
C2089	3"	1"	\$35.95

## 45° BEVEL



Safety Cutter

3/4" BORE

MODEL	CUTTER DIA. A	CUTTING LENGTH B	PRICE
C2308	3-1/4"	1"	\$35.95

## COVE & BEAD



3/4" BORE

MODEL	CUTTER DIA. A	CUTTING LENGTH B	RADIUS r	PRICE
C2090	2-7/8"	11/16"	1/4"	\$37.95

## BEAD & COVE

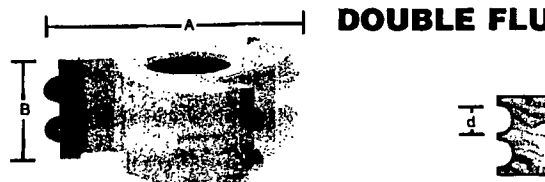


Safety Cutter

3/4" BORE

MODEL	CUTTER DIA. A	CUTTING LENGTH B	RADIUS r	PRICE
C2091	3-1/4"	7/8"	5/16"	\$37.95

## DOUBLE FLUTE



3/4" BORE

MODEL	CUTTER DIA. A	CUTTING LENGTH B	DIAMETER d	PRICE
C2092	2-5/8"	7/8"	1/4"	\$35.95

## DOUBLE BEAD

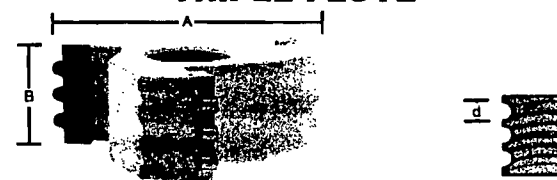


Safety Cutter

3/4" BORE

MODEL	CUTTER DIA. A	CUTTING LENGTH B	DIAMETER d	PRICE
C2093	2-5/8"	1"	1/4"	\$35.95

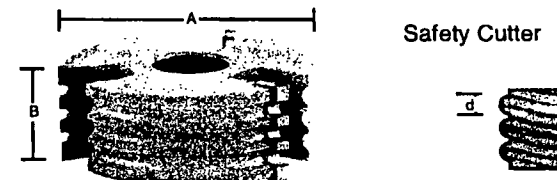
## TRIPLE FLUTE



3/4" BORE

MODEL	CUTTER DIA. A	CUTTING LENGTH B	DIAMETER d	PRICE
C2094	2-5/8"	7/8"	1/8"	\$35.95

## TRIPLE BEAD



Safety Cutter

3/4" BORE

MODEL	CUTTER DIA. A	CUTTING LENGTH B	DIAMETER d	PRICE
C2095	2-5/8"	1"	1/8"	\$35.95

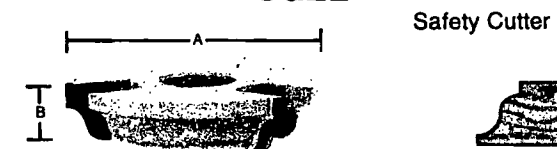
## OGEE MOULDING



3/4" BORE

MODEL	CUTTER DIA. A	CUTTING LENGTH B	PRICE
C2097	3"	5/8"	\$37.95

## OGEE



Safety Cutter

3/4" BORE

MODEL	CUTTER DIA. A	CUTTING LENGTH B	PRICE
C2098	2-5/8"	1/2"	\$35.95

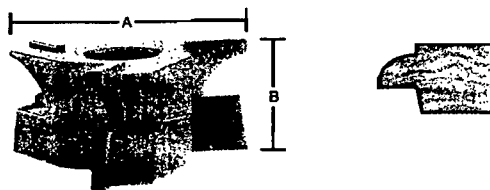
MADE IN ISO 9002  
RATED FACTORY

# INDUSTRIAL QUALITY CARBIDE TIPPED SHAPER CUTTERS

BUY 10 OR MORE ROUTER BITS OR SHAPER CUTTERS AND DEDUCT 10%  
SHAPER CUTTERS SHOWN AT APPROXIMATELY 50% SCALE

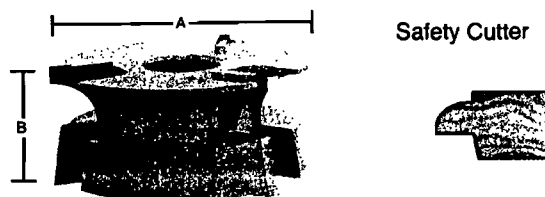
GRIZZLY  
SHAPER CUTTERS

## DOOR LIP (Clockwise Rotation)



3/4" BORE			
MODEL	CUTTER DIA. A	CUTTING LENGTH B	PRICE
C2101	2-5/8"	1-3/16"	\$35.95

## DOOR LIP (Counter-Clockwise Rotation)



3/4" BORE			
MODEL	CUTTER DIA. A	CUTTING LENGTH B	PRICE
C2102	2-5/8"	1-3/16"	\$35.95

## DOOR EDGE



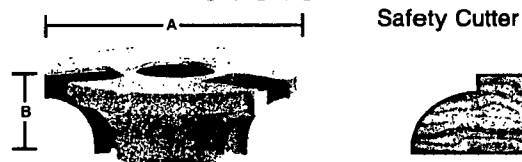
3/4" BORE			
MODEL	CUTTER DIA. A	CUTTING LENGTH B	PRICE
C2103	2-5/8"	1"	\$35.95

## DOOR EDGE



3/4" BORE			
MODEL	CUTTER DIA. A	CUTTING LENGTH B	PRICE
C2104	2-7/8"	15/16"	\$35.95

## OVOLO



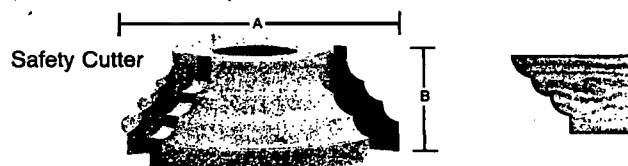
3/4" BORE			
MODEL	CUTTER DIA. A	CUTTING LENGTH B	PRICE
C2105	2-5/8"	7/8"	\$37.95

## STEPPED COVE



3/4" BORE			
MODEL	CUTTER DIA. A	CUTTING LENGTH B	PRICE
C2106	2-5/8"	1/2"	\$37.95

## QUARTER BEAD



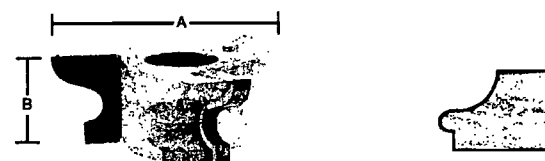
3/4" BORE			
MODEL	CUTTER DIA. A	CUTTING LENGTH B	PRICE
C2107	2-5/8"	7/8"	\$35.95

## OGEE & COVE



3/4" BORE			
MODEL	CUTTER DIA. A	CUTTING LENGTH B	PRICE
C2108	2-7/8"	15/16"	\$35.95

## OGEE & BEAD



3/4" BORE			
MODEL	CUTTER DIA. A	CUTTING LENGTH B	PRICE
C2109	2-5/8"	15/16"	\$35.95

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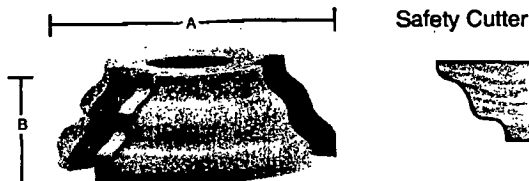


# INDUSTRIAL QUALITY CARBIDE TIPPED SHAPER CUTTERS

MADE IN ISO 9002  
RATED FACTORY

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ROUTER BITS SHOWN AT APPROXIMATELY 50% SCALE

## WAVE

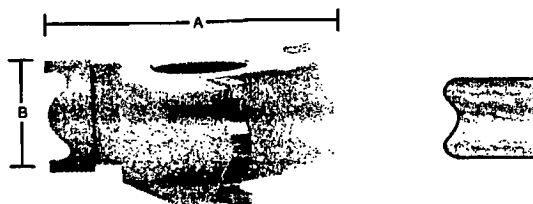


Safety Cutter

3/4" BORE

MODEL	CUTTER DIA. A	CUTTING LENGTH B	PRICE
C2110	2-3/4"	1"	\$35.95

## ROUNDED FLUTE



3/4" BORE

MODEL	CUTTER DIA. A	CUTTING LENGTH B	PRICE
C2111	2-5/8"	1"	\$35.95

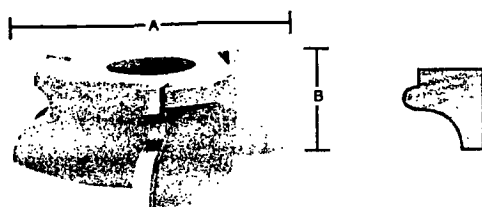
## ASTRAGAL



3/4" BORE

MODEL	CUTTER DIA. A	CUTTING LENGTH B	PRICE
C2112	2-5/8"	1"	\$35.95

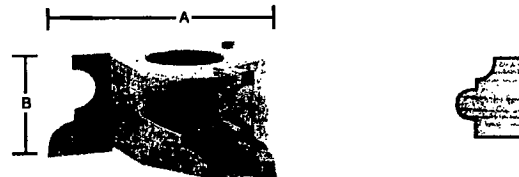
## COVE & ROUND NOSE



3/4" BORE

MODEL	CUTTER DIA. A	CUTTING LENGTH B	PRICE
C2113	2-5/8"	15/16"	\$35.95

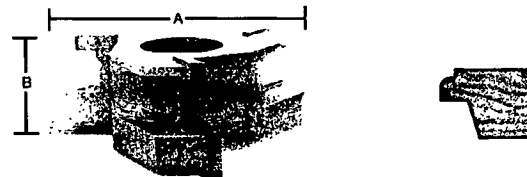
## COVE & FULL BEAD



3/4" BORE

MODEL	CUTTER DIA. A	CUTTING LENGTH B	PRICE
C2114	2-5/8"	15/16"	\$35.95

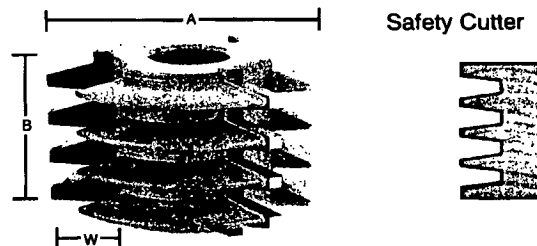
## CABINET DOOR EDGE



3/4" BORE

MODEL	CUTTER DIA. A	CUTTING LENGTH B	PRICE
C2115	2-5/8"	15/16"	\$35.95

## FINGER JOINT



Safety Cutter

3/4" BORE

MODEL	CUTTER DIA. A	CUTTING LENGTH B	CUTTING WIDTH W	PRICE
C2124	2-11/16"	1-1/2"	1/2"	\$134.95

## RABBETING



3/4" BORE

MODEL	CUTTER DIA. A	CUTTING LENGTH B	PRICE
C2030	2-5/8"	1/4"	\$19.95
C2031	2-5/8"	3/8"	\$24.95
C2032	2-5/8"	1/2"	\$24.95
C2033	2-5/8"	3/4"	\$27.95
C2034	2-5/8"	1"	\$29.95
C2035	2-5/8"	1-1/2"	\$34.95
C2036	2-5/8"	2"	\$49.95



MADE IN ISO 9002  
RATED FACTORY

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SHAPER CUTTERS SHOWN AT APPROXIMATELY 50% SCALE

GRIZZLY  
SHAPER CUTTERS

## FLUTE



3/4" BORE

MODEL	CUTTER DIA. A	CUTTING LENGTH B	PRICE
C2046	2-5/8"	1/4"	\$22.95
C2047	2-5/8"	3/8"	\$24.95
C2048	2-5/8"	1/2"	\$26.95
C2049	2-5/8"	3/4"	\$29.95
C2050	2-5/8"	1"	\$32.95

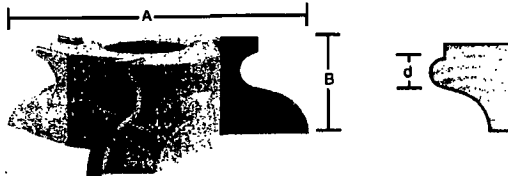
## Ogee



3/4" BORE

MODEL	CUTTER DIA. A	CUTTING LENGTH B	PRICE
C2099	2-5/8"	3/4"	\$35.95

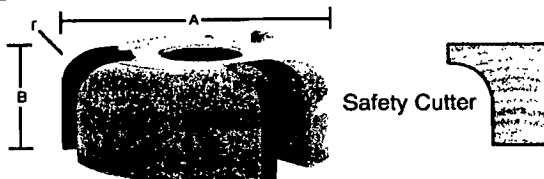
## Ogee & Bead



3/4" BORE

MODEL	CUTTER DIA. A	CUTTING LENGTH B	DIAMETER d	PRICE
C2100	3-1/4"	7/8"	3/8"	\$35.95

## ANTI-KICKBACK DROP LEAF — COVE

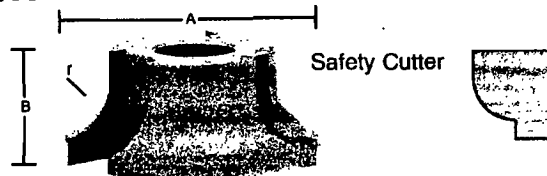


Safety Cutter

3/4" BORE

MODEL	CUTTER DIA. A	CUTTING LENGTH B	RADIUS r	PRICE
C2312	2-5/8"	1"	3/8"	\$35.95

## ANTI-KICKBACK DROP LEAF — BEAD

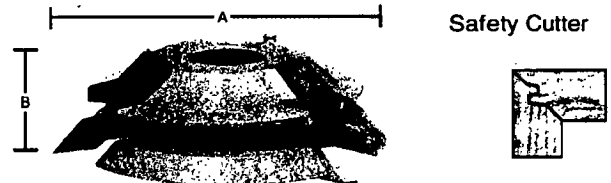


Safety Cutter

3/4" BORE

MODEL	CUTTER DIA. A	CUTTING LENGTH B	RADIUS r	PRICE
C2318	2-5/8"	1"	1/2"	\$35.95

## DOUBLE LOCK MITER



Safety Cutter

3/4" BORE

MODEL	CUTTER DIA. A	CUTTING LENGTH B	PRICE
C2125	3-3/4"	1"	\$44.95

## BEAD



3/4" BORE

MODEL	CUTTER DIA. A	CUTTING LENGTH B	CUTTING DIAMETER d	PRICE
C2052	2-5/8"	1/2"	1/4"	\$22.95
C2053	2-5/8"	5/8"	3/8"	\$24.95
C2054	2-5/8"	3/4"	1/2"	\$26.95
C2055	2-5/8"	1-1/16"	3/4"	\$29.95
C2056	2-5/8"	1-1/4"	1"	\$32.95

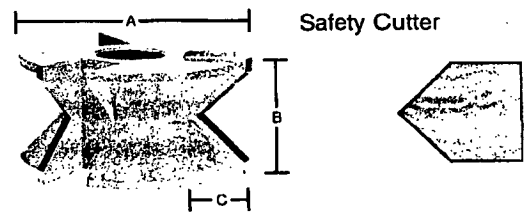
## QUARTER ROUND



3/4" BORE

MODEL	CUTTER DIA. A	CUTTING LENGTH B	CUTTING RADIUS r	PRICE
C2059	2-5/8"	7/16"	1/4"	\$19.95
C2060	2-5/8"	9/16"	3/8"	\$24.95
C2061	2-7/8"	5/8"	1/2"	\$27.95
C2062	3-3/8"	7/8"	3/4"	\$29.95
C2063	3-7/8"	1-1/4"	1"	\$39.95
C2064	4-1/2"	1-1/2"	1-1/4"	\$44.95

## ANTI-KICKBACK 90° BEVEL V-GROOVE



Safety Cutter

3/4" BORE

MODEL	CUTTER DIA. A	CUTTING LENGTH B	CUTTING DEPTH C	PRICE
C2313	2-5/8"	1-1/4"	11/16"	\$35.95

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# INDUSTRIAL QUALITY CARBIDE TIPPED SHAPER CUTTERS

MADE IN ISO 9002  
RATED FACTORY

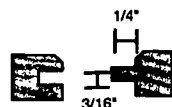
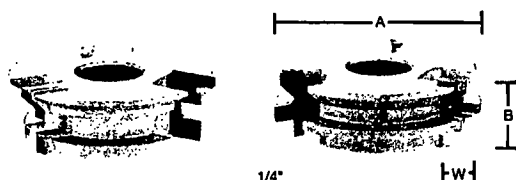
**BUY 10 OR MORE ROUTER BITS OR SHAPER CUTTERS AND DEDUCT 10%**  
ROUTER BITS SHOWN AT APPROXIMATELY 50% SCALE

## V-CUTTERS

Make paneling, wainscoting, decking and flooring with these V-match sets.



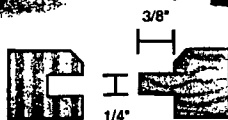
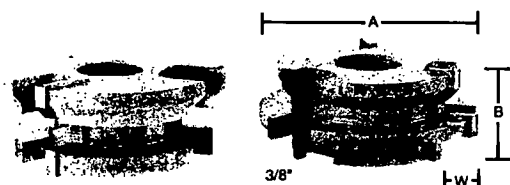
### 1/2" "V" PANELING CUTTER SET



Safety Cutter

3/4" BORE				
MODEL	CUTTER DIA. A	CUTTING LENGTH B	CUTTING WIDTH W	PRICE
C2121	2-5/8"	3/4"	7/16"	\$119.95

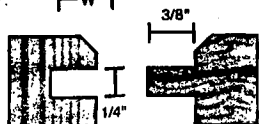
### 3/4" "V" PANELING CUTTER SET



Safety Cutter

3/4" BORE				
MODEL	CUTTER DIA. A	CUTTING LENGTH B	CUTTING WIDTH W	PRICE
C2122	2-3/4"	1"	5/8"	\$134.95

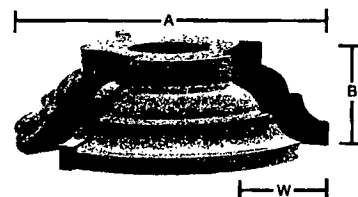
### 1" "V" PANELING CUTTER SET



3/4" BORE				
MODEL	CUTTER DIA. A	CUTTING LENGTH B	CUTTING WIDTH W	PRICE
C2123	2-3/4"	1-3/16"	5/8"	\$154.95

## REVERSIBLE DETAIL

Bead & Cove

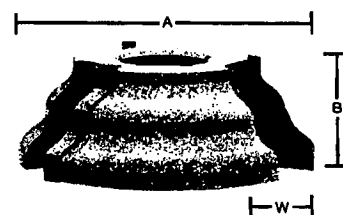


Safety Cutter

3/4" BORE				
MODEL	CUTTER DIA. A	CUTTING LENGTH B	CUTTING WIDTH W	PRICE
C2126	3"	15/16"	5/8"	\$39.95

## REVERSIBLE DETAIL

Wave

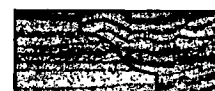
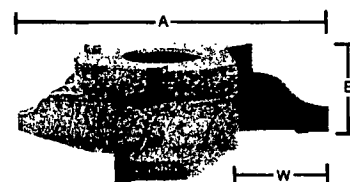


Safety Cutter

3/4" BORE				
MODEL	CUTTER DIA. A	CUTTING LENGTH B	CUTTING WIDTH W	PRICE
C2127	2-3/4"	15/16"	11/16"	\$39.95

## REVERSIBLE DETAIL

Ogee



3/4" BORE				
MODEL	CUTTER DIA. A	CUTTING LENGTH B	CUTTING WIDTH W	PRICE
C2128	3-3/8"	15/16"	3/4"	\$39.95

MADE IN ISO 9002  
RATED FACTORY

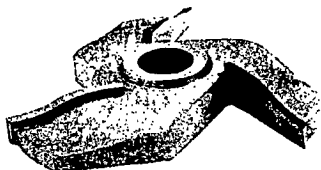
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SHAPER CUTTERS SHOWN AT APPROXIMATELY 50% SCALE

Grizzly  
SHAPER CUTTERS

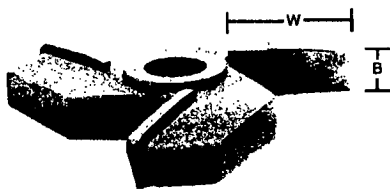
## PANEL CUTTERS

Our panel cutters are designed with a 10° upshear for faster, smoother cutting and longer life. Available in 5 profiles and two diameters. For 1/2" - 3/4" spindle shapers, use our 4 5/8" diameter cutters. Carbide thickness is 3mm thick, not 2.5mm like our competition.



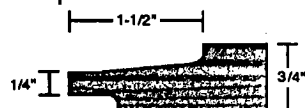
TOP  
QUALITY  
PRODUCT!

## 5° FACE CUT



PRICE  
REDUCED.  
ONLY \$59<sup>95</sup>

For 3/4" Panels



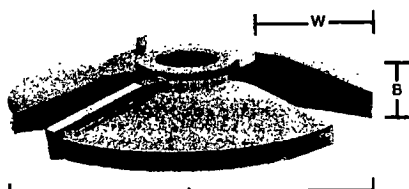
3/4" BORE

MODEL	CUTTER DIA. A	CUTTING LENGTH B	CUTTING WIDTH W	PRICE
C2065	4-5/8"	5/8"	1-1/2"	\$64.95

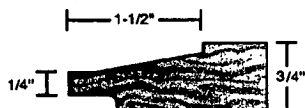
MODEL	CUTTER DIA. A	CUTTING LENGTH B	CUTTING WIDTH W	PRICE
C2074	5-1/2"	5/8"	1-1/2"	\$67.95

## 15° FACE CUT



PRICE  
REDUCED.  
ONLY \$59<sup>95</sup>

Safety Cutter



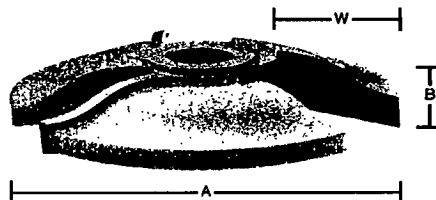
For 3/4" Panels

MODEL	CUTTER DIA. A	CUTTING LENGTH B	CUTTING WIDTH W	PRICE
C2066	4-5/8"	5/8"	1-1/2"	\$64.95

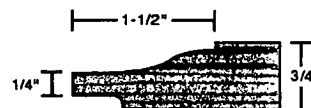
  

MODEL	CUTTER DIA. A	CUTTING LENGTH B	CUTTING WIDTH W	PRICE
C2075	5-1/2"	5/8"	1-1/2"	\$67.95

## OGEE



PRICE  
REDUCED.  
ONLY \$59<sup>95</sup>



Safety Cutter

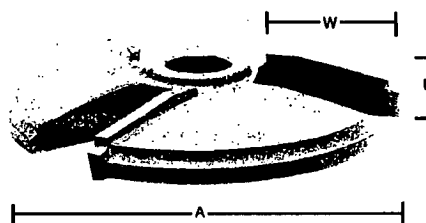
For 3/4" Panels

3/4" BORE				
MODEL	CUTTER DIA. A	CUTTING LENGTH B	CUTTING WIDTH W	PRICE
C2067	4-5/8"	5/8"	1-1/2"	\$64.95

1-1/4" BORE				
MODEL	CUTTER DIA. A	CUTTING LENGTH B	CUTTING WIDTH W	PRICE
C2076	5-1/2"	5/8"	1-1/2"	\$67.95

## 12° FACE & QUARTER ROUND



Safety Cutter



For 3/4" Panels

3/4" BORE				
MODEL	CUTTER DIA. A	CUTTING LENGTH B	CUTTING WIDTH W	PRICE
C2068	4-5/8"	5/8"	1-1/2"	\$64.95

1-1/4" BORE				
MODEL	CUTTER DIA. A	CUTTING LENGTH B	CUTTING WIDTH W	PRICE
C2077	5-1/2"	5/8"	1-1/2"	\$67.95

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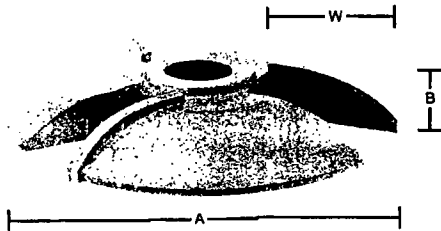
**GRIZZLY**  
SHAPER CUTTERS

## INDUSTRIAL QUALITY CARBIDE TIPPED SHAPER CUTTERS

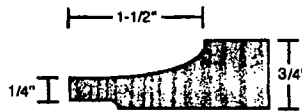
MADE IN ISO 9002  
RATED FACTORY

**BUY 10 OR MORE ROUTER BITS OR SHAPER CUTTERS AND DEDUCT 10%**  
ROUTER BITS SHOWN AT APPROXIMATELY 50% SCALE

### CONVEX



**PRICE  
REDUCED.  
ONLY \$59<sup>95</sup>**



Safety Cutter

For 3/4" Panels

3/4" BORE				
MODEL	CUTTER DIA. A	CUTTING LENGTH B	CUTTING WIDTH W	PRICE
C2069	4-5/8"	5/8"	1-1/2"	\$64.95

1-1/4" BORE				
MODEL	CUTTER DIA. A	CUTTING LENGTH B	CUTTING WIDTH W	PRICE
C2078	5-1/2"	5/8"	1-1/2"	\$67.95

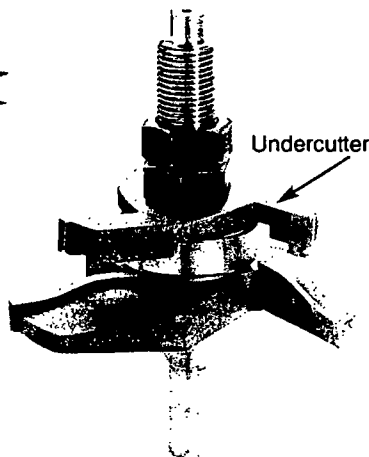
### UNDERCUTTER FOR PANEL CUTTERS

Used alone or in conjunction with our Panel Cutters, this carbide-tipped undercutter allows you to mill thicker raised panels to a standard 1/4" to match slots cut with our Stile and Rail sets. Perfect for raised panels thicker than 5/8".

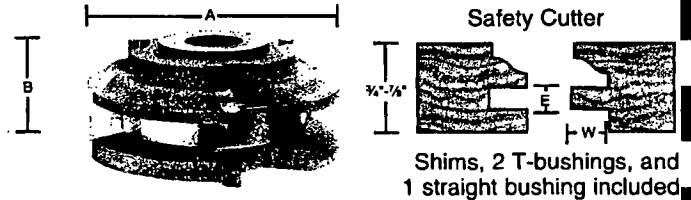
**C2300  
ONLY \$39<sup>95</sup>**

(For 3/4" Bore Only)

(Use with Rub Collar  
G1882 on pg. 302)

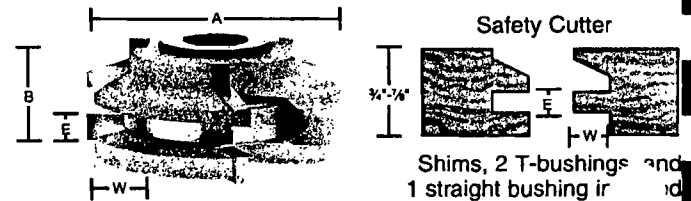


### ANTI-KICKBACK REVERSIBLE STILE & RAIL - ROMAN OGEE WITH RUB COLLAR



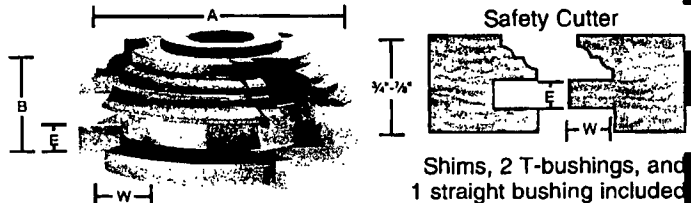
3/4" BORE					
MODEL	CUTTER DIA. A	CUTTING LENGTH B	CUTTING DEPTH W	SLOT E	PRICE
C2314	2-1/2"	1"	3/8"	1/4"	\$49.95

### ANTI-KICKBACK REVERSIBLE STILE & RAIL - BEVELED WITH RUB COLLAR



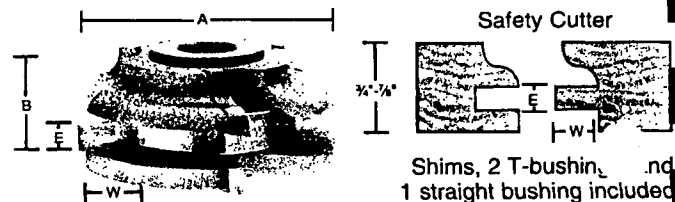
3/4" BORE					
MODEL	CUTTER DIA. A	CUTTING LENGTH B	CUTTING DEPTH W	SLOT E	PRICE
C2315	2-1/2"	1"	3/8"	1/4"	\$49.95

### ANTI-KICKBACK REVERSIBLE STILE & RAIL - CLASSICAL WITH RUB COLLAR



3/4" BORE					
MODEL	CUTTER DIA. A	CUTTING LENGTH B	CUTTING DEPTH W	SLOT E	PRICE
C2316	2-1/2"	1"	3/8"	1/4"	\$49.95

### ANTI-KICKBACK REVERSIBLE STILE & RAIL - OGEE WITH RUB COLLAR



3/4" BORE					
MODEL	CUTTER DIA. A	CUTTING LENGTH B	CUTTING DEPTH W	SLOT E	PRICE
C2317	2-1/2"	1"	3/8"	1/4"	\$49.95

MADE IN ISO 9002  
RATED FACTORY

# INDUSTRIAL QUALITY CARBIDE TIPPED SHAPER CUTTERS

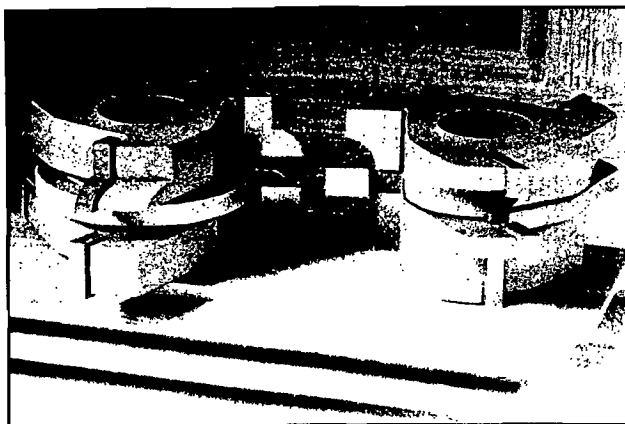
BUY 10 OR MORE ROUTER BITS OR SHAPER CUTTERS AND DEDUCT 10%  
SHAPER CUTTERS SHOWN AT APPROXIMATELY 50% SCALE

**Grizzly**  
SHAPER CUTTERS

## STILE & RAIL SETS - 6 PIECE

Cabinet Doors

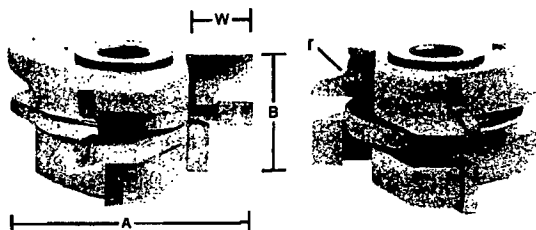
Make the custom cabinets you've always wanted with these stile and rail sets. Our 6-piece sets include 5 cutters and one spacer. We also have 1/2" and 5.5mm cutters and spacers available for 3/4" bore only. Please order panel cutters separately. (See pages 317-318).



For Standard 3/4" Material

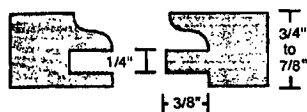
See optional cutters and spacers on  
page 323 for 3/4" bore sets.

## STILE & RAIL SET - OGEE



For a 1/4" tongue  
depth, order C2309  
(3/4" bore only) \$49.95

For glass doors,  
order C2159 (3/4"  
bore only) \$49.95



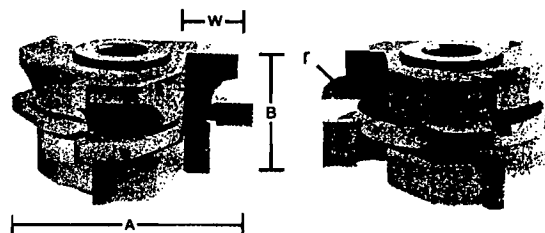
3/4" BORE

MODEL	CUTTER DIA. A	CUTTING LENGTH B	CUTTING WIDTH W	RADIUS F	PRICE
C2161	2-5/8"	7/8"	3/8"	3/16"	\$179.00

1-1/4" BORE

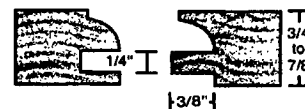
MODEL	CUTTER DIA. A	CUTTING LENGTH B	CUTTING WIDTH W	RADIUS F	PRICE
C2176	3-1/2"	7/8"	3/8"	3/16"	\$239.00

## STILE & RAIL SET - QUARTER ROUND



For a 1/4" tongue  
depth, order C2309  
(3/4" bore only) \$49.95

For glass doors,  
order C2159 (3/4"  
bore only) \$49.95



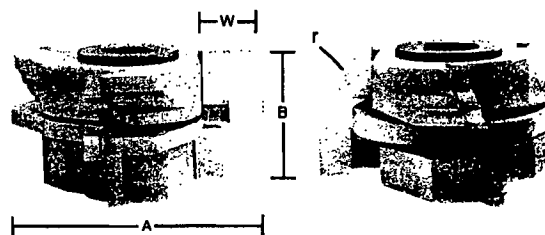
3/4" BORE

MODEL	CUTTER DIA. A	CUTTING LENGTH B	CUTTING WIDTH W	RADIUS F	PRICE
C2162	2-5/8"	7/8"	3/8"	1/4"	\$179.00

1-1/4" BORE

MODEL	CUTTER DIA. A	CUTTING LENGTH B	CUTTING WIDTH W	RADIUS F	PRICE
C2177	3-1/2"	7/8"	3/8"	1/4"	\$239.00

## STILE & RAIL SET - BEAD AND COVE



For a 1/4" tongue  
depth, order C2309  
(3/4" bore only) \$49.95

For glass doors,  
order C2159 (3/4"  
bore only) \$49.95



3/4" BORE

MODEL	CUTTER DIA. A	CUTTING LENGTH B	CUTTING WIDTH W	RADIUS F	PRICE
C2163	2-5/8"	7/8"	3/8"	1/8"	\$179.00

1-1/4" BORE

MODEL	CUTTER DIA. A	CUTTING LENGTH B	CUTTING WIDTH W	RADIUS F	PRICE
C2178	3-1/2"	7/8"	3/8"	1/8"	\$239.00

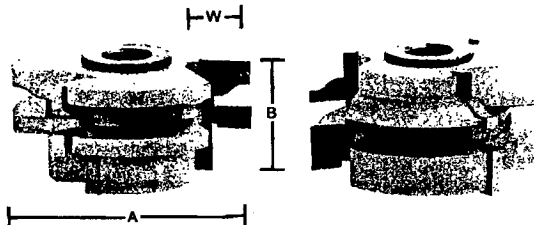
CALL 24 HOURS A DAY FROM ANYWHERE IN THE U.S.A. 1-800-523-4777

# INDUSTRIAL QUALITY CARBIDE TIPPED SHAPER CUTTERS

MADE IN ISO 9002  
RATED FACTORY

**BUY 10 OR MORE ROUTER BITS OR SHAPER CUTTERS AND DEDUCT 10%**  
ROUTER BITS SHOWN AT APPROXIMATELY 50% SCALE

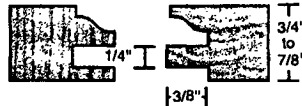
## STILE & RAIL SET - ROMAN OGEE



Safety Cutter

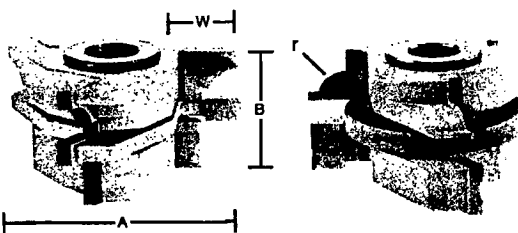
For a 1/4" tongue  
depth, order C2309  
(3/4" bore only) \$49.95

For glass doors,  
order C2159 (3/4"  
bore only) \$49.95



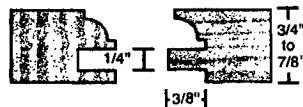
3/4" BORE				
MODEL	CUTTER DIA. A	CUTTING LENGTH B	CUTTING WIDTH W	PRICE
C2164	2-5/8"	7/8"	3/8"	\$179.00
1-1/4" BORE				
MODEL	CUTTER DIA. A	CUTTING LENGTH B	CUTTING WIDTH W	PRICE
C2179	3-1/2"	7/8"	3/8"	\$239.00

## STILE & RAIL SET - QUARTER BEAD



For a 1/4" tongue  
depth, order C2309  
(3/4" bore only) \$49.95

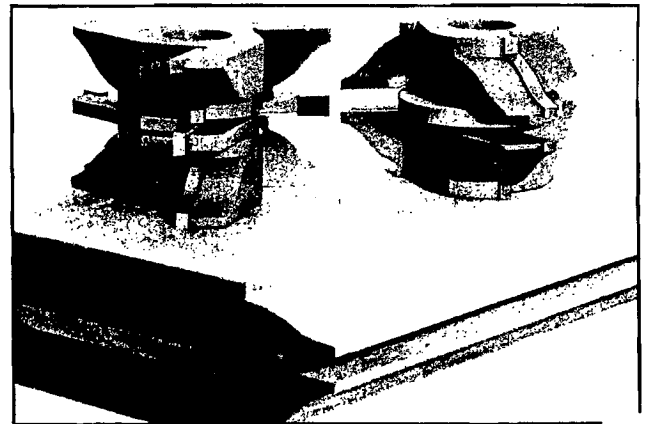
For glass doors,  
order C2159 (3/4"  
bore only) \$49.95



3/4" BORE					
MODEL	CUTTER DIA. A	CUTTING LENGTH B	CUTTING WIDTH W	RADIUS r	PRICE
C2165	2-5/8"	7/8"	3/8"	3/16"	\$179.00
1-1/4" BORE					
MODEL	CUTTER DIA. A	CUTTING LENGTH B	CUTTING WIDTH W	RADIUS r	PRICE
C2180	3-1/2"	7/8"	3/8"	3/16"	\$239.00

## STILE & RAIL SETS - 6 PIECE PASSAGE DOORS

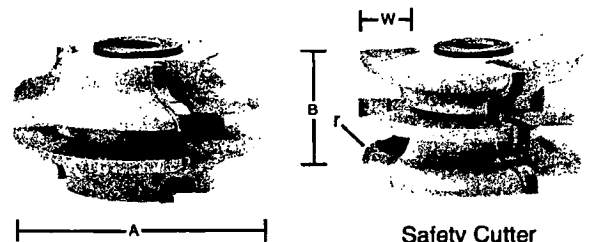
Make beautiful interior doors with these 6-piece stile and rail sets. They come complete with 5 cutters and one spacer. We also have 1/2" and 5.5mm cutters and spacers available for 3/4" bore sets and 1/4" and 1/2" cutters for 1 1/4" bore sets. Please order panel cutters separately. (See pages 317-318).



For Standard 1 3/8" Material.

See optional straight cutters and  
spacers on page 327.

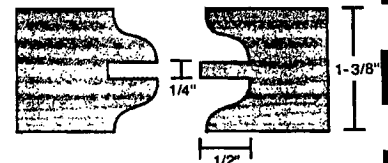
## STILE & RAIL SET - OGEE



Safety Cutter

If using 3/4" bore  
cutter for glass  
doors, order C2301.  
See Page 324.

If using 1 1/4" bore  
cutter for glass  
doors, order C2303.  
See Page 324.



3/4" BORE					
MODEL	CUTTER DIA. A	CUTTING LENGTH B	CUTTING WIDTH W	RADIUS r	PRICE
C2166	2-7/8"	1-3/8"	1/2"	1/4"	\$189.00
1-1/4" BORE					
MODEL	CUTTER DIA. A	CUTTING LENGTH B	CUTTING WIDTH W	RADIUS r	PRICE
C2181	3-3/4"	1-3/8"	1/2"	1/4"	\$259.00

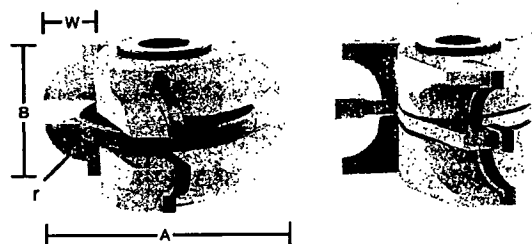
MADE IN ISO 9002  
RATED FACTORY

# INDUSTRIAL QUALITY CARBIDE TIPPED SHAPER CUTTERS

BUY 10 OR MORE ROUTER BITS OR SHAPER CUTTERS AND DEDUCT 10%  
SHAPER CUTTERS SHOWN AT APPROXIMATELY 50% SCALE

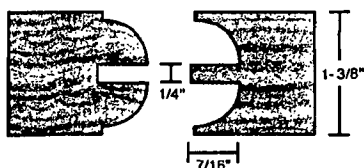
GRIZZLY  
SHAPER CUTTERS

## STILE & RAIL SET - QUARTER ROUND



If using 3/4" bore  
cutter for glass  
doors, order C2301.  
See Page 324.

If using 1 1/4" bore  
cutter for glass  
doors, order C2303.  
See Page 324.



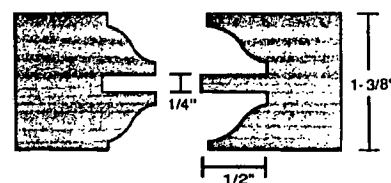
3/4" BORE					
MODEL	CUTTER DIA. A	CUTTING LENGTH B	CUTTING WIDTH W	RADIUS R	PRICE
C2167	2-7/8"	1-3/8"	1/2"	7/16"	\$189.00
1-1/4" BORE					
MODEL	CUTTER DIA. A	CUTTING LENGTH B	CUTTING WIDTH W	RADIUS R	PRICE
C2182	3-3/4"	1-3/8"	1/2"	7/16"	\$259.00

## STILE & RAIL SET - ROMAN OGEE



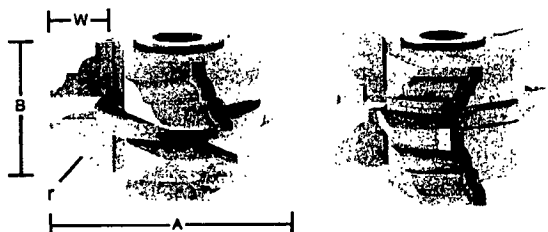
If using 3/4" bore  
cutter for glass  
doors, order C2301.  
See Page 324.

If using 1 1/4" bore  
cutter for glass  
doors, order C2303.  
See Page 324.



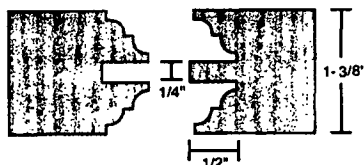
3/4" BORE					
MODEL	CUTTER DIA. A	CUTTING LENGTH B	CUTTING WIDTH W	PRICE	
C2169	2-7/8"	1-3/8"	1/2"	\$189.00	
1-1/4" BORE					
MODEL	CUTTER DIA. A	CUTTING LENGTH B	CUTTING WIDTH W	PRICE	
C2184	3-3/4"	1-3/8"	1/2"	\$259.00	

## STILE & RAIL SET - BEAD AND COVE



If using 3/4" bore  
cutter for glass  
doors, order C2301.  
See Page 324.

If using 1 1/4" bore  
cutter for glass  
doors, order C2303.  
See Page 324.



3/4" BORE					
MODEL	CUTTER DIA. A	CUTTING LENGTH B	CUTTING WIDTH W	RADIUS R	PRICE
C2168	2-7/8"	1-3/8"	1/2"	3/16"	\$189.00
1-1/4" BORE					
MODEL	CUTTER DIA. A	CUTTING LENGTH B	CUTTING WIDTH W	RADIUS R	PRICE
C2183	3-3/4"	1-3/8"	1/2"	3/16"	\$259.00

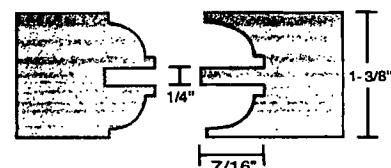
## STILE & RAIL SET - QUARTER BEAD



Safety Cutter

If using 3/4" bore  
cutter for glass  
doors, order C2301.  
See Page 324.

If using 1 1/4" bore  
cutter for glass  
doors, order C2303.  
See Page 324.



3/4" BORE					
MODEL	CUTTER DIA. A	CUTTING LENGTH B	CUTTING WIDTH W	RADIUS R	PRICE
C2170	2-7/8"	1-3/8"	1/2"	5/16"	\$189.00
1-1/4" BORE					
MODEL	CUTTER DIA. A	CUTTING LENGTH B	CUTTING WIDTH W	RADIUS R	PRICE
C2185	3-3/4"	1-3/8"	1/2"	5/16"	\$259.00

CALL 24 HOURS A DAY FROM ANYWHERE IN THE U.S.A. 1-800-523-4777

321

# INDUSTRIAL QUALITY CARBIDE TIPPED SHAPER CUTTERS

MADE IN ISO 9002  
RATED FACTORY

**BUY 10 OR MORE ROUTER BITS OR SHAPER CUTTERS AND DEDUCT 10%**  
ROUTER BITS SHOWN AT APPROXIMATELY 50% SCALE

## STILE & RAIL SETS - 6 PIECE ENTRY DOORS

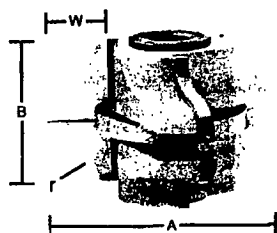
Build the entryway of your dreams using our 6-piece stile and rail set. Set includes 5 cutters and one spacer. We also have 1/2" and 5.5mm cutters and spacers available for 3/4" bore only. Please order panel cutters separately. (See page 317-318).



For Standard 1 3/4" Material

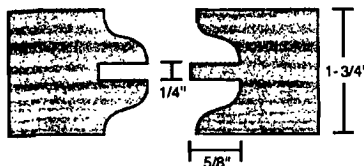
See optional straight cutters and  
spacers on page 327.

## STILE & RAIL SET - OGEE



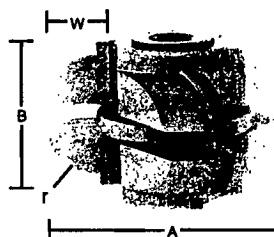
If using 3/4" bore  
cutter for glass  
doors, order C2302.  
See Page 324.

If using 1 1/4" bore  
cutter for glass  
doors, order C2304.  
See Page 324.



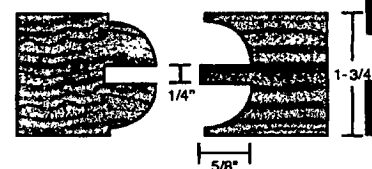
3/4" BORE					
MODEL	CUTTER DIA. A	CUTTING LENGTH B	CUTTING WIDTH W	RADIUS r	PRICE
C2171	3-1/8"	1-3/4"	5/8"	3/8"	\$209.00
1-1/4" BORE					
MODEL	CUTTER DIA. A	CUTTING LENGTH B	CUTTING WIDTH W	RADIUS r	PRICE
C2186	4"	1-3/4"	5/8"	3/8"	\$279.00

## STILE & RAIL SET - QUARTER ROUND



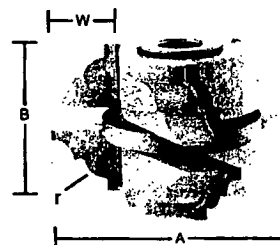
If using 3/4" bore  
cutter for glass  
doors, order C2302.  
See Page 324.

If using 1 1/4" bore  
cutter for glass  
doors, order C2304.  
See Page 324.



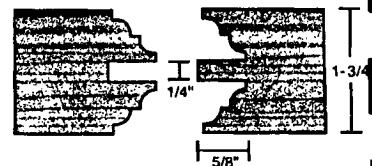
3/4" BORE					
MODEL	CUTTER DIA. A	CUTTING LENGTH B	CUTTING WIDTH W	RADIUS r	PRICE
C2172	3-1/8"	1-3/4"	5/8"	5/8"	\$209.00
1-1/4" BORE					
MODEL	CUTTER DIA. A	CUTTING LENGTH B	CUTTING WIDTH W	RADIUS r	PRICE
C2187	4"	1-3/4"	5/8"	5/8"	\$279.00

## STILE & RAIL SET - BEAD AND COVE



If using 3/4" bore  
cutter for glass  
doors, order C2302.  
See Page 324.

If using 1 1/4" bore  
cutter for glass  
doors, order C2304.  
See Page 324.



3/4" BORE					
MODEL	CUTTER DIA. A	CUTTING LENGTH B	CUTTING WIDTH W	RADIUS r	PRICE
C2173	3-1/8"	1-3/4"	5/8"	1/4"	\$209.00
1-1/4" BORE					
MODEL	CUTTER DIA. A	CUTTING LENGTH B	CUTTING WIDTH W	RADIUS r	PRICE
C2188	4"	1-3/4"	5/8"	1/4"	\$279.00



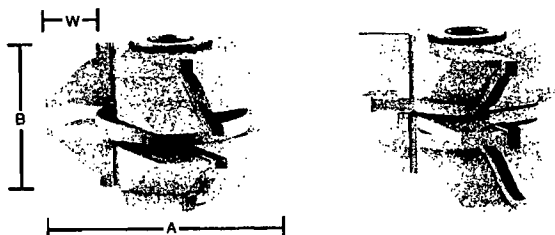
MADE IN ISO 9002  
RATED FACTORY

# INDUSTRIAL QUALITY CARBIDE TIPPED SHAPER CUTTERS

BUY 10 OR MORE ROUTER BITS OR SHAPER CUTTERS AND DEDUCT 10%  
SHAPER CUTTERS SHOWN AT APPROXIMATELY 50% SCALE

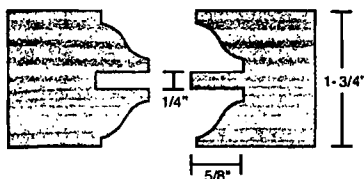
Grizzly  
SHAPER CUTTERS

## STILE & RAIL SET - ROMAN OGEE



If using 3/4" bore  
cutter for glass  
doors, order C2302.  
See Page 324.

If using 1 1/4" bore  
cutter for glass  
doors, order C2304.  
See Page 324.



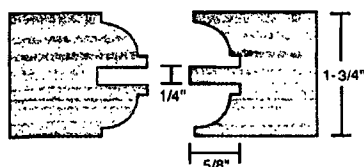
3/4" BORE				
MODEL	CUTTER DIA. A	CUTTING LENGTH B	CUTTING WIDTH W	PRICE
C2174	3-1/8"	1-3/4"	5/8"	\$209.00
1-1/4" BORE				
MODEL	CUTTER DIA. A	CUTTING LENGTH B	CUTTING WIDTH W	PRICE
C2189	4"	1-3/4"	5/8"	\$279.00

## STILE & RAIL SET - QUARTER BEAD



If using 3/4" bore  
cutter for glass  
doors, order C2302.  
See Page 324.

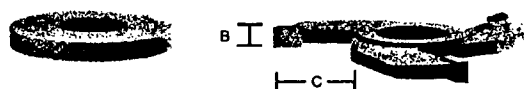
If using 1 1/4" bore  
cutter for glass  
doors, order C2304.  
See Page 324.



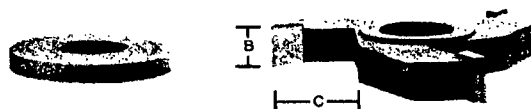
3/4" BORE					
MODEL	CUTTER DIA. A	CUTTING LENGTH B	CUTTING WIDTH W	RADIUS R	PRICE
C2175	3-1/8"	1-3/4"	5/8"	1/2"	\$209.00
1-1/4" BORE					
MODEL	CUTTER DIA. A	CUTTING LENGTH B	CUTTING WIDTH W	RADIUS R	PRICE
C2190	4"	1-3/4"	5/8"	1/2"	\$279.00

## OPTIONAL STRAIGHT CUTTERS AND SPACERS FOR 3/4" BORE STILE & RAIL SETS

Customize your 3/4" bore stile and rail sets for standard thickness plywood panels with these cutters and spacers. Choose the 5.5mm set for undersized 1/4" panels and the 1/2" set for 1/2" panels. Stack cutters for 3/4" panels. Please note that changing the tongue thickness will change the overall thickness of the stacked stile and rail sets. Adjust your stile and rail material thickness accordingly. Includes cutter and spacer.



3/4" BORE				
MODEL	USE WITH DOOR SETS	CUTTING LENGTH B	CUTTING DEPTH C	PRICE
C2160	Cabinet	5.5mm	3/8"	\$49.95
C2192	Passage	5.5mm	1/2"	\$49.95
C2191	Passage	1/2"	1/2"	\$49.95
C2195	Entry	5.5mm	5/8"	\$59.95
C2194	Entry	1/2"	5/8"	\$59.95



3/4" BORE				
MODEL	USE WITH DOOR SETS	CUTTING LENGTH B	CUTTING DEPTH C	PRICE
C2158	Cabinet	1/4"	1/2"	\$49.95
C2193	Passage	1/4"	1/2"	\$49.95
C2196	Entry	1/4"	5/8"	\$49.95

## OPTIONAL STRAIGHT CUTTERS FOR 1 1/4" BORE STILE & RAIL SETS

Customize your 1 1/4" bore stile and rail sets for variable thickness panels in 1/4" increments with these straight cutters. For 3/4" thick panels and greater, double up the cutters for your desired panel thickness. Please note that changing the thickness of the optional cutters will change the overall thickness of the stacked stile and rail sets. Adjust your stile and rail material thickness accordingly.



1-1/4" BORE				
MODEL	USE WITH DOOR SETS	CUTTING LENGTH B	CUTTING DEPTH C	PRICE
C2149	Cabinet	1/4"	3/8"	\$49.95
C2150	Cabinet	1/2"	3/8"	\$49.95
C2151	Passage	1/4"	1/2"	\$49.95
C2152	Passage	1/2"	1/2"	\$49.95
C2153	Entry	1/4"	5/8"	\$49.95
C2154	Entry	1/2"	5/8"	\$49.95

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323

# INDUSTRIAL QUALITY CARBIDE TIPPED SHAPER CUTTERS

MADE IN ISO 9002  
RATED FACTORY

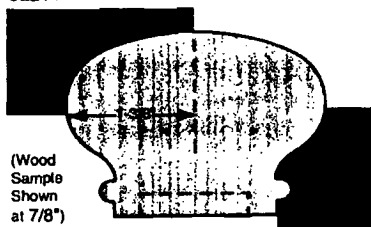
**BUY 10 OR MORE ROUTER BITS OR SHAPER CUTTERS AND DEDUCT 10%**  
ROUTER BITS SHOWN AT APPROXIMATELY 50% SCALE

## HANDRAIL SHAPER CUTTERS

Style #1

Put the finishing touch on your custom staircase with this classic handrail. Use these cutters separately to create interesting shapes and lines on other projects calling for a distinctive touch. We know you've always wanted to have a custom handrail set; the hard part is choosing which one.

C2214



(Wood Sample Shown at 7/8")

Workpiece 1 3/4" x 2 1/4"



C2214

Not To Scale



C2215

Not To Scale

Set C2216 \$174.95

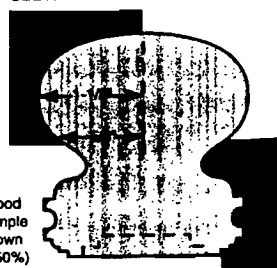
3/4" BORE				
MODEL	CUTTER DIA. A	CUTTING LENGTH B	RADIUS R	PRICE
C2214	5"	1-1/8"	—	\$89.00
C2215	3"	1-1/4"	1/8"	\$89.00

## HANDRAIL SHAPER CUTTERS

Style #2

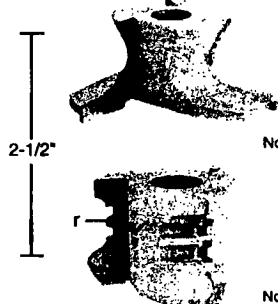
Save a fortune on expensive handrails by creating your own rail stock with your shaper. Recommended for use on 3 H.P. or larger shapers, these carbide-tipped cutters let you mill full-sized 2 1/2"-high rails out of your choice of softwoods or hardwoods. These stacking cutters are for use on 3/4" spindles.

C2217



(Wood Sample Shown at 50%)

Workpiece 2 1/4" x 2 1/4"



C2217

Not To Scale



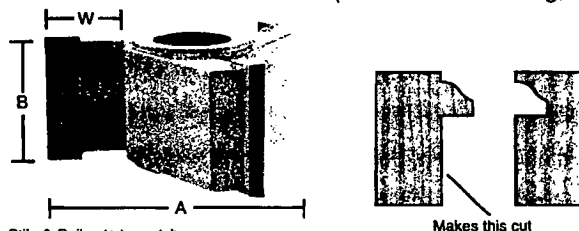
C2218

Not To Scale

3/4" BORE				
MODEL	CUTTER DIA. A	CUTTING LENGTH B	RADIUS R	PRICE
C2217	4-3/4"	1-5/8"	—	\$149.00
C2218	2-5/8"	1-5/8"	3/32"	\$99.00

## GLASS DOOR CUTTERS

We've gotten so many requests for this cutter that we just had to make one for our Stile & Rail sets. (Cutter does not cut glass.)



See Stile & Rail sets to match cutter on pgs. 320-323.

Makes this cut

3/4" BORE				
MODEL	CUTTER DIA. A	CUTTING LENGTH B	CUTTING WIDTH W	PRICE
C2301	2.913"	1-1/4"	1/2"	\$34.95
C2302	3.177"	1-1/4"	5/8"	\$34.95
1-1/4" BORE				
MODEL	CUTTER DIA. A	CUTTING LENGTH B	CUTTING WIDTH W	PRICE
C2303	3.821"	1-1/4"	1/2"	\$49.95
C2304	4.050"	1-1/4"	5/8"	\$49.95

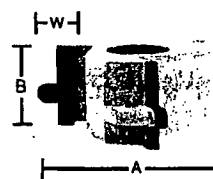
## FLOORING CUTTER SET

For 5/8" and 3/4" material

Create your own custom flooring materials from structural dimensional materials with these carbide cutters. Designed to use with 5/8" and 3/4" lumber, these cutters are great for designing new floors or for creating replacement planks for repair and renovation. For use on 3/4" spindles. Tongue and groove are below center, so you can resand and finish a number of times.

GROOVE

TONGUE



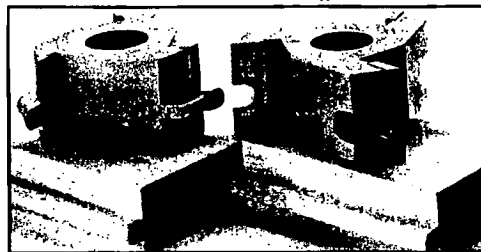
C2305



C2306



1/32" -|



Complete Set C2307 \$129.95

3/4" BORE				
MODEL	CUTTER DIA. A	CUTTING LENGTH B	CUTTING WIDTH W	PRICE
C2305	2-5/8"	1"	5/8"	\$69.95
C2306	2-5/8"	1"	1/2"	\$69.95

MADE IN ISO 9002  
RATED FACTORY

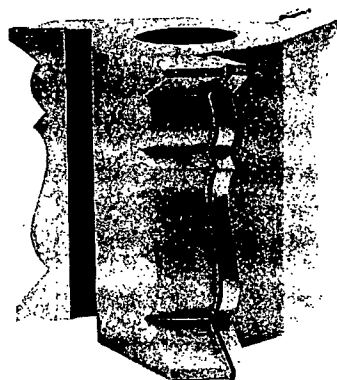
# INDUSTRIAL QUALITY CARBIDE TIPPED SHAPER CUTTERS

BUY 10 OR MORE ROUTER BITS OR SHAPER CUTTERS AND DEDUCT 10%  
SHAPER CUTTERS SHOWN AT APPROXIMATELY 50% SCALE

Grizzly  
SHAPER CUTTERS

## CROWN MOULDING STYLES

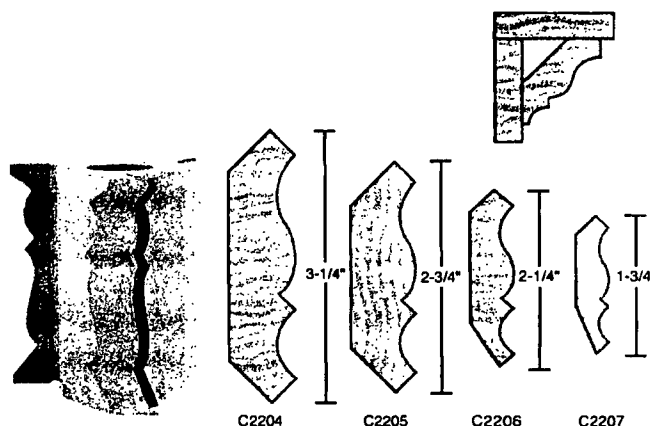
Our 1" bore industrial quality crown moulding cutters are 3 1/2" in diameter and tipped with 3mm carbide. We really overdid it this time, so produce all the moulding you want. Custom millwork companies — take a good look at these!



GRIZZLY®  
EXCLUSIVE!

3 HP 1" Spindle Shaper Recommended

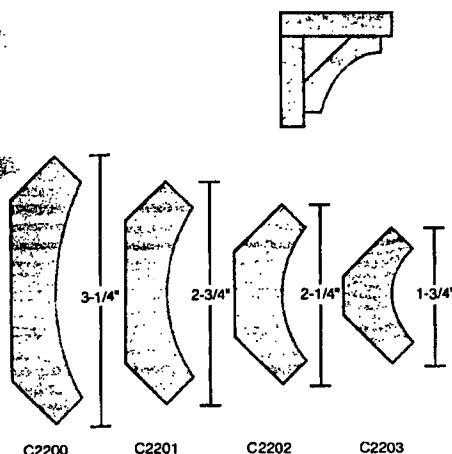
## CROWN MOULDING



(Wood Samples Shown)

1" BORE			
MODEL	CUTTER DIA.	CUTTING LENGTH	PRICE
C2204	3-1/2"	3-1/2"	\$275.00
C2205	3-1/2"	3"	\$250.00
C2206	3-1/2"	2-1/2"	\$195.00
C2207	3-1/2"	2"	\$130.00

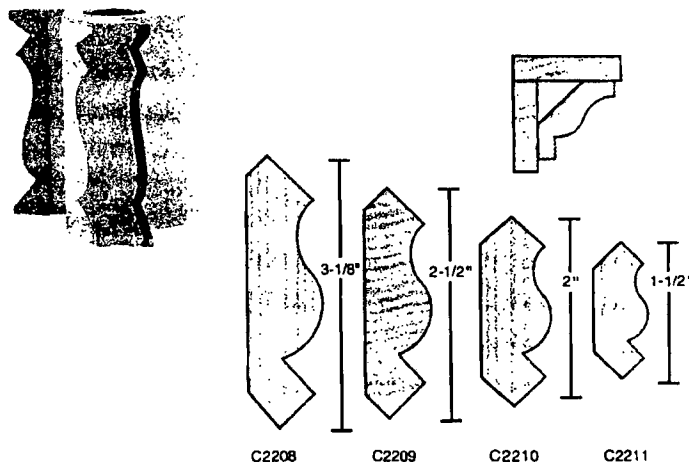
## COVE MOULDING



(Wood Samples Shown)

1" BORE				
MODEL	CUTTER DIA.	CUTTING LENGTH	RADIUS LENGTH	PRICE
C2200	3-1/2"	3-1/2"	2-1/2"	\$245.00
C2201	3-1/2"	3"	2"	\$199.00
C2202	3-1/2"	2-1/2"	1-1/2"	\$130.00
C2203	3-1/2"	2"	1"	\$89.00

## CROWN MOULDING



(Wood Samples Shown)

1" BORE			
MODEL	CUTTER DIA.	CUTTING LENGTH	PRICE
C2208	3-1/2"	3-1/2"	\$275.00
C2209	3-1/2"	3"	\$250.00
C2210	3-1/2"	2-1/2"	\$175.00
C2211	3-1/2"	2"	\$125.00

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325

**NEW** **THE ULTIMATE QUALITY**  
**CARBIDE TIPPED SHAPER CUTTERS!**  
**BUY 10 OR MORE SHAPER CUTTERS AND DEDUCT 10%**

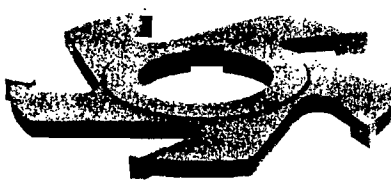

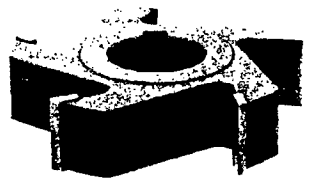











**MADE IN ISO 9002  
RATED FACTORY**

We took our metalworking experience, combined it with woodworking know-how and have designed industrial grade shaper cutters that are second to none in cutting performance.

Five blade cutterheads, micro grain carbide that is precision ground to 600 grit for razor sharp performance, high speed balancing plus ground top and bottom arbor seats leave a finished surface on the wood that is **unbelievable**. We even put in a  $\frac{5}{16}$ " keyway for use of these cutters on milling machines!

During our "torture" testing, we took full profile cuts in mahogany and found results to be astonishing. Then came the tricky part. We wanted to cut through a large knot in the wood (don't try this at home). It cut right through the knot and left a finish that looked like it had been sanded and buffed. At that point, the person who designed these advanced shaper cutters (President of Grizzly) was grinning from ear to ear!

ALL BORES ARE  $1\frac{1}{4}$ "

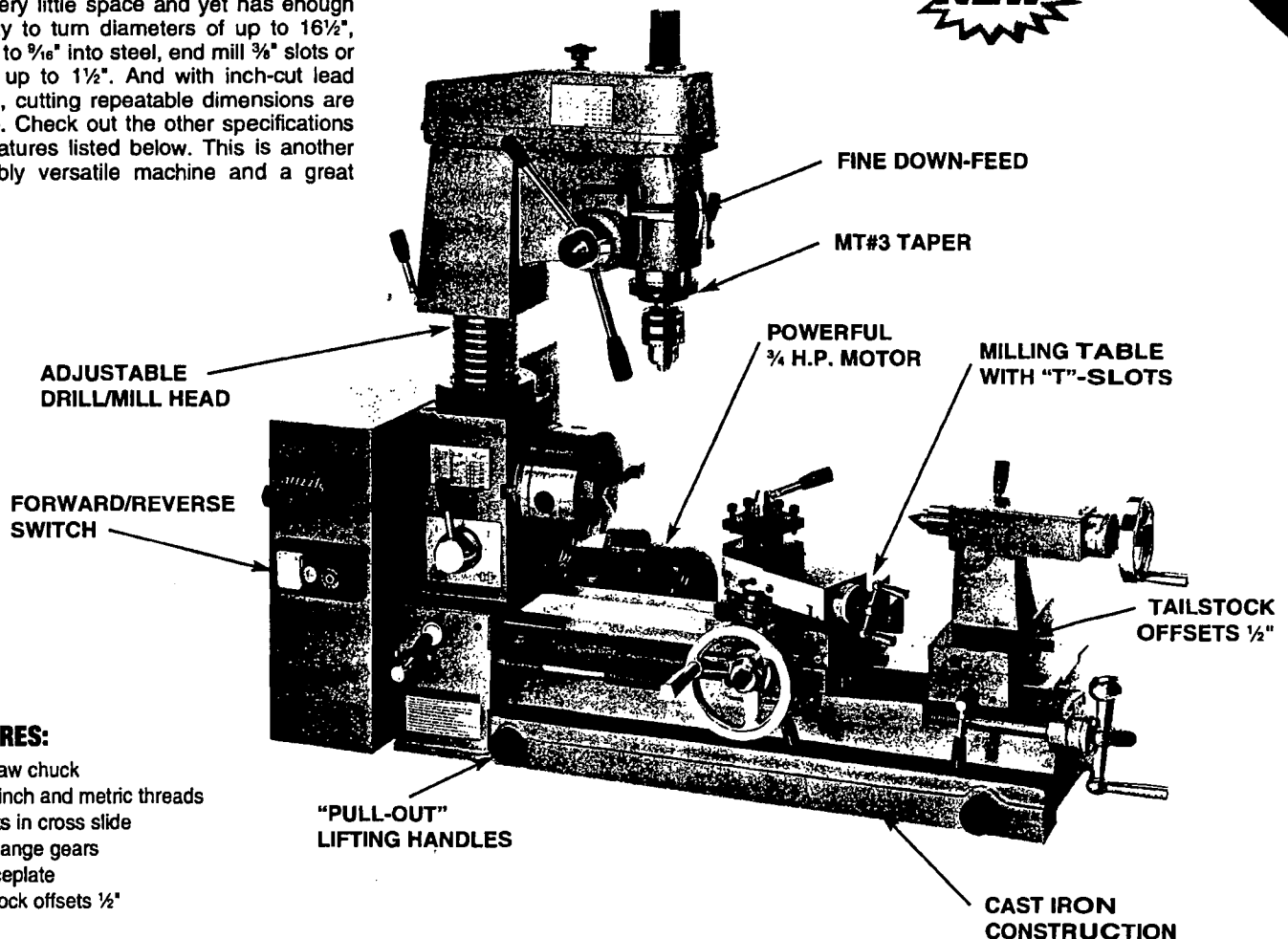
<p><b><math>\frac{1}{4}</math>" STRAIGHT CUTTER</b></p>  <p>MODEL C3688 4" dia. \$79.95</p>	<p><b><math>\frac{1}{2}</math>" STRAIGHT CUTTER</b></p>  <p>MODEL C3689 4" dia. \$79.95</p>	<p><b>1" STRAIGHT CUTTER</b></p>  <p>MODEL C3690 4" dia. \$79.95</p>
<p><b><math>\frac{3}{4}</math>" ROUNDOVER</b></p>  <p>MODEL C3691 4<math>\frac{1}{2}</math>" dia. \$89.95</p>	<p><b>PANEL CUTTER OGEE</b></p>  <p>MODEL C3692 5<math>\frac{3}{4}</math>" dia. \$99.95</p>	<p><b>PANEL CUTTER 15° FACE CUTTER</b></p>  <p>MODEL C3693 5<math>\frac{3}{4}</math>" dia. \$99.95</p>
<p><b>PANEL CUTTER 12° FACE &amp; QUARTER ROUND</b></p>  <p>MODEL C3694 5<math>\frac{3}{4}</math>" dia. \$99.95</p>	<p><b>PANEL CUTTER CONVEX</b></p>  <p>MODEL C3695 5<math>\frac{3}{4}</math>" dia. \$99.95</p>	<p><b>DOUBLE LOCK MITER</b></p>  <p>MODEL C3696 5<math>\frac{7}{8}</math>" dia. \$99.95</p>
<p><b>STAIR TREAD NOSE</b></p>  <p>MODEL C3697 4<math>\frac{5}{8}</math>" dia. \$89.95</p>	<p><b>UNDER CUTTER AND SPACER SET FOR PANEL CUTTERS</b></p>  <p>MODEL C3698 4<math>\frac{5}{8}</math>" dia. \$89.95</p>	<p><b>45° BEVEL</b></p>  <p>MODEL C3700 4<math>\frac{1}{2}</math>" dia. \$89.95</p>
<p><b>3-PC. REVERSIBLE STILE &amp; RAIL RAIL SET/ROMAN OGEE WITH SPACER</b></p>  <p>MODEL C3701 3<math>\frac{1}{2}</math>" dia. \$99.95</p>	<p><b>2 PIECE TONGUE &amp; GROOVE</b></p>  <p>MODEL C3699 4" Diameter Set \$199.95</p>	

## SMITHY TYPE COMBO LATHE/MILL - LARGE

**METAL  
LATHES**



Really cramped for space but need to do some serious machining? Our newest Combination Metal Lathe/Milling Machine uses very little space and yet has enough capacity to turn diameters of up to 16½", drill up to ⅝" into steel, end mill ⅜" slots or fly cut up to 1½". And with inch-cut lead screws, cutting repeatable dimensions are a snap. Check out the other specifications and features listed below. This is another incredibly versatile machine and a great value!



### FEATURES:

- 5" 3 jaw chuck
- Cuts inch and metric threads
- T-slots in cross slide
- 10 change gears
- 8" faceplate
- Tailstock offsets ½"

### SPECIFICATIONS:

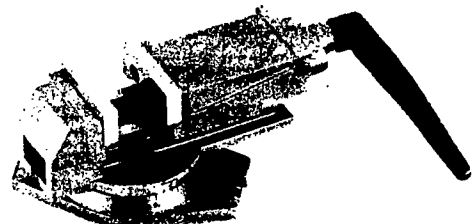
Swing over bed .....	16½"
Swing over saddle .....	11½"
Distance between centers .....	16¾"
Compound travel .....	2½"
Cross slide travel .....	4½"
Tailstock barrel travel .....	1¼"
Mill drill spindle taper .....	MT#3
Draw bar .....	¾" x 16 TPI
Speed range..117, 150, 220, 276, 290, 300, 345, 440, 450, 575, 640, 836, 1000, 1300 RPM	
Range of threads (inches) .....	8 TPI - 120 TPI in 32 Steps (Gear changes required)
Range of threads (metric) .....	19 @ .2 - 3.9 mm
Motor size (Single phase 110V) .....	¾ HP
Shipping weight approximate .....	450 lbs.

### STANDARD EQUIPMENT:

- 5" 3-jaw chuck
- ½" drill chuck
- MT#3 chuck arbor
- 2 dead centers
- Change gears
- 6" backplate

### OPTIONAL EQUIPMENT

#### 2½" BABY MILLING VISE



G9002 2½" Baby Milling Vise \$49.95

Combo Lathe/Mill

**MODEL G9728 ONLY \$950<sup>00</sup>**

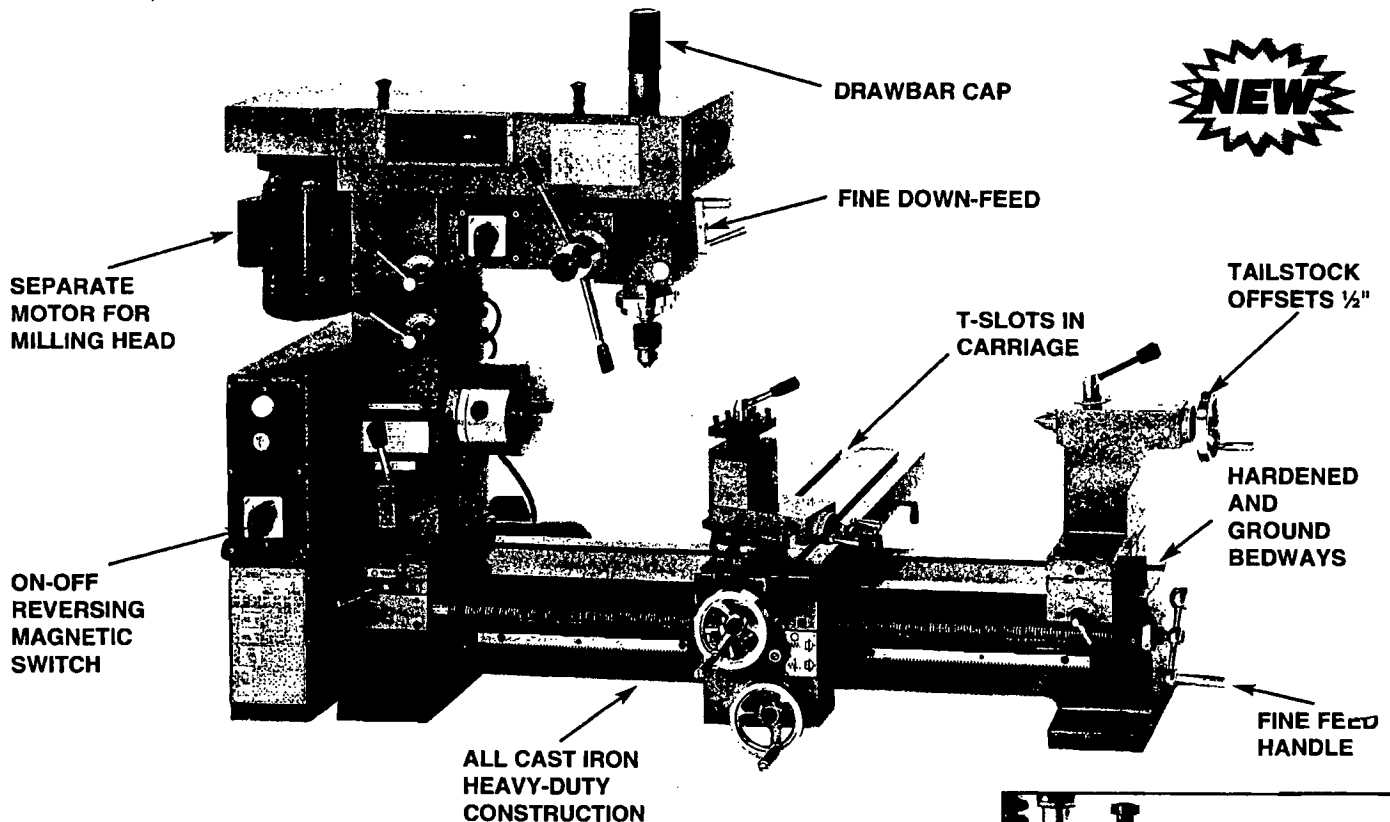
SHIP ANYWHERE WITHIN 48 STATES FOR \$68<sup>00</sup>

**\$68<sup>00</sup>**  
ANYWHERE IN  
LOWER 48 STATES

**CALL 24 HOURS A DAY FROM ANYWHERE IN THE U.S.A. 1-800-523-4777**

## COMBO LATHE/MILL

Need a larger combo machine? One with an awesome 31" between centers and more distance from center to center? Then the G9729 is the answer. With great features like a magnetic switch and a forward / reverse switch, hardened and ground bedways, two motors for extra power and a 4-way turret tool post makes this a real do-it-all machine. Cuts inch and metric threads with ease and includes a built-in table with T-slots, a steady rest and a follow rest. Convenient window allows easy verification of drill spindle speeds. An incredible machine at an unbeatable price!



**NEW**

### FEATURES:

- Forward / reverse switch
- Built-in milling table with T-slots
- Two separate motors
- Power longitudinal feed
- Magnetic switch
- four-position turret tool post
- Steady and follow rest
- Tailstock offsets 1/2"

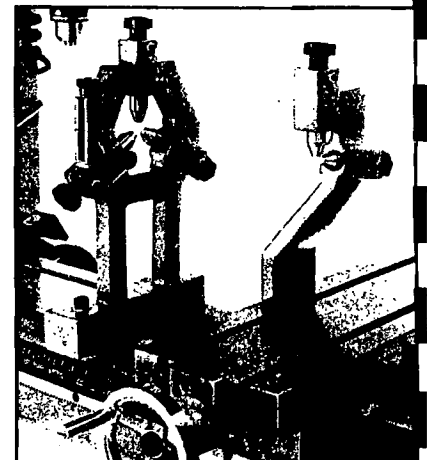
### STANDARD ACCESSORIES:

- 5" 3-jaw chuck
- 1/2" drill chuck
- MT#3 chuck arbor 3/8" x 16 TPI
- 2 dead centers
- Change gears
- Steady rest
- Follow rest
- 6" backplate

### SPECIFICATIONS:

Swing over bed.....	16 1/2"
Swing over cross slide.....	11 1/2"
Distance between centers.....	31"
Spindle.....	4-bolt intrinsic
Spindle nose taper.....	MT#4
Drawbar.....	3/8" x 16 TPI
Hole through spindle.....	1 1/8"
Tailstock barrel taper.....	MT#3
Tailstock barrel travel.....	1 1/4"
Cross slide travel.....	4 1/2"
Top slide travel.....	2 1/2"
Spindle to work table.....	12"
Spindle travel (drill).....	4 5/8"
Spindle taper (drill).....	MT#3
Number of speeds.....	7 lathe / 16 mill/drill
Lathe speed range.....	160-1360 RPM

SEE PAGE 392  
FOR  
END MILL HOLDERS



Includes follow rest and steady rest.  
(Tool post removed for photo)

Mill/drill speed range.....	120-1300 RPM
Range of threads (inches).....	4-120 TPI
Range of threads (metric).....	0.2-6mm
Motor size (Single phase 220V).....	4HP
Approximate shipping weight.....	1500 lbs.

Combo Lathe/Mill

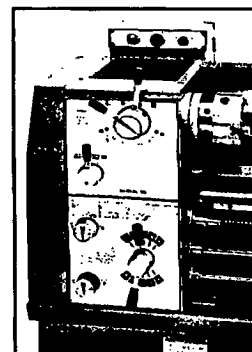
**MODEL G9729 ONLY \$1395<sup>00</sup>**

SHIP ANYWHERE WITHIN 48 STATES FOR \$115<sup>00</sup>

**\$115<sup>00</sup>**  
ANYWHERE IN  
LOWER 48 STATES

# 13" x 40" GEAR-HEAD FLOOR LATHE

METAL  
LATHES



Safety, reliability and convenience – the G9036 Floor Lathe has dozens of heavyweight features for a reasonable price. Driven by a powerful 2 HP, 220V motor, this metal monster will tackle the toughest machining jobs with ease. D1-4 cam-lock spindle is the most reliable and accurate chuck mounting system for lathes. Add an extra long foot brake and apron mounted switch control and you have precise, safe control when threading or working up close to those difficult shoulders. Gear-head makes speed and feed changes fast and a pleasure to work with. Features like these will save you time and provide a wider margin of safety.

## FEATURES:

- 2 HP motor, single phase
- Coolant system
- Apron mounted handle switch
- Front removable chip tray

## SPECIFICATIONS:

Swing over bed .....	13"
Swing over gap .....	18 1/2"
Swing over saddle .....	7 1/4"
Distance between centers .....	40"
Bed width .....	7 3/8"
Hole through spindle .....	1 1/8"
Diameter of spindle nose .....	MT#5
Gross slide travel .....	6 1/2"
Compound travel .....	2 1/2"
Tailstock barrel taper .....	MT#3
Tailstock barrel travel .....	3 1/2"
Number of speeds .....	8
Range of speeds: .....	70, 115, 190, 300, 460, 755, 1255, 2000 RPM
Motor .....	2 HP, 220 Volt, single phase
Height .....	53 1/2"
Length .....	70 1/2"
Width .....	30"
Net weight .....	1320 lbs.
Shipping weight approx .....	1760 lbs.

## 5-PC. INDEXABLE CARBIDE TOOLHOLDER SET

Five-piece turning tool set features indexable carbide inserts with "spline" type hold-down screws that allow indexing without removing the screw. Includes AR, AL, BR, BL and E style tools with carbide inserts, Allen® wrench, extra hold-down screws and wooden case.



### POSITIVE RAKE HOLDERS

MODEL	SIZE	INSERT SIZE	PRICE
G5640	1/2"	TCMT-32.51	\$27.95

## STANDARD EQUIPMENT:

- 6" 3-Jaw chuck with reversible top jaws
- 8" 4-Jaw chuck with reversible jaws
- 12" face plate
- Steady rest
- Follow rest
- Chip pan
- Splash guard
- Stand
- Threading dial
- 4-Way turret tool post
- 2 #2 MT dead centers (1 carbide tipped)
- Jog button and emergency stop

13" x 40" Lathe  
MODEL G9036 ONLY \$3995<sup>00</sup>

ONLY \$3495<sup>00</sup>

SHIP ANYWHERE WITHIN 48 STATES FOR \$200<sup>00</sup>

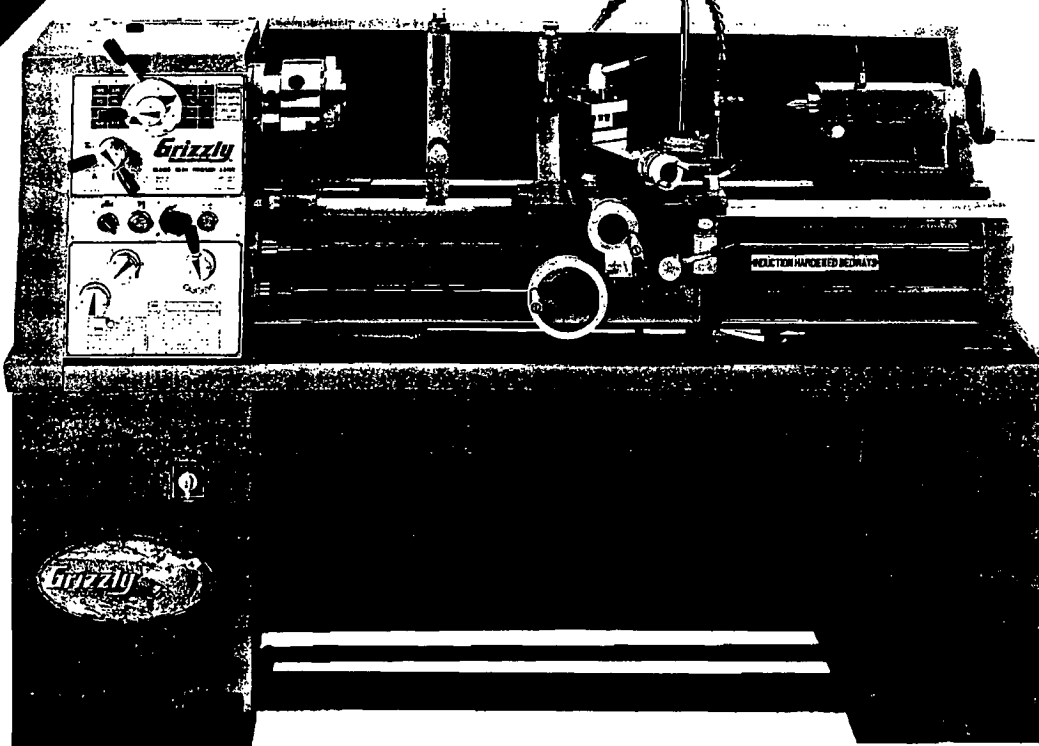
\$200<sup>00</sup>  
ANYWHERE IN  
LOWER 48 STATES

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**METAL  
LATHES**

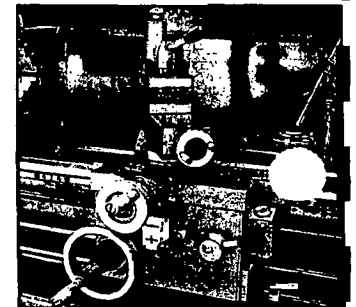
## 14" x 40" GEAR-HEAD FLOOR LATHES

**SINGLE PHASE & 3 PHASE  
MODELS AVAILABLE**



**Headstock Controls**

Headstock controls are always at your fingertips including jog button and emergency stop. Large dial arrow indicators and easy to read speed and gear charts makes this lathe a joy to operate.



These fully equipped, heavy-duty floor lathes will handle just about anything you can throw at them. Features like one-piece body, coolant system with splash guard, foot brake and interlocked feed rod and leadscrew - not to mention all the standard accessories that come with these machines - will turn your shop into a real profit center. Check out all the features and specifications and then look at the price again and you'll agree; this is one machine that's tough to beat! Choose between single phase or 3-phase.

### FEATURES

- Built-in stand
- Foot brake
- Hardened and ground gears in headstock
- Induction hardened bedways
- Jog button and emergency stop
- 6" 3-jaw chuck with two piece jaws
- 8" 4-jaw chuck
- 11 $\frac{1}{2}$ " face plate
- Steady rest / follow rest
- 4-way turret tool post
- 2 dead centers
- 3 HP, 3 phase motor
- Coolant system with back splash
- Removable chip tray
- Direct reading dial cross slide
- Threading dial
- Mounted light

### SPECIFICATIONS:

Swing over bed .....13 $\frac{3}{4}$ "  
Swing over gap .....19 $\frac{1}{2}$ "

### SPECIFICATIONS (CONTINUED):

Swing over saddle .....8 $\frac{5}{8}$ "  
Distance between centers .....40"  
Bed width .....8 $\frac{1}{8}$ "  
Spindle bore .....1 $\frac{7}{16}$ "  
Spindle nose .....D1-4  
Spindle nose taper.....MT#5  
Cross slide travel .....6 $\frac{1}{2}$ "  
Compound travel .....3 $\frac{1}{2}$ "  
Tailstock barrel taper .....MT#3  
Tailstock barrel travel.....4 $\frac{5}{8}$ "  
Number of speeds .....8 / 16  
Range of speeds:  
G5960 .....(16 speeds) 45-1800 RPM  
G7958 .....(8 speeds) 90-1800 RPM  
Number of longitudinal and cross feeds .....40  
Range of longitudinal feeds (in./rev.)...0.0012"-0.0294"  
Range of cross feeds (in./rev.)...0.0006"-0.0147"  
Number of inch threads .....40  
Range of inch threads.....4-112 TPI  
Number of metric threads .....22  
Range of metric threads .....0.45-7.5mm  
Leadscrew ..... $\frac{7}{8}$ " x 8 TPI  
Feed rod diameter ..... $\frac{3}{4}$ "  
Motor:  
G5960 .....3 HP, 2 speed, 3 phase, 220 Volt  
G7958 .....3 HP, single phase, 220 Volt  
Height .....47 $\frac{1}{2}$ "  
Length .....72"  
Width .....30 $\frac{3}{4}$ "  
Net weight.....1834 lbs.  
Shipping weight approximate .....2025 lbs.

### OPTIONAL EQUIPMENT

**TAPER ATTACHMENT**  
**MODEL G8142 ONLY \$425<sup>00</sup>**  
**COLLET ATTACHMENT**  
**MODEL G8143 ONLY \$425<sup>00</sup>**

**\$300<sup>00</sup>**  
ANYWHERE IN  
LOWER 48 STATES

**\$11889**  
Per Month O.A.C.

Single Phase 14" X 40" Lathe

**MODEL G7958 ONLY \$4695<sup>00</sup>**  
SHIP ANYWHERE WITHIN 48 STATES FOR \$300<sup>00</sup>

**\$300<sup>00</sup>**  
ANYWHERE IN  
LOWER 48 STATES

**\$12121**  
Per Month O.A.C.

3-Phase 14" x 40" Lathe

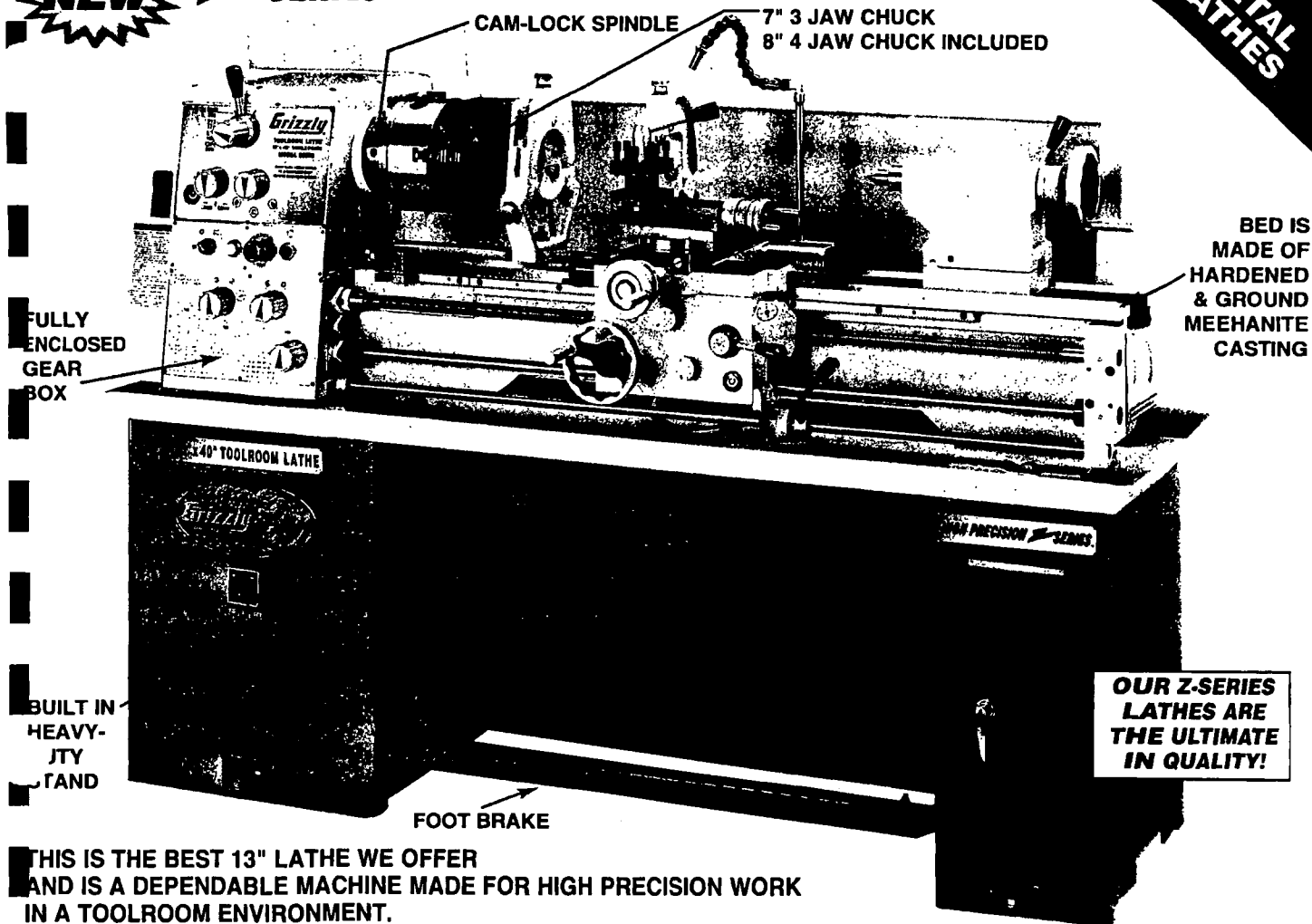
**MODEL G5960 ONLY \$4795<sup>00</sup>**  
SHIP ANYWHERE WITHIN 48 STATES FOR \$300<sup>00</sup>





# **SERIES 13" x 40" HIGH PRECISION TOOLROOM LATHE**

**METAL LATHES**



FULLY ENCLOSED GEAR BOX

CAM-LOCK SPINDLE

7" 3 JAW CHUCK  
8" 4 JAW CHUCK INCLUDED

BED IS MADE OF HARDENED & GROUND MEEHANITE CASTING

BUILT IN HEAVY-DUTY STAND

FOOT BRAKE

**OUR Z-SERIES LATHES ARE THE ULTIMATE IN QUALITY!**

**THIS IS THE BEST 13" LATHE WE OFFER AND IS A DEPENDABLE MACHINE MADE FOR HIGH PRECISION WORK IN A TOOLROOM ENVIRONMENT.**

## **FEATURES:**

- Precision ground V-bed is made of Meehanite casting
- Headstock gears run in an oil bath and are hardened and precision ground for smooth, quiet and vibration free operation
- Quick change gear box is fully enclosed and makes thread selection and engagement smooth and fast
- Feed rod is equipped with an overload clutch for safety
- Turret micrometer stop allows operator to set absolute stop to carriage for safety and close operations

## **SPECIFICATIONS:**

Swing over bed .....	13"
Swing over gap .....	19 1/2"
Swing over cross slide .....	7 1/2"
Distance between centers .....	40"
Spindle size/type .....	D1-4 camlock
Spindle nose taper .....	MT#4.4
Hole through spindle .....	1 1/8"
Tailstock barrel taper .....	MT#3
Tailstock barrel travel .....	4 3/8"
Cross slide travel .....	7 1/2"
Top slide travel .....	3 1/2"
Number of speeds .....	8
Speed range .....	105-2000 RPM
Range of threads (inches) .....	4-56 TPI
Range of threads (metric) .....	0.45-7 mm
Width of bed .....	7 1/2"
Motor size (Single and 3 phase) .....	3 HP
Shipping weight approximate .....	1980 lbs.

## **STANDARD EQUIPMENT:**

- 7" 3-Jaw chuck
- 8" 4-Jaw chuck
- 10" face plate
- Steady rest
- Follow rest
- Coolant system
- Full length splash guard
- Built-in stand
- Dual inch/metric dials
- Turret micrometer stop
- Driving plate
- Extra 8" D1-4 backplate
- Centers, center sleeve, service tools, manual and toolbox

## **OPTIONAL TAPER ATTACHMENT**

**MODEL G9736 ONLY \$450<sup>00</sup>**  
SHIP ANYWHERE WITHIN 48 STATES FOR \$20<sup>00</sup>

**\$200<sup>00</sup>**  
ANYWHERE IN LOWER 48 STATES

**\$146<sup>30</sup>**  
Per Month O.A.C.

3 H.P. 220V 3 Phase  
**MODEL G9731 ONLY \$5795<sup>00</sup>**  
SHIP ANYWHERE WITHIN 48 STATES FOR \$200<sup>00</sup>

**\$200<sup>00</sup>**  
ANYWHERE IN LOWER 48 STATES

**\$151<sup>35</sup>**  
Per Month O.A.C.

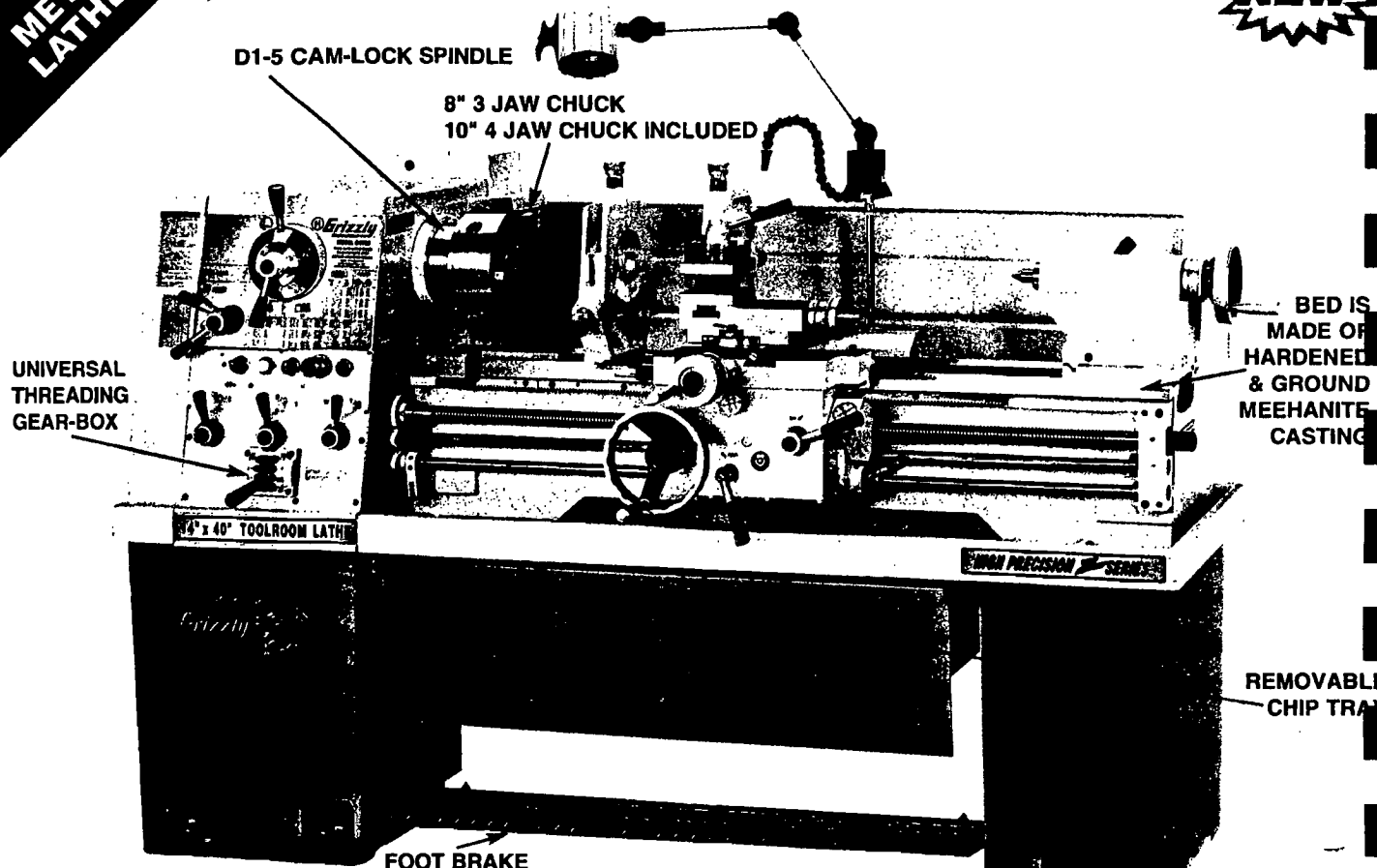
3 H.P. 220V Single Phase  
**MODEL G9730 ONLY \$5995<sup>00</sup>**  
SHIP ANYWHERE WITHIN 48 STATES FOR \$200<sup>00</sup>

**CALL 24 HOURS A DAY FROM ANYWHERE IN THE U.S.A. 1-800-523-4777**

**METAL  
LATHES**

# **SERIES 14" x 40" HIGH PRECISION TOOLROOM LATHE**

**NEW**



**MADE FOR PRECISION PRODUCTION WORK, THIS 14" TOOLROOM LATHE CAN BE PUT UP AGAINST ANY FINE QUALITY LATHE ON THE MARKET TODAY.**

## **FEATURES:**

- Precision ground V-bed is made of Meehanite casting
- Totally enclosed universal gearbox allows cutting of Inch, Metric, Whitworth, Module and Diametral threads
- Headstock gears run in an oil bath and are hardened and precision ground for smooth, quiet and vibration free operation
- Chip tray slides out for easy cleaning
- Feed rod is equipped with an overload clutch for safety
- Turret micrometer stop allows operator to set absolute stop to carriage for safety and close operations

## **SPECIFICATIONS:**

Swing over bed .....	14 1/4"
Swing over gap .....	22"
Swing over cross slide .....	8 5/8"
Distance between centers .....	40"
Spindle size/type .....	D1-5 camlock
Spindle nose taper .....	MT#5
Hole through spindle .....	1 5/8"
Tailstock barrel taper .....	MT#3
Tailstock barrel travel .....	5 1/4"
Cross slide travel .....	8 1/4"
Top slide travel .....	3 3/4"
Number of speeds .....	16
Speed range .....	35-2000 RPM
Range of threads (inches) .....	4-72 TPI
Range of threads (metric) .....	0.4-7 mm
Width of bed .....	10"
Motor size (3 phase, 220V 2 speed) .....	5 HP
Shipping weight approximate .....	2600 lbs.

## **STANDARD EQUIPMENT:**

- 8" 3-Jaw chuck
- 10" 4-Jaw chuck
- 12" face plate
- Steady rest
- Follow rest
- Coolant system
- Halogen light
- Full length splash guard
- Built-in stand
- Dual inch/metric dials
- Turret micrometer stop
- Universal threading gearbox
- Extra 8" D1-5 backplate
- 5 H.P. 2 speed motor
- Centers, center sleeve, service tools, manual and toolbox

**16 SPEEDS!**

**\$197<sup>00</sup>**  
Per Month O.A.C.

5 H.P. 220V 3 Phase 2 Speed Motor

**MODEL G9732 ONLY \$7795<sup>00</sup>**

SHIP ANYWHERE WITHIN 48 STATES FOR \$300<sup>00</sup>

## **OPTIONAL TAPER ATTACHMENT**

**MODEL G9737 ONLY \$495<sup>00</sup>**

SHIP ANYWHERE WITHIN 48 STATES FOR \$48<sup>00</sup>

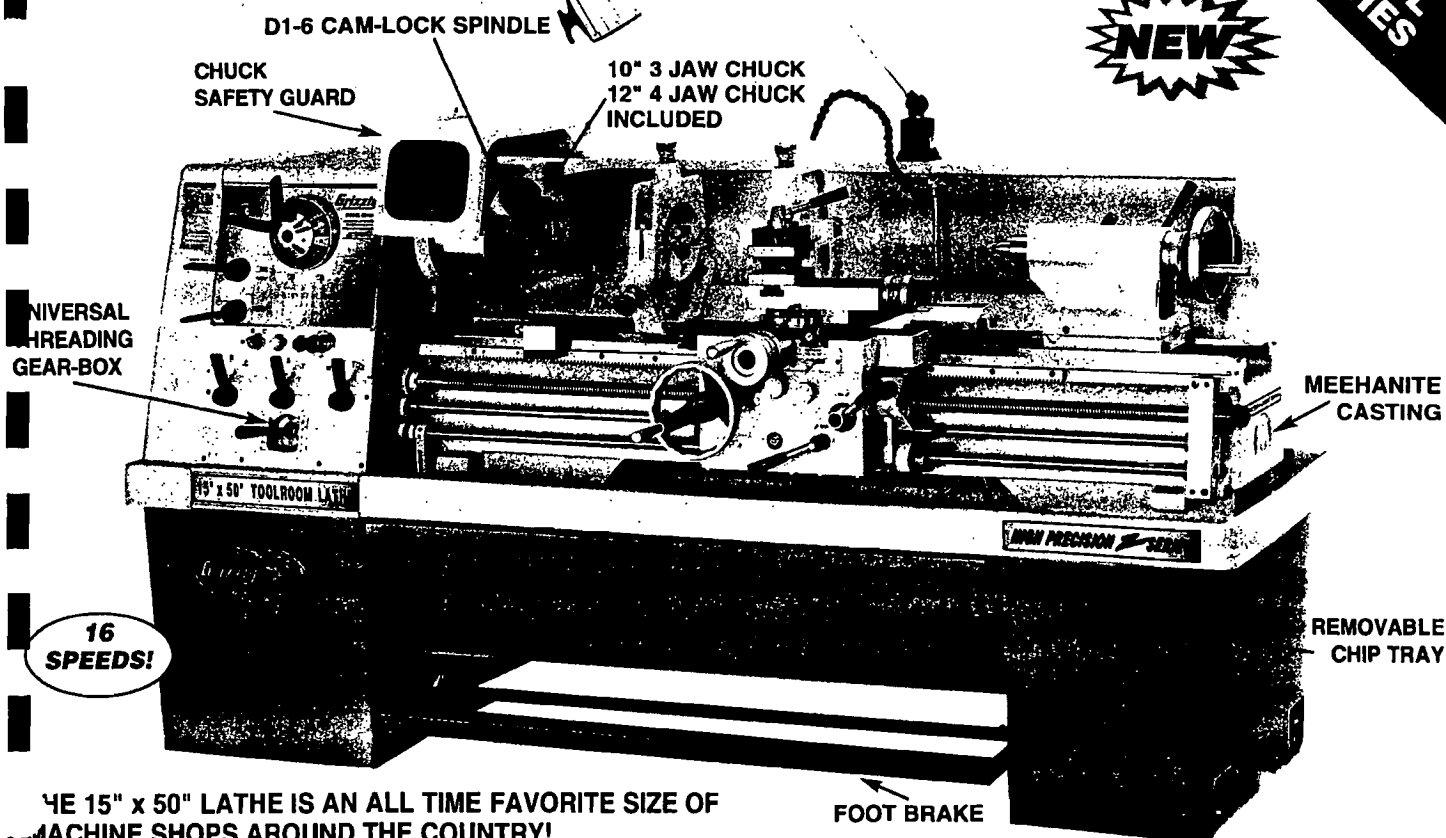
**\$300<sup>00</sup>**  
ANYWHERE  
LOWER 48

**NEW**

# **SERIES 15" x 50" HIGH PRECISION TOOLROOM LATHE**

**METAL  
LATHES**

**NEW**



**THE 15" x 50" LATHE IS AN ALL TIME FAVORITE SIZE OF MACHINE SHOPS AROUND THE COUNTRY!**

**This fine quality toolroom model is an excellent high precision machine that will become an indispensable part of your shop.**

## **FEATURES:**

- Precision ground and hardened V-bed is made of Meehanite casting
- Totally enclosed universal gearbox allows cutting of Inch, Metric, Whitworth, Module and Diametral threads
- Headstock gears run in an oil bath and are hardened and precision ground for smooth, quiet and vibration free operation
- One shot lubrication for saddle and slides
- Chip tray slides out for easy cleaning
- Feed rod is equipped with an overload clutch for safety
- Turret micrometer stop allows operator to set absolute stop to carriage for safety and close operations
- Push/pull plunger on apron for feed direction control
- Backlash eliminator on cross slide nut

## **SPECIFICATIONS:**

Swing over bed .....	15"
Swing over gap .....	24"
Swing over cross slide .....	9 1/2"
Distance between centers .....	50"
Spindle size/type .....	D1-6 camlock
Spindle nose taper .....	MT#6
Hole through spindle .....	2 1/8"
Tailstock barrel taper .....	MT#4
Tailstock barrel travel .....	6 1/8"
Cross slide travel .....	9"
Top slide travel .....	4 3/4"
Number of speeds .....	16
Speed range .....	25-2000 RPM
Range of threads (inches) .....	2-72 TPI
Range of threads (metric) .....	0.2-14 mm
Width of bed .....	11"
Motor size (3 phase, 220V) .....	7 1/2 HP
Shipping weight approximate .....	3400 lbs.

## **STANDARD EQUIPMENT:**

- 10" 3-Jaw chuck
- 12" 4-Jaw chuck
- 14" face plate
- Steady rest with finger roller jaws
- Follow rest with finger roller jaws
- Coolant system
- Halogen light
- Full length splash guard
- Chuck safety guard
- Dual inch/metric dials
- Turret micrometer stop
- Universal threading gearbox
- Extra 10" D1-6 backplate
- 7 1/2 H.P. motor
- Centers, center sleeve, service tools, manual and toolbox

**7 1/2 H.P. 220V 3 Phase Motor**

**MODEL G9733 ONLY \$9995<sup>00</sup>**  
SHIP ANYWHERE WITHIN 48 STATES FOR \$400<sup>00</sup>

## **OPTIONAL TAPER ATTACHMENT**

**MODEL G9738 ONLY \$695<sup>00</sup>**  
SHIP ANYWHERE WITHIN 48 STATES FOR \$48<sup>00</sup>

**2 1/8" SPINDLE BORE**

**\$25287**  
Per Month O.A.C.

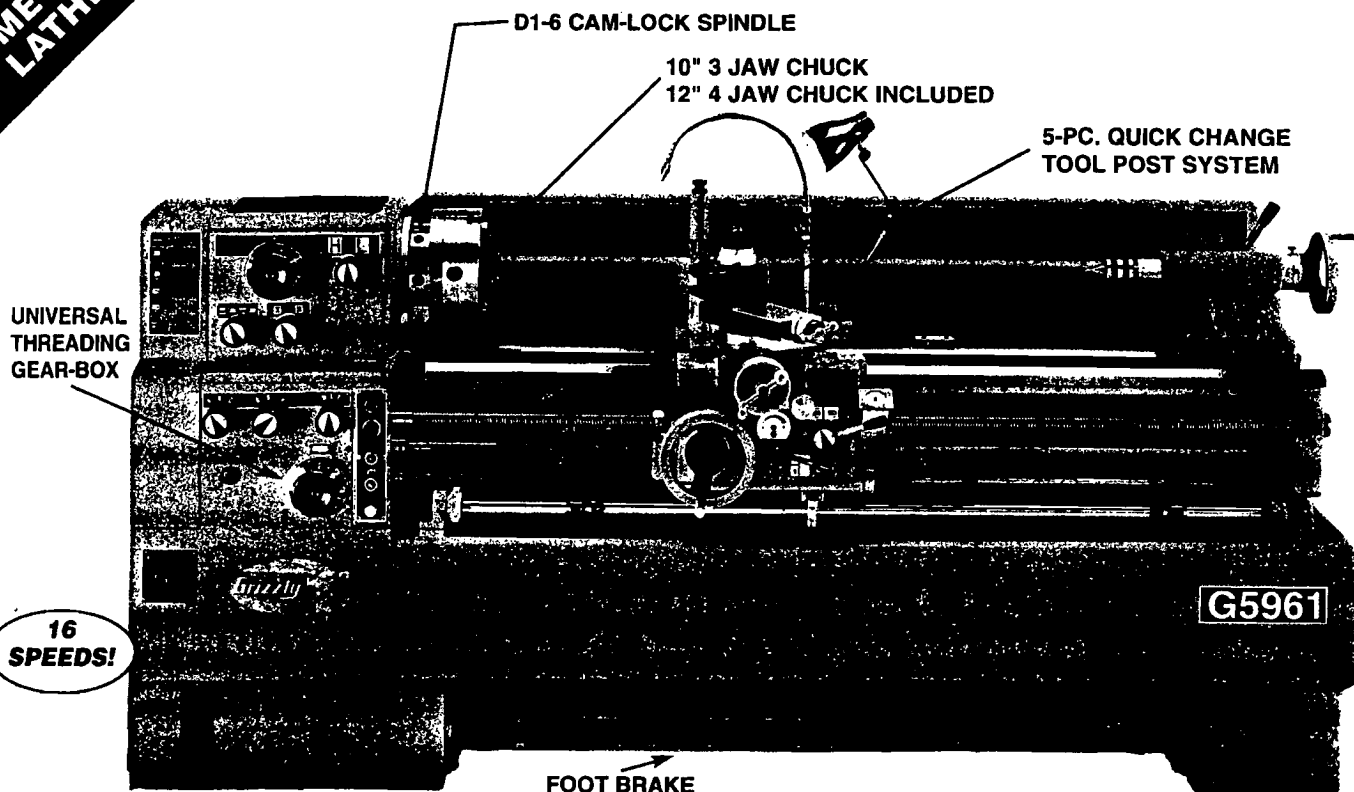
**\$400**  
ANYWHERE IN LOWER 48 STATES

**NEW**

**CALL 24 HOURS A DAY FROM ANYWHERE IN THE U.S.A. 1-800-523-4777**

**METAL  
LATHES**

## 16" x 60" PRECISION MACHINE SHOP LATHE



This lathe is loaded with outstanding features, plenty of power with the 2 speed, 3-phase motor and a complete accessory package. You get 16 spindle speeds,  $2\frac{1}{16}$ " spindle bore, no gear changes for all metric and standard thread cutting, hex shaft feed rod for long lasting and smooth power transmission, auto carriage stop with indexable stops (a great feature in itself), extra heavy castings and a stabilizing  $11\frac{1}{4}$ " bed width. With all these items as standard equipment, this machine will be an excellent addition to any machine shop.

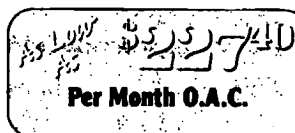
**$2\frac{1}{16}$ "  
SPINDLE BORE**

### FEATURES:

- Precision hardened and ground V-bed
- Totally enclosed universal gearbox allows cutting of Metric, Whitworth. Module and Diametral threads can be cut by changing gears provided with machine
- Headstock gears run in an oil bath and are hardened and precision ground for smooth, quiet and vibration free operation
- One piece base
- Carriage mounted on/off control lever
- Jog button and emergency stop button standard

### SPECIFICATIONS:

Swing over bed .....	16"
Swing over gap .....	23 $\frac{1}{4}$ "
Swing over cross slide .....	9 $\frac{9}{16}$ "
Distance between centers .....	60"
Spindle size/type .....	D1-6 camlock
Spindle nose taper .....	MT#6
Hole through spindle .....	2 $\frac{1}{16}$ "
Tailstock barrel taper .....	MT#4
Tailstock barrel travel .....	4 $\frac{5}{8}$ "
Cross slide travel .....	8 $\frac{3}{8}$ "
Top slide travel .....	4 $\frac{5}{8}$ "
Number of speeds .....	16
Speed range .....	45-2000 RPM
Range of threads (inches) 40 .....	2-56 TPI
Range of threads (metric) 60 .....	0.4-14 mm
Width of bed .....	11 $\frac{1}{4}$ "
Motor size (3 phase, 220V, 2 speed) .....	6 HP
Dimensions .....	50" H x 102 $\frac{1}{2}$ " L x 37" D
Shipping weight approximate .....	5400 lbs.



### STANDARD EQUIPMENT:

- 10" 3-Jaw chuck
- 12" 4-Jaw chuck
- 15" face plate
- 9" dog plate
- Steady rest
- Follow rest
- Coolant system
- Work light
- Full length splash guard
- 5-pc. quick change tool post system
- Taper attachment
- Universal threading gearbox
- 6 H.P. 2 speed motor
- MT#4 rolling center
- Centers, center sleeve, service tools, leveling pads, manual and toolbox

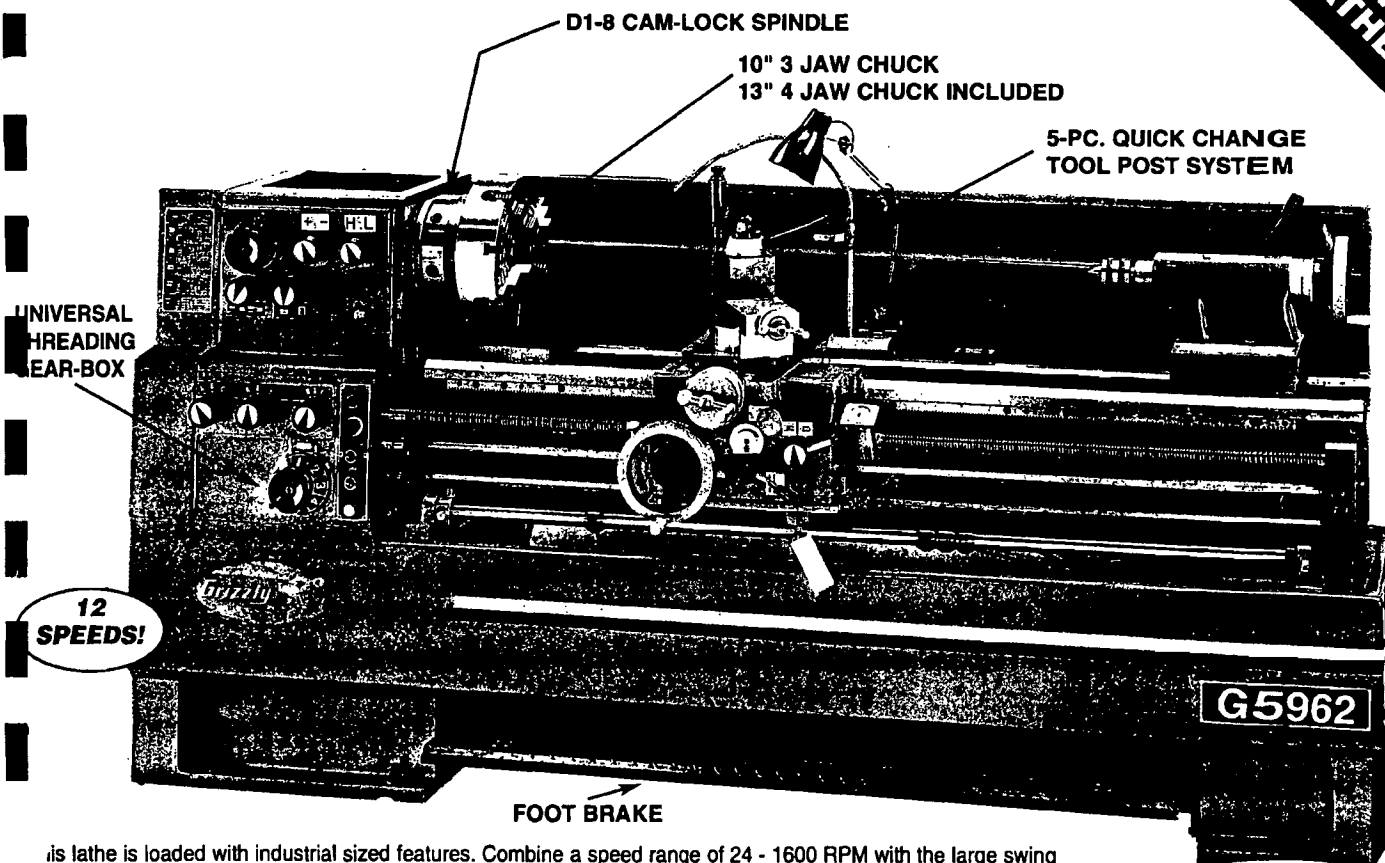
Taper attachment included

6 H.P. 220V 3 Phase Motor  
**MODEL G5961 ONLY \$8995<sup>00</sup>**  
 SHIP ANYWHERE WITHIN 48 STATES FOR \$500<sup>00</sup>

**\$500<sup>00</sup>**  
 ANYWHERE IN  
 LOWER 48 STATES

# 18" x 60" PRECISION MACHINE SHOP LATHE

**METAL  
LATHES**



**3 1/16"  
SPINDLE BORE**

This lathe is loaded with industrial sized features. Combine a speed range of 24 - 1600 RPM with the large swing dimensions (11 1/4" clearance over the cross slide!) and you get great finishes at maximum diameters! Other important features include: a large 3 1/16" spindle bore, auto carriage stop with indexable cams, apron clutch, interlocked apron controls, hex shaft feed rod, 1 1/4" wide bed and no gear changes for inch or metric threading plus much, much more! Take a look at the standard equipment that comes with this machine and you'll agree, this is an incredible package for less than ten grand! We have not sacrificed one ounce of quality - this is one beautiful machine!

## FEATURES:

- Precision hardened and ground V-bed
- Totally enclosed universal gearbox allows cutting of Metric and Whitworth. Module and Diametral threads can be cut by changing gears provided with machine
- Headstock gears run in an oil bath and are hardened and precision ground for smooth, quiet and vibration free operation

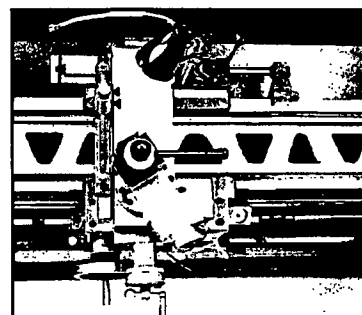
## SPECIFICATIONS:

Swing over bed .....	18 1/4"
Swing over gap .....	24 3/4"
Swing over cross slide .....	11 1/4"
Distance between centers .....	60"
Spindle size/type .....	D1-8 camlock
Spindle nose taper .....	MT#8
Hole through spindle .....	3 1/16"
Tailstock barrel taper .....	MT#4
Tailstock barrel travel .....	4 3/4"
Cross slide travel .....	8 5/8"
Top slide travel .....	4 1/4"
Number of speeds .....	12
Speed range .....	24-1600 RPM
Range of threads (inches) 40 .....	2-56 TPI
Range of threads (metric) 60 .....	0.4-14 mm
Width of bed .....	11 1/4"
Motor size (3 phase, 220V 2 speed) .....	6 HP
Dimensions .....	51" H x 102" L x 38 1/2" D
Shipping weight approximate .....	5300 lbs.

*Lowest Price*  
**\$25287**  
Per Month O.A.C.

## STANDARD EQUIPMENT:

- 10" 3-Jaw chuck
- 13" 4-Jaw chuck
- 16 1/2" face plate
- 9" dog plate
- Steady rest
- Follow rest
- Coolant system
- Work light
- Full length splash guard
- 5-pc. quick change tool post system
- Taper attachment
- Universal threading gearbox
- 6 H.P. 2 speed motor
- MT#4 rolling center
- Centers, center sleeve, service tools, leveling pads, manual and toolbox



Taper attachment included

6 H.P. 220V 3 Phase 2 speed Motor

**MODEL G5962 ONLY \$9995<sup>00</sup>**

SHIP ANYWHERE WITHIN 48 STATES FOR \$500<sup>00</sup>

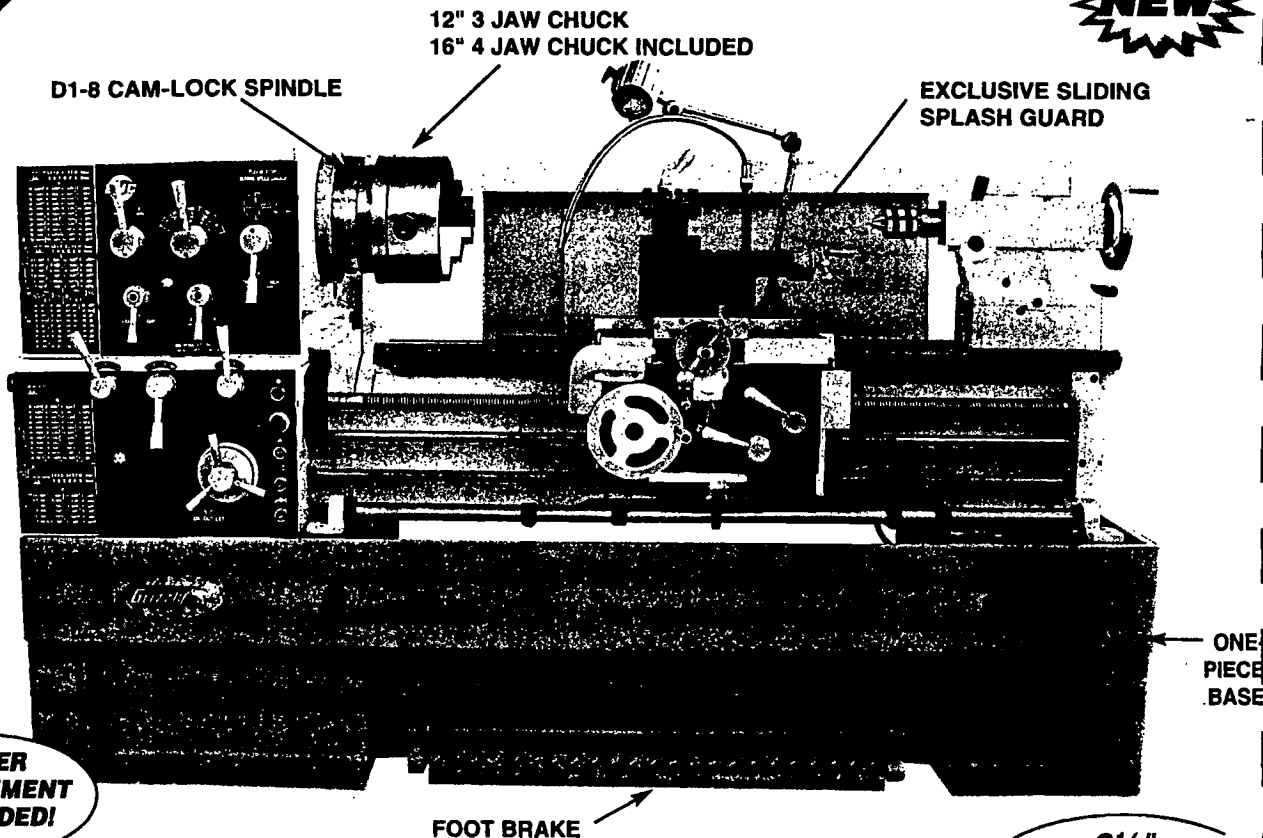
**\$500<sup>00</sup>**  
ANYWHERE IN  
LOWER 48 STATES

**CALL 24 HOURS A DAY FROM ANYWHERE IN THE U.S.A. 1-800-523-4777**

**METAL  
LATHES**

## 20" x 60" PRECISION TOOLROOM LATHE

**NEW**



This precision lathe features heavy-duty abilities on a small footprint! Spindle gears are hardened and fine ground as well as fully balanced, making the machine perform quietly at high speeds and keeping the vibrations to a minimum.

### FEATURES:

- Precision hardened and ground V-bed
- Headstock gears run in an oil bath and are hardened and precision ground for smooth, quiet and vibration free operation
- Backsplash features a sliding door for easy access
- Numerous accessories as well as a taper attachment are standard with the machine
- Turret micrometer stop allows operator to set absolute stop to carriage for safety and close operations

### SPECIFICATIONS:

Swing over bed .....	20"
Swing over gap .....	28 7/8"
Swing over cross slide .....	12 1/2"
Distance between centers .....	59"
Spindle size/type .....	D1-8 camlock
Spindle nose taper .....	MT#7
Hole through spindle .....	3 1/8"
Tailstock barrel taper .....	MT#4
Tailstock barrel travel .....	5"
Cross slide travel .....	9 1/2"
Top slide travel .....	4 7/8"
Speed range .....	16-1600 RPM
Range of threads (inches) .....	2-56 TPI
Range of threads (metric) .....	0.5-14 mm
Width of bed .....	11 1/4"
Motor size (3 phase, 208V 2 speed) .....	10 HP
Shipping weight approximate .....	5250 lbs.

### STANDARD EQUIPMENT:

- 12" 3-Jaw chuck
- 16" 4-Jaw chuck
- 17" face plate
- Steady rest
- Follow rest
- Coolant system
- Taper attachment
- Full length splash guard
- Chuck safety guard
- Dual inch/metric dials
- Turret micrometer stop
- 10 H.P. motor
- MT#4 live center
- Centers, center sleeve, service tools, manual and toolbox

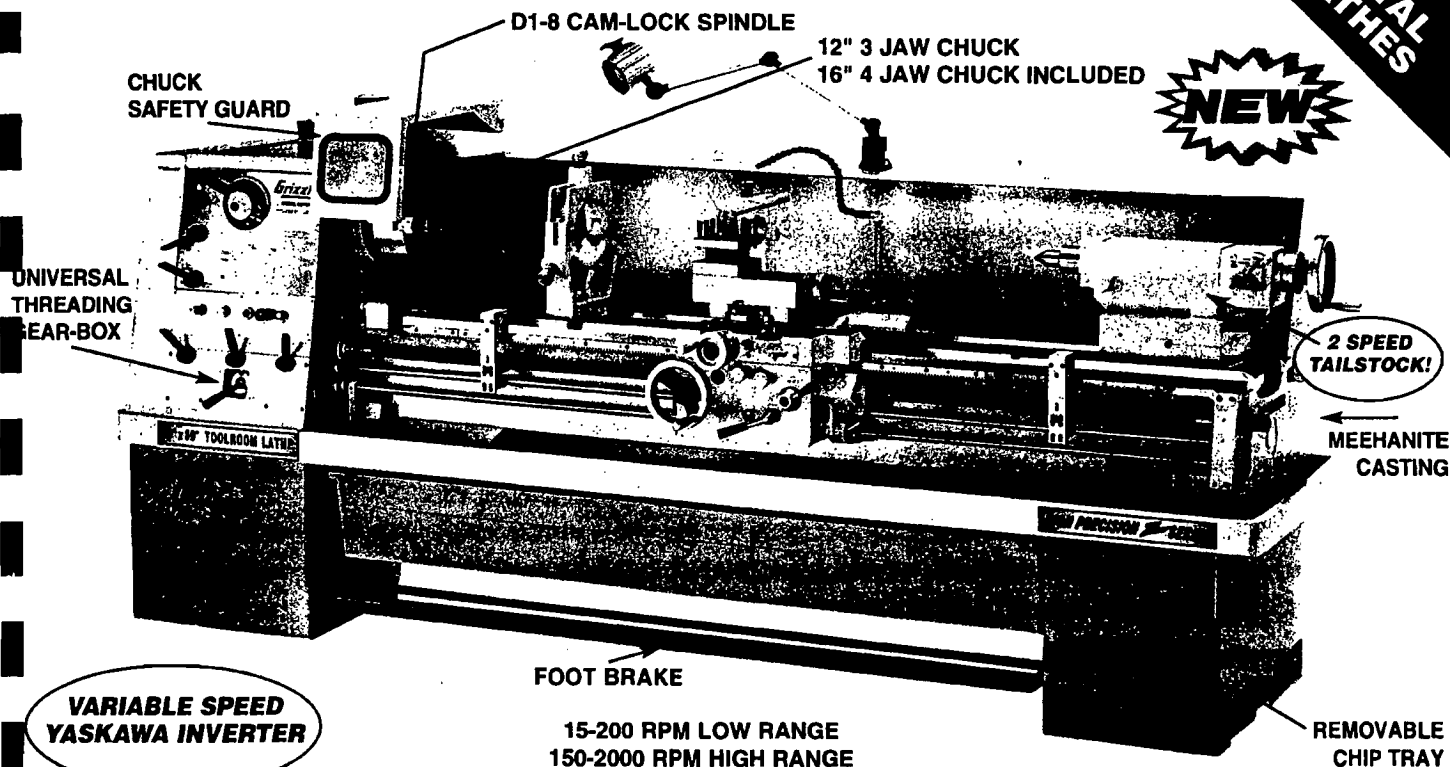
**\$27795**  
Per Month O.A.C.

10 H.P. 220V 3 Phase Motor  
**MODEL G9931 ONLY \$10,995<sup>00</sup>**  
SHIP ANYWHERE WITHIN 48 STATES FOR \$600<sup>00</sup>

**\$600**  
ANYWHERE IN  
LOWER 48 STATES

# **SERIES 20" x 80" HIGH PRECISION TOOLROOM LATHE**

**METAL LATHES**



**VARIABLE SPEED  
YASKAWA INVERTER**

**FOOT BRAKE**

**15-200 RPM LOW RANGE  
150-2000 RPM HIGH RANGE**

**REMOVABLE  
CHIP TRAY**

This is our largest high precision lathe meant for larger shops that require a toolroom grade workhorse. Features like 2 speed tailstock, 3 1/8" spindle bore, variable speeds from 15-2000 RPM and large capacities all around make this an efficient production machine.

## **FEATURES:**

- Precision hardened and ground V-bed is made of Meehanite casting
- Totally enclosed universal gearbox allows cutting of Metric, Whitworth, Module and Diametral threads
- Headstock gears run in an oil bath and are hardened and precision ground for smooth, quiet and vibration free operation
- One shot lubrication for saddle and slides
- Chip tray slides out for easy cleaning
- Feed rod is equipped with an overload clutch for safety
- Turret micrometer stop allows operator to set absolute stop to carriage for safety and close operations
- Push/pull plunger on apron for feed direction control
- Backlash eliminator on cross slide nut

## **SPECIFICATIONS:**

Swing over bed .....	20"
Swing over gap .....	30"
Swing over cross slide .....	13 1/2"
Distance between centers .....	80"
Spindle size/type .....	D1-8 camlock
Spindle nose taper .....	MT#7
Hole through spindle .....	3 1/8"
Tailstock barrel taper .....	MT#5
Tailstock barrel travel (2 speed) .....	7"
Cross slide travel .....	10 1/2"
Top slide travel .....	5 1/4"
Number of speeds .....	Variable Speed
Speed range .....	15-2000 RPM
Range of threads (inches) .....	2-72 TPI
Range of threads (metric) .....	0.4-14 mm
Width of bed .....	13"
Motor size (3 phase, 208V 2 speed) .....	10 HP
Shipping weight approximate .....	6500 lbs.

## **STANDARD EQUIPMENT:**

- 12" SK type H.D. 3-Jaw chuck
- 16" 4-Jaw chuck
- 17" face plate
- Steady rest with finger roller jaws
- Follow rest with finger roller jaws
- Coolant system
- Halogen light
- Full length splash guard
- Yaskawa G5 10 H.P. inverter
- Chuck safety guard
- Dual inch/metric dials
- Turret micrometer stop
- Universal threading gearbox
- Extra 12" D1-8 backplate
- 10 H.P. motor
- 2 speed tailstock
- Centers, center sleeve, service tools, manual and toolbox

10 H.P. 220V 3 Phase Motor  
**MODEL G9734 ONLY \$19,950<sup>00</sup>**  
SHIP ANYWHERE WITHIN 48 STATES FOR \$600<sup>00</sup>

**OPTIONAL TAPER ATTACHMENT**  
**MODEL G9739 ONLY \$1,195<sup>00</sup>**  
SHIP ANYWHERE WITHIN 48 STATES FOR \$48<sup>00</sup>

**3 1/8"  
SPINDLE BORE**

**\$4185<sup>83</sup>**  
**Per Month O.A.C.**

**\$600<sup>00</sup>**  
ANYWHERE IN  
LOWER 48 STATES

**NEW**

**CALL 24 HOURS A DAY FROM ANYWHERE IN THE U.S.A. 1-800-523-4777**

# MINI MILLING MACHINE

## MINI MILLING MACHINE

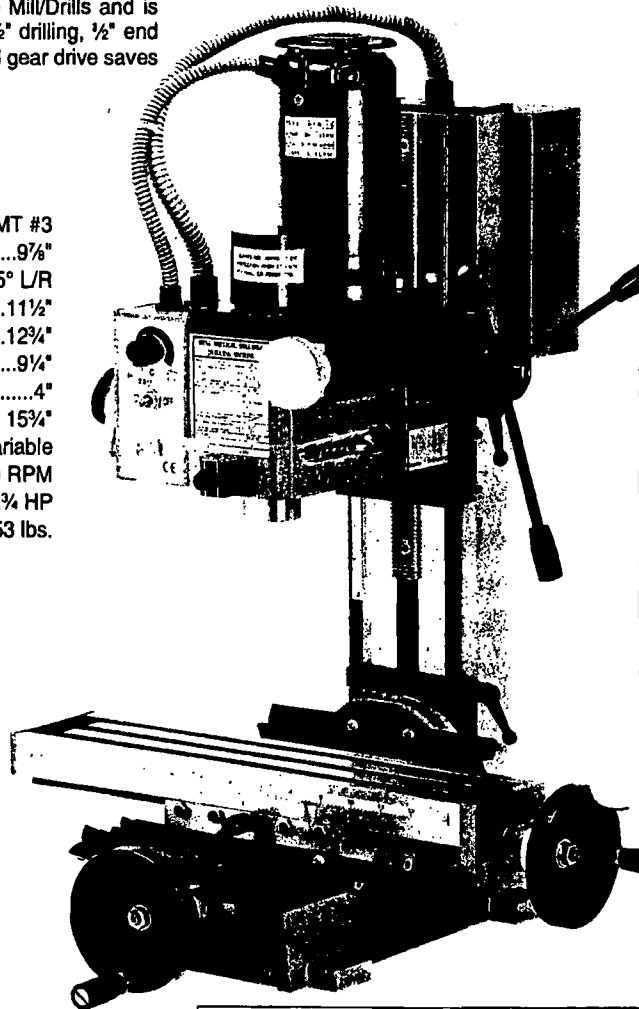
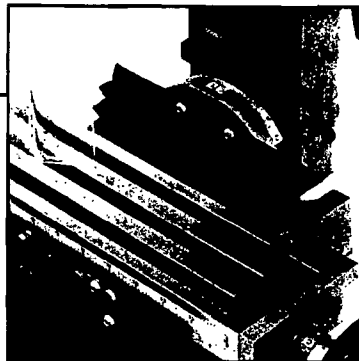
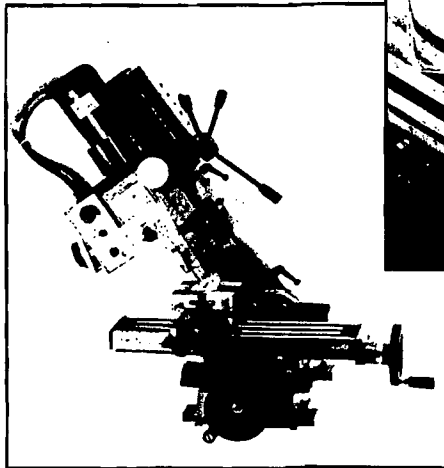
Now here is a mini milling machine that has more features than some Mill/Drills and is affordable for everyone! This little brute will handle any kind of job up to 1/2" drilling, 1/2" end mills and 1" facing. No belt changes necessary! The variable speed control and gear drive saves you time and hassle. Truly, a remarkable machine.

### FEATURES:

- Dovetail column
- Safety shut off switch
- Adjustable depth stop
- Fine feed head control
- Geared drive
- Clear guard on spindle
- Rubber chip guards on ways
- Zero setting dials
- Dials read inches and millimeters
- Adjustable dovetail ways on column
- Gas spring head return
- 3/8" and 1/2" collets
- 1/2" drill chuck
- 2 T-nuts

### SPECIFICATIONS:

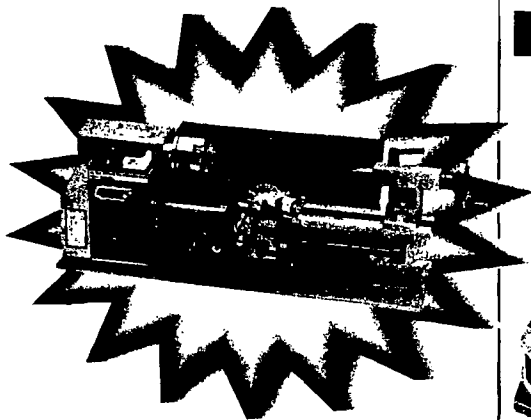
- Spindle Taper: .....MT #3
- Head Travel: .....9 7/8"
- Head Tilt: .....45° L/R
- Max. distance spindle to table: .....11 1/2"
- Swing: .....12 3/4"
- Longitudinal Travel: .....9 1/4"
- Cross-slide travel: .....4"
- Table size: .....3 5/8" x 15 1/2"
- Speeds: .....Variable
- Speed Range: .....0-2500 RPM
- Motor Size: .....3/4 HP
- Shipping Weight: .....153 lbs.



**\$48**  
ANYWHERE IN  
LOWER 48 STATES

Mini Milling Machine

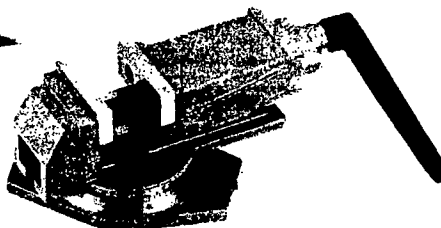
**MODEL G8689 ONLY \$495<sup>00</sup>**  
SHIP ANYWHERE WITHIN 48 STATES FOR **\$48<sup>00</sup>**



Mini Metal Lathe  
available on page 325

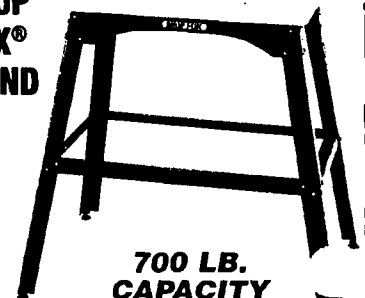
### OPTIONAL EQUIPMENT

#### 2 1/2" BABY MILLING VISE



G9002 2 1/2" Baby Milling Vise \$49.95

#### SHOP FOX® STAND



**700 LB.  
CAPACITY**

SPECIAL  
MODEL G7313 REG ~~\$54<sup>95</sup>~~ \$39<sup>95</sup>  
TWO OR MORE \$35<sup>00</sup> EACH



# MILLING MACHINES

## MILL/DRILL

**ISO 9002  
FACTORY!**

CALIBRATED  
DEPTH STOP

**WITH 1 HP  
MOTOR!**

FINE FEED  
CONTROL

LONGITUDINAL  
SLIDE STOPS

The Model G1005 Mill/Drill comes complete with 1/2" drill chuck, small angle drilling vise, and carbide-tipped fly cutter.

### FEATURES:

- Head swivels 360°
- Front-mounted ON-OFF switch with thermal overload protection
- Heavy-duty 1 HP motor
- Excellent speed range
- Extremely quiet machine
- Easy clutch-type mechanism for engaging fine down-feed
- Positive quill lock
- Adjustable gibs on table
- Adjustable stops on table
- Spindle supported by heavy-duty, tapered roller bearings
- Graduations in inches

### SPECIFICATIONS:

Spindle taper .....	R-8
Spindle travel .....	3 3/8"
Swing .....	16"
Max. distance spindle to table .....	15 1/4"
Column size .....	3 3/8"
Collars calibrated .....	.001"
T-Slots.....	Use 3/8" Studs
Table size.....	6 1/4" x 20 1/4"
Maximum table travel.....	12 1/2"
Cross-slide travel .....	6"
Drilling capacity .....	1"
Number of speeds .....	12
Range of speeds .....	110-2580 RPM
Motor size.....	1 HP
Approx. shipping weight .....	420 lbs.

**G5943  
Optional  
Stand**

For milling and drilling jobs  
that usually require a larger machine.  
Table size is 6 1/4" x 20 1/4"!

**\$68<sup>00</sup>**  
ANYWHERE IN  
LOWER 48 STATES

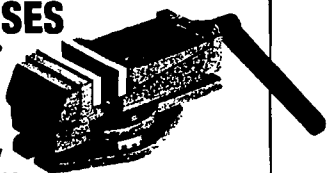
Mill/Drill  
**MODEL G1005**  
**\$975<sup>00</sup> ONLY \$895<sup>00</sup>**  
SHIP ANYWHERE WITHIN 48 STATES FOR \$68<sup>00</sup>

Optional Stand  
**MODEL G5943 ONLY \$189<sup>95</sup>**

## OPTIONAL EQUIPMENT

### SWIVEL BASE MILLING VISES

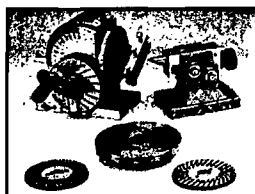
Vises feature 360° rotation with fine graduations, drop forged handle, precision ground jaw faces, enclosed acme screw and detachable swivel base.



MODEL	SIZE	OPENING	PRICE
G5971	3 1/2"	2 9/16"	\$69.95
G5972	4"	3 3/8"	\$79.95
G5973	5"	4 3/8"	\$89.95
G5974	6"	5 3/8"	\$139.95*
G5975	8"	6 5/16"	\$179.95**

\*SHIP ANYWHERE WITHIN 48 STATES FOR \$20<sup>00</sup>

### DIVIDING HEADS

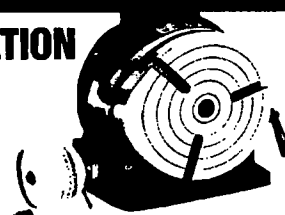


Complete with 3 dividing plates, 1 tailstock, 1 chuck back plate and 1 center-dog. Thread on nose 1 1/2" x 8 TPI. Ratio: 40:1.

MODEL	TYPE	TAPER	PRICE
G1053	BS-0	BS-7	\$269.00
G1054	BS-1	BS-9	\$379.00

\*\*SHIP ANYWHERE WITHIN 48 STATES FOR \$48<sup>00</sup>

### COMBINATION ROTARY TABLE



Use on milling machines for circular cutting, angle setting, boring and spot facing. Table surface and rotating parts are ground for smooth operation. Table is a solid Meehanite casting offering stability and assured accuracy. Ratio on all models is 90-to-1 or 4° per hand-wheel revolution.

MODEL	SIZE	CENTER HOLE	APPROX. WEIGHT	PRICE
G1049	6"	MT #2	25 lbs.	\$199.00

CALL 24 HOURS A DAY FROM ANYWHERE IN THE U.S.A. 1-800-523-4777

347

# MILLING MACHINES

This Mill/Drill has long been accepted in the market as a machine that can handle the work of machines costing thousands of dollars more. We go one step further and offer you two improved models – both with super-large tables and one with a variable speed power feed. The power feed is reversible with rapid traverse for fast return and has an automatic shut-off micro-switch. The table can also be used manually. Both models come standard with 3" carbide fly cutter, angle vise and 1/2" drill chuck.

## FEATURES:

- Exclusive fine down-feed is graduated in .001" and is engaged by clutch-type mechanism
- Heavy-duty, 12-speed tapered roller bearing spindle
- Powerful 2 HP, single phase, 110/220V motor
- Push Button Switch with Thermal Overload Protection
- Top quality workmanship throughout

**TABLE SLIDE RANGE: 6 3/4" x 21 1/2"!  
WOW!**

## SPECIFICATIONS:

Spindle taper .....	R-8
Spindle travel .....	5"
Swing .....	16"
Max. distance spindle nose to table.....	18"
Column size .....	4 1/2"
Collars calibrated .....	.001"
T-Slots.....	Use 1/2" Studs
Table size.....	9 1/2" x 32"
Max. table travel.....	24"
Cross-slide travel .....	6 1/8"
Drilling capacity .....	1 1/4"
Number of speeds.....	12
Range of speeds.....	150, 225, 255, 350, 400, 500, 850, 1200, 1500, 1600, 2300, 3000 RPM
Motor size.....	2 HP
Approx. shipping weight .....	670 lbs.

## MILL/DRILL

**ISO 9002  
FACTORY!**

**SUPER  
TABLE SIZE:  
9 1/2" x 32"!**

**CALIBRATED  
DEPTH STOP**

**FINE FEED  
CONTROL**

**G1007 shown  
with power feed**

**LONGITUDINAL  
SLIDE STOPS**

Mill/Drill  
**MODEL G1006**  
**\$1250<sup>00</sup> ONLY \$1195<sup>00</sup>**  
SHIP ANYWHERE WITHIN 48 STATES FOR \$115<sup>00</sup>

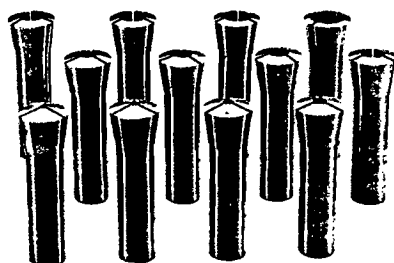
Mill/Drill with variable speed power feed  
**MODEL G1007 ONLY \$1495<sup>00</sup>**  
SHIP ANYWHERE WITHIN 48 STATES FOR \$115<sup>00</sup>

**\$115<sup>00</sup>**  
ANYWHERE IN  
LOWER 48 STATES

Optional Stand  
**MODEL G5944 ONLY \$189<sup>95</sup>**

## OPTIONAL EQUIPMENT

### 12-PC. R-8 COLLET SET



Made from the highest grade steel available for collet manufacture, these collets are precision ground to very close tolerances.

**MODEL G1646 ONLY \$69.95**

### COMBINATION ROTARY TABLES

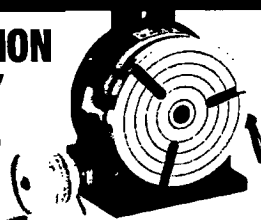
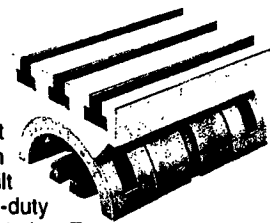


Table surface and rotating parts are ground for smooth operation. Table is a solid Meehanite casting offering stability and assured accuracy. Ratio on all models is 90-to-1 or 4° per hand-wheel revolution.

**G1050 8" MT #3 3 Slots \$349.00**  
**G1051 10" MT #3 6 Slots \$449.00\***

\*SHIP ANYWHERE WITHIN 48 STATES FOR \$20<sup>00</sup>

### TILT TABLES



Set your work at any angle with these sturdy tilt tables. Heavy-duty construction includes T-slots, two locking screws and precision that allows the table to tilt from -45° to +45°.

MODEL	SIZE	PRICE
G5758	5" x 7"	\$49.95
G5759	7" x 10"	\$89.95

**MILLING  
MACHINES**

## GEAR-HEAD MILL/DRILL

**COMPLETE  
WITH POWER  
FEED!**

INDUSTRIAL  
MOTOR

**SUPER  
TABLE SIZE:  
9½" x 32"**

SPEED  
CONTROL  
LEVERS

FORWARD/  
REVERSE  
SWITCH

FINE  
DOWN FEED

POWER  
FEED

**ISO 9002  
FACTORY!**

### FEATURES:

- Spindle speeds: 105, 300, 390, 515, 1400, 1820 RPM
- Head tilts up to 30° left and 90° right for angle drilling, milling, slotting and more
- Head swivels 360°
- Forward and reverse switch
- Metal alloy handwheels
- Calibrated fine downfeed
- Zero setting dials
- Heavy-duty cast iron construction
- Includes variable speed power-feed
- R-8 spindle
- Long, 5" spindle stroke
- Approx. shipping weight 715 lbs.

**\$115**  
ANYWHERE IN  
LOWER 48 STATES

Gear Head Mill/Drill

**MODEL G1126 ONLY \$2295<sup>00</sup>**

SHIP ANYWHERE WITHIN 48 STATES FOR \$115<sup>00</sup>

Optional Stand

**MODEL G5944 ONLY \$189<sup>95</sup>**

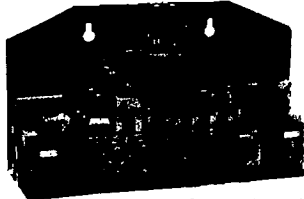
## OPTIONAL EQUIPMENT

### FLY CUTTERS



This 2½" Fly Cutter accepts 4 carbide inserts (not included). Comes with an R-8 Arbor.

MODEL	SIZE	PRICE
G2861	Fly Cutter	\$59.95
G4051	Carbide Inserts (each)	\$2.49
G2863	MT #3 Arbor	\$12.95
G1646	R-8 Collet Set of 12	\$69.95



**52 PIECE  
CLAMPING  
KIT**

Our clamping kits are among the best in the world! All the blocks, bolts, nuts and hold-downs are case hardened. Each kit includes: Metal rack, 24 studs, 6 step block pairs, 6 T-nuts, 6 flange nuts, 4 coupling nuts and 6 end hold-downs.

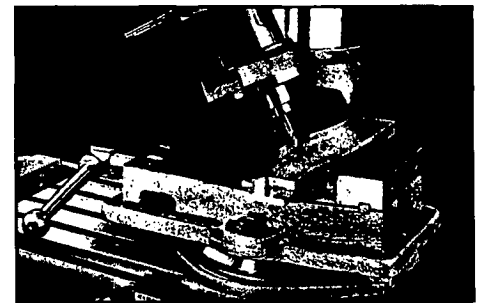
½" 52 Piece Clamping Kit for G1126

**MODEL G1076 ONLY \$39.95**

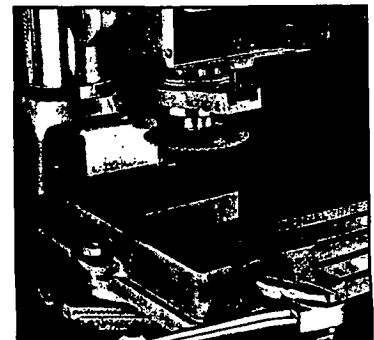
Heavy-duty cast iron construction and high quality manufacturing ensure precise milling, drilling and tapping. Gear-head enables you to change speeds quickly. Head tilts for angled or horizontal milling and drilling. Table rides on wide, precision dovetails and comes complete with power feed. You won't find a mill/drill as versatile and complete as this anywhere else at this price!

### SPECIFICATIONS:

Drilling Capacity .....	1"
Face Mill Capacity .....	3"
End Mill Capacity .....	¾"
Swing .....	21"
Max. dist., spindle to table .....	17"
Spindle taper .....	R-8
Spindle stroke .....	5"
Quill diameter .....	3"
Spindle speeds .....	60, 130, 230, 450, 800 and 1500 RPM
Head swivel .....	360°
Head tilt left and right .....	30° L, 90° R
Column diameter .....	4½"
Table size .....	9½" x 32"
Table longitudinal travel .....	24"
Table cross travel .....	9"
Overall height .....	56"
Length .....	33"
Width .....	52"
Motor .....	1½ HP, single phase, 110V/220V, 1720 RPM
Approx. shipping weight .....	715 lbs.



Angled Milling



Horizontal Slotting

**CALL 24 HOURS A DAY FROM ANYWHERE IN THE U.S.A. 1-800-523-4777**

**349**

# MILLING MACHINES

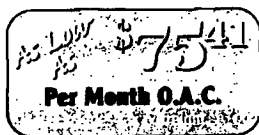
## SERIES 45 GEAR-HEAD MILL/DRILL



Our newest series 45 milling machine takes mill/drills to a whole new level! Dovetailed column allows operator to maintain accuracy when raising and lowering the head.

Heavy-duty cast iron construction as well as an ISO 9002 rated quality manufacturing process, make this mill/drill the best on the market today! Head tilts for angled or horizontal milling applications, gear-head enables quick speed changes, power spindle down-feed makes heavy drilling and tapping jobs a joy and the table rides on wide, precise dovetails. Table power feed is also included.

Milling, drilling & tapping are all preformed efficiently and precisely on this machine!

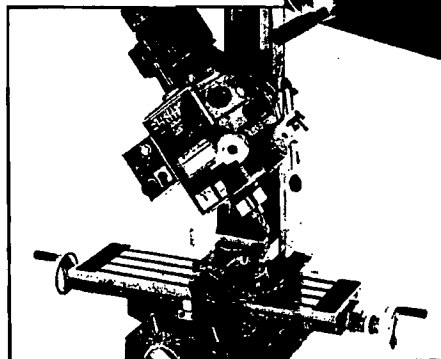
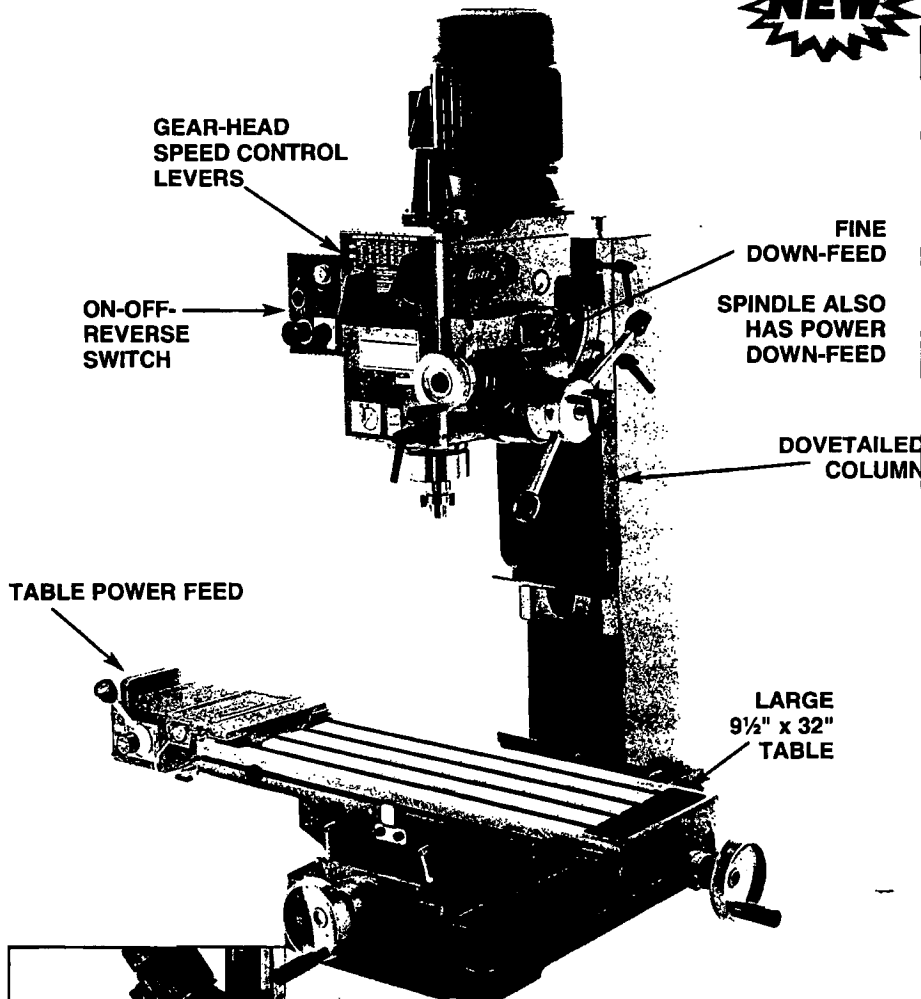


### FEATURES:

- Dovetailed column for accurate head alignment
- Spindle power down-feed and calibrated fine manual down-feed
- Geared spindle speed changes
- Long, 5" spindle down stroke
- Variable speed longitudinal table power feed
- Zero setting dials

### SPECIFICATIONS:

Drilling Capacity .....	1 1/4"
Face Mill Capacity .....	4"
End Mill Capacity .....	7/8"
Tapping Capacity .....	5/8"
Swing .....	20"
Max. dist., spindle to table .....	17"
Spindle taper .....	R-8
Spindle stroke .....	5"
Quill diameter .....	3"
Spindle speeds .....	60-1500 RPM
Head tilt left and right .....	30° L, 90° R
Table size .....	9 1/2" x 32"
Table longitudinal travel .....	24"
Table cross travel .....	9"
Overall height .....	56"
Length .....	33"
Width .....	52"
Motor .....	1 1/2 HP, single phase, 110V/220V, 1720 RPM
Approx. shipping weight .....	800 lbs.



Series 45 Gear-Head Mill/Drill  
**MODEL G9748 ONLY \$2795<sup>00</sup>**  
SHIP ANYWHERE WITHIN 48 STATES FOR \$150<sup>00</sup>

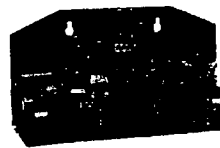
Optional Stand  
**MODEL G5944 ONLY \$189<sup>95</sup>**

#### MILLING VISES



SEE PAGE 362

#### CLAMPING KITS



SEE PAGE 362

#### R-8 COLLETS



SEE PAGE 393

#### END MILLS



SEE PAGES 398-399

#### ROTARY TABLES



SEE PAGE 388

#### ANGLE PLATES



SEE PAGE 391

**MILLING  
MACHINES**

## A1S-A TYPE VERTICAL MILLING MACHINES

*Two superb models-exactly alike,  
except one has a power-feed table.  
Take your pick,  
they both work equally well!*

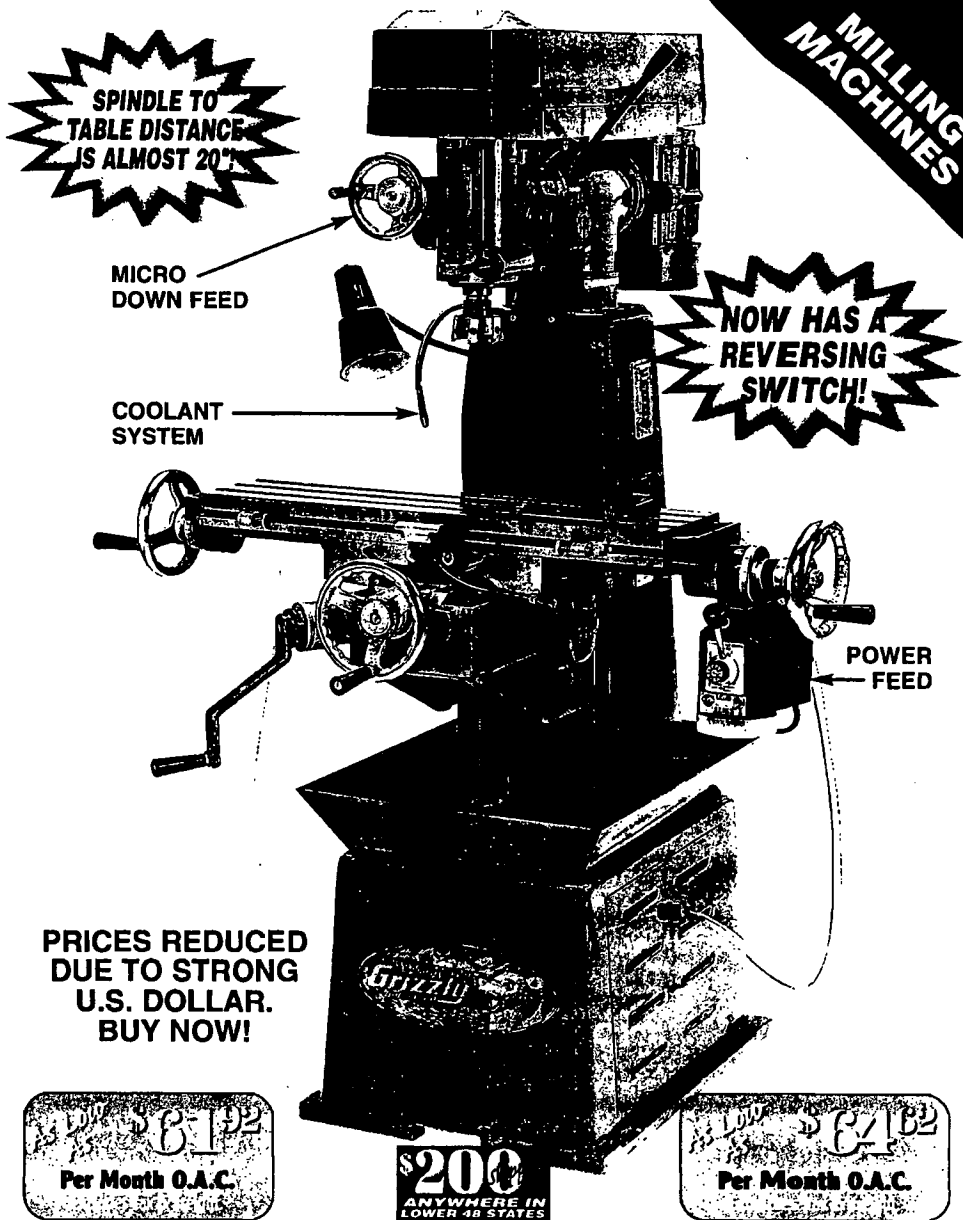
Known as the standard machine for the medium size metalworking shops, the A1S-A type milling machine is the next step up from conventional mill/drills and has proven to be extremely popular. The 16" knee travel means you won't have to relocate your part during tooling changes! The G1008 comes with a variable-speed, power-feed attachment.

### FEATURES:

- 1½ HP single phase motor
- Forward and reverse switch
- Centralized lubrication
- Variable-speed table power-feed with rapid traverse in both directions and auto shut-off (G1008)
- Fine-feed spindle movement
- Built-in chip tray
- Head swivels ± 45°
- Head tilts ± 90°
- Complete coolant system
- Spindle has 3 sets of heavy-duty ball bearings

### SPECIFICATIONS:

Spindle taper .....	R-8
Spindle travel .....	3½"
Table size .....	8" x 30"
Table travel .....	7½" x 19½"
Head tilts .....	90° left and 90° right
Max. dist. spindle to table .....	19¾"
Swing (Spindle to column x 2) .....	15"
Knee travel .....	16"
Number of speeds .....	9
Range of speeds (RPM) .....	270-3200
Machine height .....	66¼"
Base dimension .....	20¼" x 27¾"
Motor size .....	1½ HP
Approx. shipping weight .....	1010 lbs.



**PRICES REDUCED  
DUE TO STRONG  
U.S. DOLLAR.  
BUY NOW!**

**\$8192**  
Per Month O.A.C.

**\$200**  
ANYWHERE IN  
LOWER 48 STATES

**\$84182**  
Per Month O.A.C.

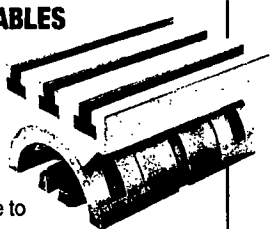
A1S-A Type Vertical Milling Machine  
**MODEL G1004**  
**ONLY \$2295<sup>00</sup>**  
SHIP ANYWHERE WITHIN 48 STATES FOR \$200<sup>00</sup>

With variable-speed table power-feed  
**MODEL G1008**  
**\$2550<sup>00</sup> ONLY \$2395<sup>00</sup>**  
SHIP ANYWHERE WITHIN 48 STATES FOR \$200<sup>00</sup>

## OPTIONAL EQUIPMENT

### TILT TABLES

Set your work at any angle with these sturdy tilt tables. Heavy-duty construction includes T-slots, two locking screws and precision base that allows the table to tilt from -45° to +45°.



MODEL	SIZE	PRICE
G5758	5" x 7"	\$49.95
G5759	7" x 10"	\$89.95

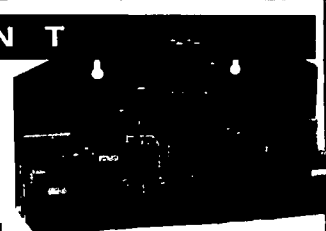
### 12-PC. R-8 COLLET SET



Made from the highest grade steel available for collet manufacture, these collets are precision ground to very close tolerances.

**MODEL G1646 ONLY \$69.95**

### 52-PIECE CLAMPING KIT



Our clamping kits are among the best in the world! All the blocks, bolts, nuts and hold-downs are case hardened. Each kit includes: Metal rack, 24 studs, 6 step block pairs, 6 T-nuts, 6 flange nuts, 4 coupling nuts and 6 end hold-downs

¾" 52-Piece Clamping Kit for G1004 & G1008  
**MODEL G1075 ONLY \$39.95**

# MILLING MACHINES

## MILLING MACHINE W/ POWER FEED

This Milling Machine with Power Feed has all the features found on large, industrial quality mills, but sized and priced for the serious home shop. With features like tilting head, longitudinal power feed and massive cast iron construction, this is one sweet deal!

**"This is a great machine  
at an unbeatable price!"**

**S. Balolia, President**

**MADE IN  
USA**

**MOTOR  
MADE IN U.S.A.**

**DOWN \$757.11  
Per Month O.A.C.**

### FEATURES:

- Adjustable micrometer quill depth stop
- Multiple saddle, knee, table and ram locks for high rigidity
- R-8 spindle
- 5.4" of spindle travel
- Five spindle speeds
- Comes with longitudinal power feed
- Auto stop with micro-adjustable setting
- 1½ HP, single phase, 110V/220V, reversible TEFC 1725 RPM motor

### SPECIFICATIONS:

Spindle taper .....	R-8
Spindle travel .....	5.4"
Table size .....	7½" x 35¾"
Table travel (longitudinal) .....	20½"
Table travel (cross) .....	9½"
Table travel (vertical) .....	13¾"
Max. dist. spindle to column .....	15½"
Max. dist. spindle to table .....	13¾"
Knee travel .....	13¾"
Head travel .....	10¼"
Head tilt .....	90° left and right
Turret or column swivel .....	360°
T-slots .....	3 on 2½" centers, ½" stud
Number of speeds .....	5
Range of speeds .....	255, 425, 685, 1115 and 1800 RPM
Motor .....	TEFC capacitor start induction
Horsepower .....	1½
Phase .....	single phase
RPM .....	1725
Power Transfer .....	V-belts
Bearings .....	shielded and lubricated-for-life
Overall Height .....	75"
Shipping weight approx. ....	1650 lbs.

### STANDARD ACCESSORIES:

- Way chip protectors
- Drawbar
- Tool box
- Electric control box & panel
- Power table feed for X axis

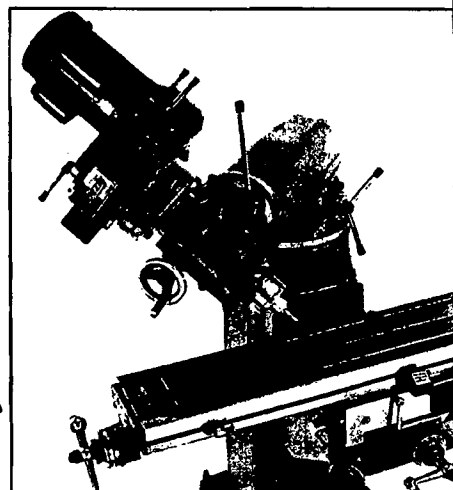
Milling Machine w/power feed

**MODEL G6760**

**ONLY \$2995<sup>00</sup>**

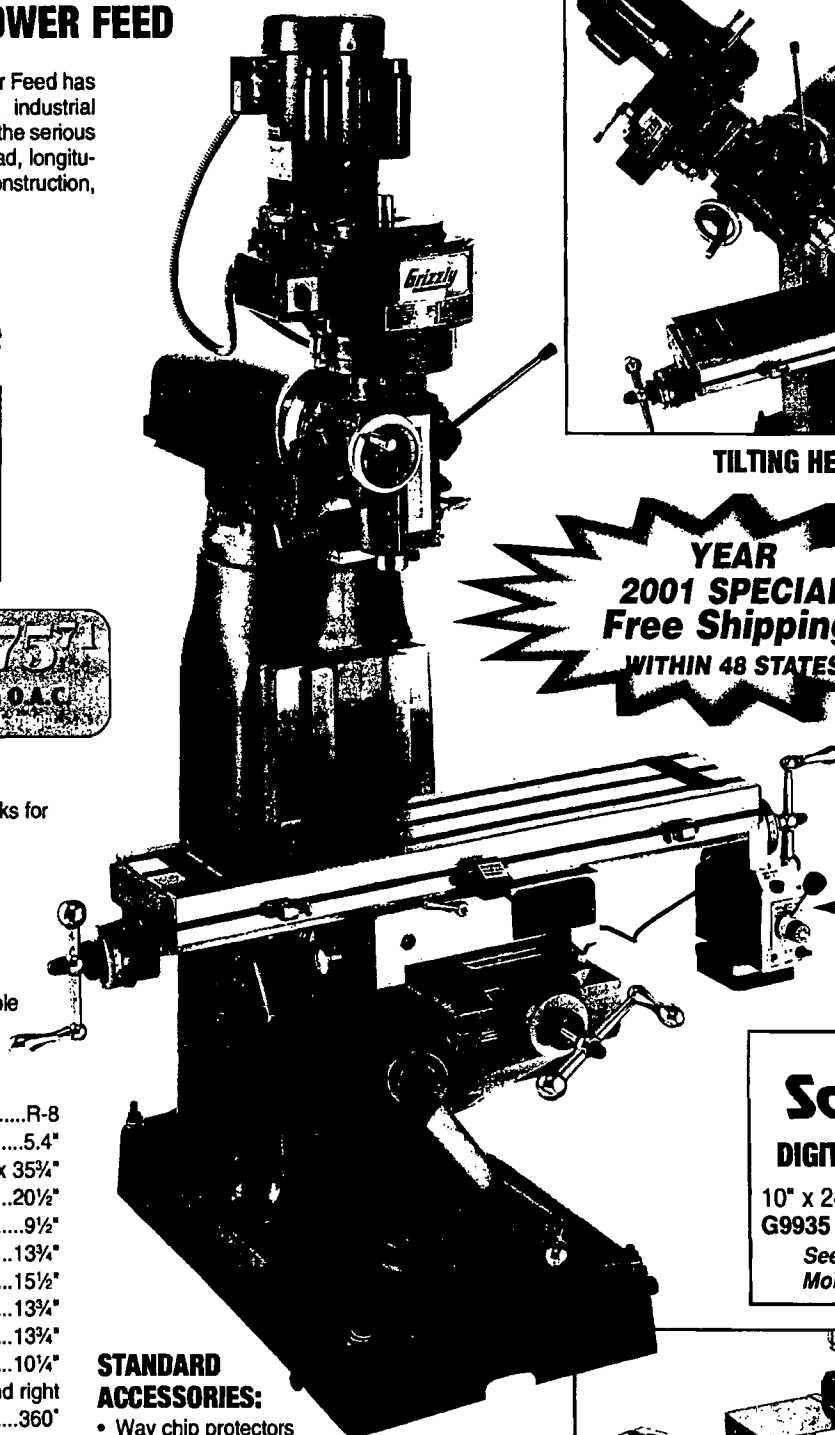
**FREE SHIPPING!**

WITHIN 48 STATES



**TILTING HEAD**

**YEAR  
2001 SPECIAL  
Free Shipping!  
WITHIN 48 STATES**

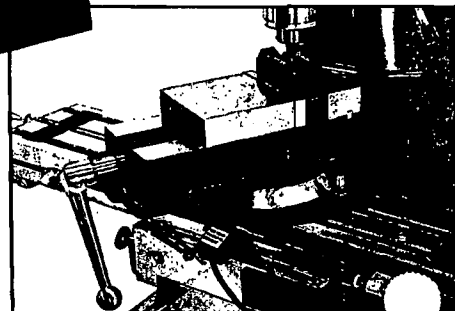


**POWER  
FEED**

**BUY  
Sargon.  
DIGITAL READOUT**

10" x 24", 2 Axis  
G9935 \$965.00

See Page 361 for  
More Information



**5" Milling Vice**

**MODEL G7154 ONLY \$129<sup>95</sup>**

**MILLING  
MACHINES**



# WOOD MILL™ - CAN BE USED FOR WOODWORKING & METALWORKING

A major breakthrough for woodworkers!

Being heavily involved in both woodworking and metalworking machinery for over 25 years, I have always had the luxury of having access to my machine shop for doing woodworking projects. The thing that I noticed was the amount of time I spent using my milling machine for slotting, circular cutting, dovetailing or profiling wood pieces that would normally have been very difficult or dangerous to accomplish using normal woodworking machines.

Think about it; almost every woodworking project requires the operator to feed the wood by hand and almost every metalworking project requires the workpiece to be clamped down. How many times have you wished your fingers were farther away from the cutterhead or blade when working on wood? This Mill allows you to control the cut, shape or bore the wood much more safely than if you were using traditional machines.

Wood projects are typically larger than metal projects so this mill had to have a table that would be capable of handling larger wood parts. It also had to have a faster spindle speed to accommodate quick material removal for woodworking and have a variable head ram that could swing out, slide in and out, tilt, etc... and still be able to be used for metalworking. In our tests, everyone that used it was amazed by it. In fact, several people commented "why didn't someone think of this sooner?" If you are a serious woodworker who performs precision and complex work, you will absolutely love this machine!

## SPECIFICATIONS:

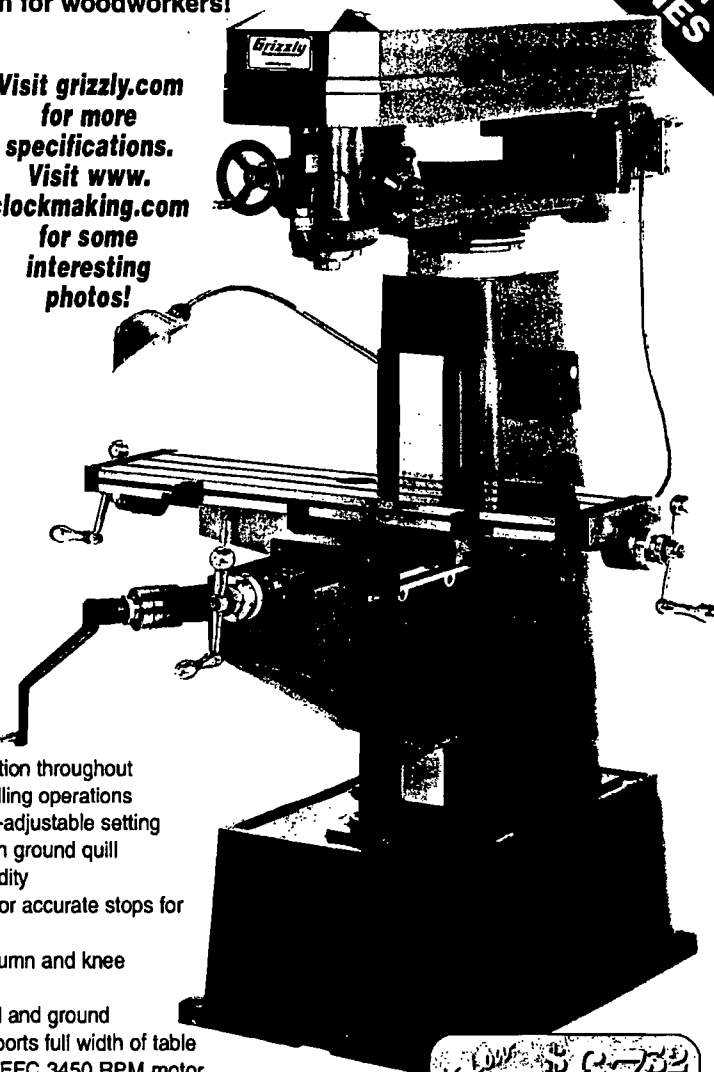
Spindle taper .....	R-8
Spindle travel .....	3½"
Table size .....	10" x 34"
Table width end to end (tip of handwheel to tip of handwheel) .....	50"
Table travel (longitudinal) .....	18½"
Table travel (cross) .....	10¾"
Max. dist. spindle to table .....	19"
Max. dist. spindle to column .....	18½"
Knee travel .....	17"
Machine depth (back of motor to tip of front handwheel) .....	55"
Head tilt .....	90° both ways
Head swivel .....	360°
T-slots .....	3 on 2½" centers, ½" studs
Range of 9 speeds: .....	440-5000 RPM
Motor .....	1½ HP, Single Phase
Shipping weight approx. ....	1350 lbs.

S. Balolia, President

## FEATURES:

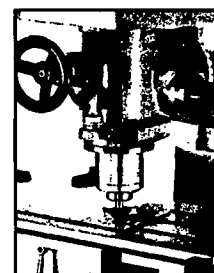
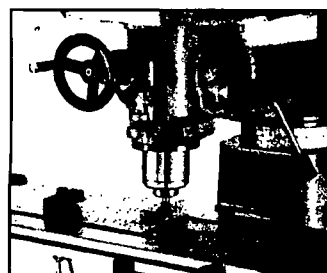
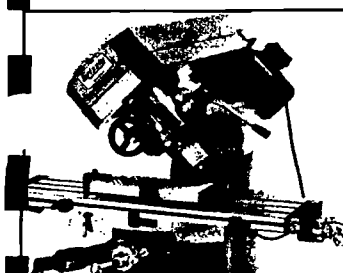
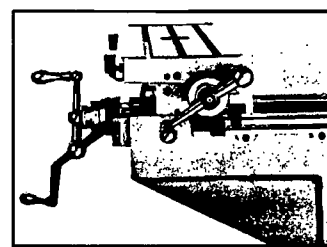
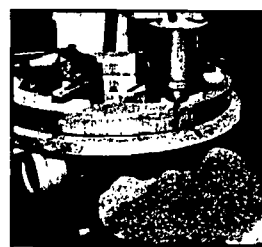
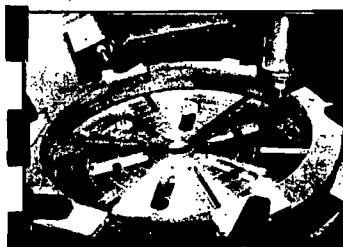
- Solid cast iron construction throughout
- 2½" hole in table for drilling operations
- Spindle stop with micro-adjustable setting
- Chrome plated precision ground quill
- Table locks for high rigidity
- Adjustable table stops for accurate stops for cuts and repeatability
- Hardened & ground column and knee slideways
- Table surface hardened and ground
- Heavy-duty saddle supports full width of table
- 1½ HP, single phase, TEFC 3450 RPM motor, 115/230V, 28/14 amps
- Includes: way chip protectors and drawbar

Visit [grizzly.com](http://grizzly.com) for more specifications.  
Visit [www.clockmaking.com](http://www.clockmaking.com) for some interesting photos!



**\$200**  
ANYWHERE IN  
LOWER 48 STATES

**\$67.32**  
Per Month O.A.C.



**AVAILABLE MARCH, 2001**  
Wood Mill™  
**MODEL G9959**  
**PRESIDENT'S INTRODUCTORY PRICE**  
**\$1,895<sup>00</sup>**  
Wood Mill™ with Power Feed for Table  
**MODEL G9977 \$2,195<sup>00</sup>**  
SHIP ANYWHERE WITHIN 48 STATES FOR \$200<sup>00</sup>

CALL 24 HOURS A DAY FROM ANYWHERE IN THE U.S.A. 1-800-523-4777

353

# MILLING MACHINES

## 9" x 42" VERTICAL MILL WITH POWER FEED



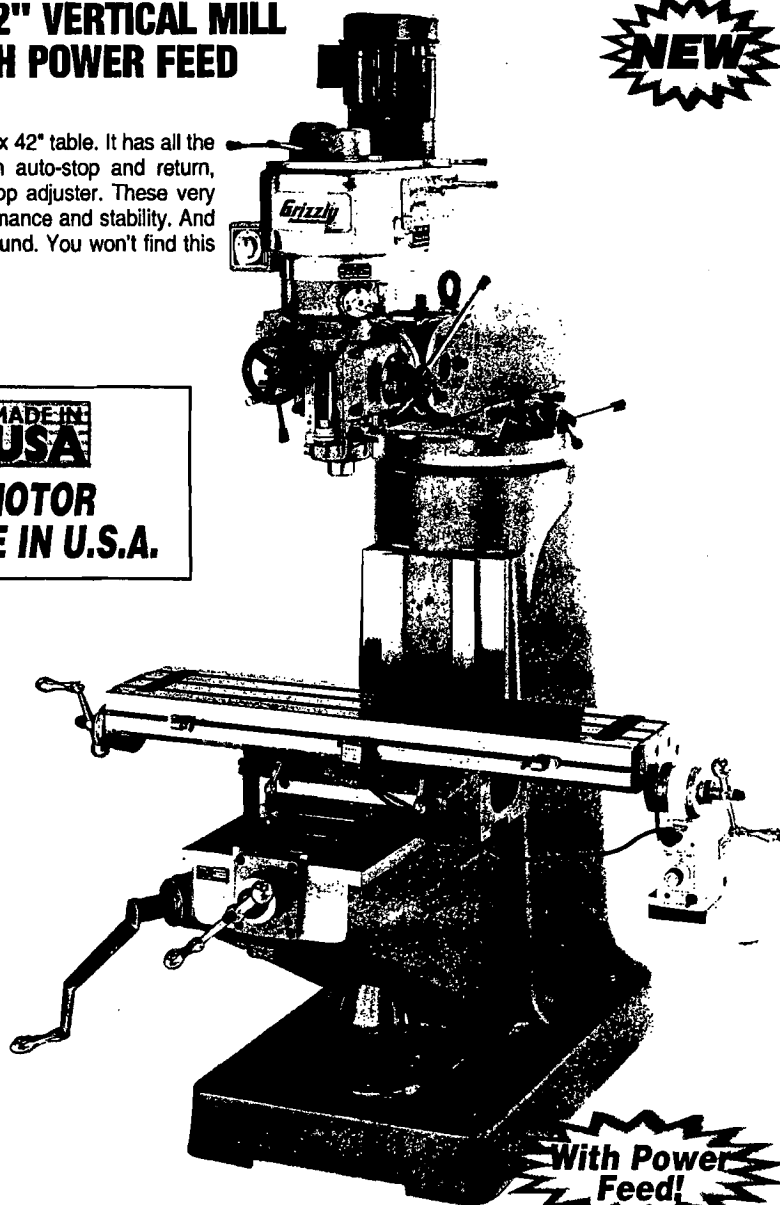
This is our most economical turret type knee mill with a 9" x 42" table. It has all the features that larger mills have like power down feed with auto-stop and return, longitudinal power feed and a 5" quill travel with calibrated stop adjuster. These very heavy castings and large slide surfaces will give incredible performance and stability. And with the turret type head, it's capacities are quite large. Shop around. You won't find this kind of value in a mill of this type and size.

### FEATURES:

- One-shot Pump Lubrication
- Power Down Feed
- Quill Feeds / Spindle Rev.: .0019", .0035", .0058"
- Auto Stop w / Micro Adjustable Stop
- R-8 Spindle
- Longitudinal Power Feed
- Hardened & Ground Table Surface
- Chrome Plated, Precision Ground Quill
- Adjustable Micrometer Quill Depth Stop

### SPECIFICATIONS:

Spindle travel .....5"  
 Table size .....9" x 42"  
 Table travel (longitudinal).....25 1/8"  
 Table travel (cross) .....12 1/2"  
 Max. dist. spindle to table .....18 1/4"  
 Max. dist. spindle to column .....17 1/2"  
 Knee travel.....16"  
 Head tilt.....45° both ways  
 Head swivel .....90° both ways  
 T-slots .....3 on 2 1/2" centers, 1/2" studs  
 Range of speeds (RPM): 78, 98, 197, 278, 670, 850, 1700 and 2000  
 Motor.....2 HP, Single Phase  
 Shipping weight approx. ....2100 lbs.



**With Power Feed!**

**\$885**  
Per Month O.A.C.

**\$300**  
ANYWHERE IN  
LOWER 48 STATES

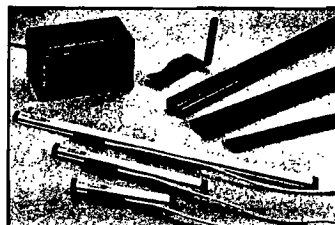
**MODEL G9901**  
**ONLY \$3,495<sup>00</sup>**

SHIP ANYWHERE WITHIN 48 STATES FOR \$300<sup>00</sup>

## OPTIONAL EQUIPMENT

### Sargon. DIGITAL READ-OUTS

Strong construction and intelligent design have earned Sargon™ Digital Read-outs recognition and respect throughout the metalworking industry.



#### FEATURES:

- Machine error compensation
- Absolute/incremental
- Inch and mm conversion
- Fine/coarse display modes
- All packages include display, scales and mounting hardware



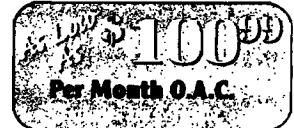
MODEL	TABLE TRAVEL	QUILL TRAVEL	TYPE	PRICE
G9936	12" x 30"	N/A	2 Axis	\$975.00
G9940	12" x 30"	5"	3 Axis	\$1095.00



**MILLING  
MACHINES**

## VERTICAL MILL MODEL G4027 (2 HP, 1 PH., 9" x 42" TABLE)

Our most affordable production milling machine has many of the same features that are included with more expensive machines. This top-selling machine features a three speed power down feed, 3.35" quill with 5" throw, turret head, power feed x-axis and massive castings for optimum stability and accuracy.



### FEATURES:

- R-8 spindle
- Auto down feed
- Meehanite cast iron
- Centralized lubrication system
- Power down feed
- Auto stop with micro-adjustable setting
- Chrome plated precision ground quill
- Adjustable micrometer quill depth stop
- Multiple saddle, knee, table and ram locks for high rigidity
- Table & cross feed lead screw has double nuts to minimize backlash
- Hardened & ground column and knee slideways
- Table surface hardened and ground
- Heavy-duty saddle supports full width of table
- 2 HP, single phase, TEFC 1725 RPM motor, 115/230V, 28/14 amps
- Comes with longitudinal power feed
- Includes: way chip protectors, drawbar and tool box

### SPECIFICATIONS:

Spindle taper ..... R-8  
 Spindle travel ..... 5"  
 Table size ..... 9" x 42"  
 Table travel (longitudinal) ..... 26"  
 Table travel (cross) ..... 12½"  
 Max. dist. spindle to table ..... 17½"  
 Max. dist. spindle to column ..... 19½"  
 Knee travel ..... 16"  
 Head tilt ..... 45° both ways  
 Head swivel ..... 90° both ways  
 Quill feeds / spindle rev.: ..... .0015", .003", .006"  
 T-slots ..... 3 on 2½" centers, ½" studs  
 Range of speeds (RPM): ..... 80, 135, 210, 325, 660, 1100, 1750 and 2720  
 Motor ..... 2 HP, Single Phase  
 Shipping weight approx. .... 2020 lbs.

**Price reduction due  
to strong U.S. Dollar.  
BUY NOW!**

**\$300**  
ANYWHERE IN  
LOWER 48 STATES

Vertical Mill

MODEL G4027 ONLY ~~\$4395<sup>00</sup>~~

**ONLY \$3995<sup>00</sup>**

SHIP ANYWHERE WITHIN 48 STATES FOR \$300<sup>00</sup>

MEEHANITE  
CASTINGS  
THROUGHOUT

**With Power  
Feed!**

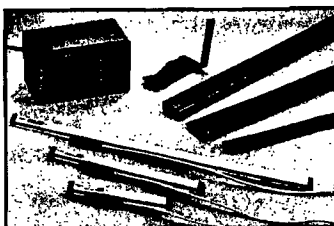
In April 2000, we purchased a G4027 Vertical Knee Mill from your Springfield facility. We have been using this machine in diversified repair work. This mill is proving to be an excellent machine with outstanding repeatability. We have found it to be very cost-effective, as most repair operations require tight budgets. Many thanks for thinking of independent working people with your line of equipment."

Ben Chadd  
Bainbridge, IN

## OPTIONAL EQUIPMENT

### Sargon. DIGITAL READ-OUTS

Strong construction and intelligent design have earned Sargon™ Digital Read-outs recognition and respect throughout the metalworking industry.



#### FEATURES:

- Machine error compensation
- Absolute/incremental
- Inch and mm conversion
- Fine/coarse display modes
- All packages include display, scales and mounting hardware



MODEL	TABLE TRAVEL	QUILL TRAVEL	TYPE	PRICE
G9936	12" x 30"	N/A	2 Axis	\$975.00
G9940	12" x 30"	5"	3 Axis	\$1095.00

CALL 24 HOURS A DAY FROM ANYWHERE IN THE U.S.A. 1-800-523-4777

355

## 9" x 49" VERTICAL MILL WITH POWER FEED

Need a little more table space? Try one of our 9" x 49" turret type knee mills. They have all the same great features as their little brother but they have the added table length necessary for those longer parts. These mills are an exceptional value and are offered in a 8 speed drive or variable speed. And of course with 2 HP, large slide surfaces and heavy castings, these milling machines will perform with amazir ity through some of the toughest jobs.

### FEATURES:

- One-shot Pump Lubrication
- Auto Down Feed
- Quill Feeds/ Spindle Rev.: .0019", .0035", .0058"
- Auto Stop w/ Micro Adjustable Stop
- R-8 Spindle

- Longitudinal Power Feed
- Hardened & Ground Table Surface
- Chrome Plated, Precision Ground Quill
- Adjustable Micrometer Quill Depth Stop



### BELT DRIVE HEAD

#### SPECIFICATIONS:

Spindle travel .....5"  
Table size .....9" x 49"  
Table travel (longitudinal).....31½"  
Table travel (cross) .....12½"  
Max. dist. spindle to table .....18¼"  
Max. dist. spindle to column .....19½"  
Knee travel.....16"  
Head tilt.....45° both ways  
Head swivel .....90° both ways  
T-slots .....3 on 2½" centers, ½" studs  
Speeds .....8  
Range of speeds (RPM): 78, 98, 197, 270, 670, 850, 1700 and 2400  
Motor.....2 H.P. TEFC Capacitor Start Induction  
Voltage.....115V/230V, prewired to 230V  
Shipping weight approx. ....2150 lbs.

**MODEL G9902  
WITH SINGLE PHASE  
U.S. MADE MOTOR  
ONLY \$3,650<sup>00</sup>**

SHIP ANYWHERE WITHIN 48 STATES FOR \$300<sup>00</sup>

### VARIABLE SPEED HEAD

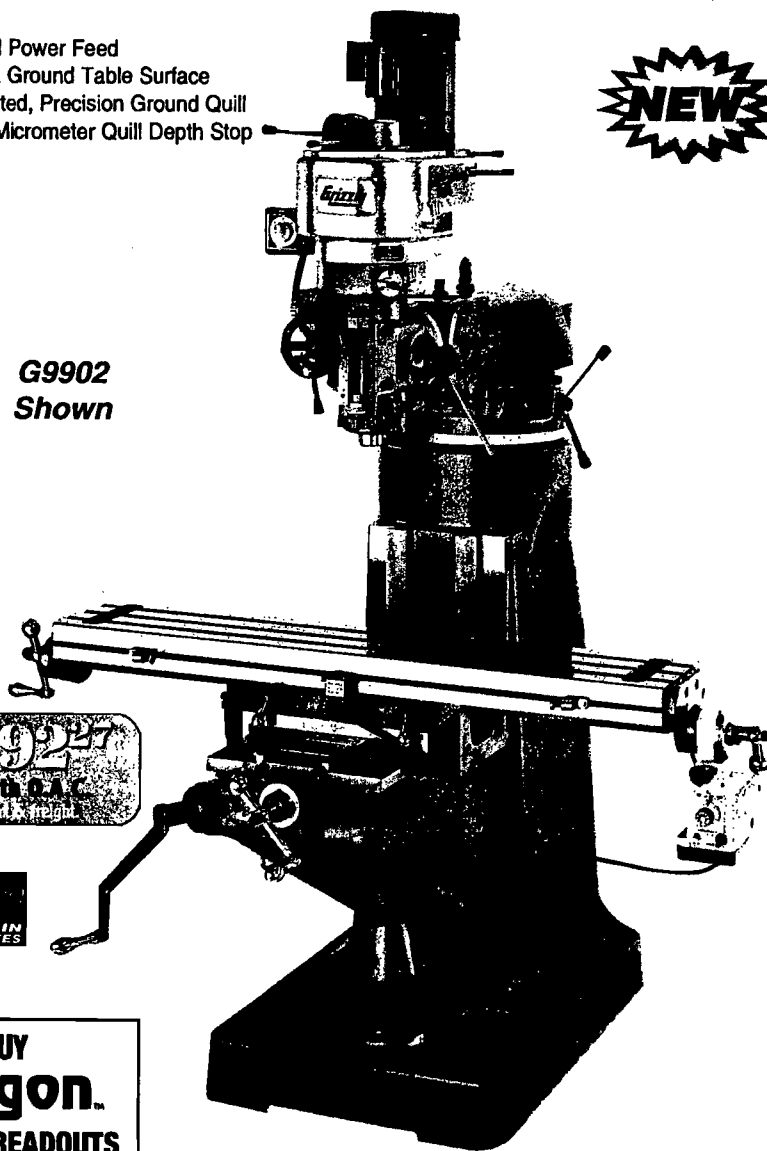
#### SPECIFICATIONS:

Spindle travel .....5"  
Table size .....9" x 49"  
Table travel (longitudinal).....31½"  
Table travel (cross) .....12½"  
Max. dist. spindle to table .....18¼"  
Max. dist. spindle to column .....19½"  
Knee travel.....16"  
Head tilt.....45° both ways  
Head swivel .....90° both ways  
T-slots .....3 on 2½" centers, ½" studs  
Speeds .....Variable  
Range of speeds (RPM): .....70-4200  
Motor.....3 Phase, 2 H.P. TEFC Induction  
Voltage.....220V  
Shipping weight approx. ....2200 lbs.

**3 Phase Variable Speed  
MODEL G9903  
ONLY \$4,295<sup>00</sup>**

SHIP ANYWHERE WITHIN 48 STATES FOR \$300<sup>00</sup>

**G9902  
Shown**



**\$9227<sup>00</sup>**  
Per Month O.A.C.

**\$300<sup>00</sup>**  
ANYWHERE IN  
LOWER 48 STATES

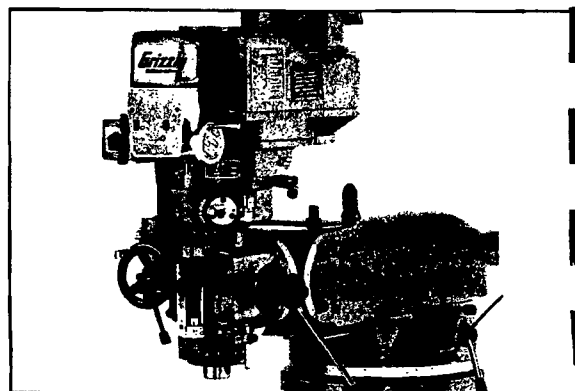
**BUY  
Sargon<sup>™</sup>  
DIGITAL READOUTS**

12" x 30", 2 Axis  
G9936 \$975.00  
5" x 12" x 30", 3 Axis  
G9940 \$1095.00

See Page 361 for  
More Information

**\$300<sup>00</sup>**  
ANYWHERE IN  
LOWER 48 STATES

**\$10858<sup>00</sup>**  
Per Month O.A.C.



**MODEL G9903 HEAD**

# 10" x 54" VERTICAL MILL WITH POWER FEED

MILLING  
MACHINES

These are the largest capacity milling machines we have. With an incredible 10" x 54" table, huge table travel and 3 HP 3 phase motors, just about any job can be done. And these castings are massive! Made to exacting specifications, these milling machines will give repeatable results in close tolerance work. Choose the G9905 variable speed milling machine and get on-the-fly speed changes. Or save a little money and get a large speed range of the G9904 with easy to adjust V-belts. Both machines will give excellent results and years of reliable performance. Please, check out the features and specifications below. It will be impossible to find a comparable value.

## SPECIFICATIONS:

Spindle travel .....5"  
Table size .....10" x 54"  
Table travel (longitudinal).....33 3/4"  
Table travel (cross) .....15 1/2"  
Max. dist. spindle to column .....24 1/2"  
Max. dist. spindle to table .....17"  
Knee travel .....16 3/4"  
Head tilt.....45° both ways  
Head swivel .....90° both ways  
T-slots .....3 on 2 1/2" centers, 1/2" stud  
Variable speed range.....78 - 4800 RPM  
Motor size.....3 HP, 3 phase  
Voltage:.....220V  
RPM .....1725/3430  
Power Transfer .....V-belt  
G9904 Shipping weight approx. ....2600 lbs.  
G9905 Shipping weight approx. ....2700 lbs.

## FEATURES:

- One-shot Pump Lubrication
- Auto Down Feed
- Quill Feeds / Spindle Rev.: .0019", .0035", .0058"
- Auto Stop w / Micro Adjustable Stop
- R-8 Spindle
- Longitudinal Power Feed
- Hardened & Ground Table Surface
- Chrome Plated, Precision Ground Quill
- Adjustable Micrometer Quill Depth Stop

Belt Drive Head  
MODEL G9904

ONLY \$4,495<sup>00</sup>

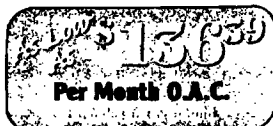
SHIP ANYWHERE WITHIN 48 STATES FOR \$300<sup>00</sup>



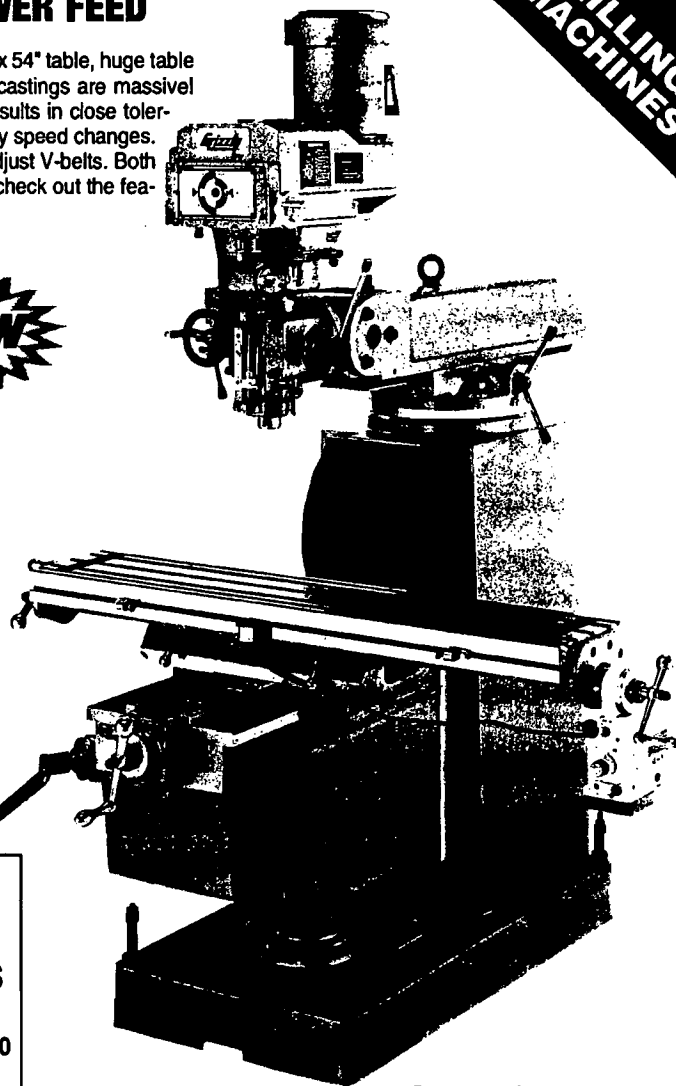
Variable Speed  
MODEL G9905

ONLY \$5,395<sup>00</sup>

SHIP ANYWHERE WITHIN 48 STATES FOR \$300<sup>00</sup>



**NEW**



G9905 Shown

## BUY Sargon. DIGITAL READOUTS

16" x 36", 2 Axis

G9937 \$995.00

5" x 16" x 36", 3 Axis

G9941 \$1195.00

See Page 361 for  
More Information

## OPTIONAL EQUIPMENT

### SWIVEL BASE MILLING VISES

Vises feature 360° rotation with fine graduations, drop forged handle, precision ground jaw faces, enclosed acme screw and detachable swivel base.

MODEL	SIZE	OPENING	PRICE
G5971	3 1/2"	2 9/16"	\$69.95
G5972	4"	3 3/8"	\$79.95
G5973	5"	4 3/8"	\$89.95
G5974	6"	5 3/8"	\$139.95 *
G5975	8"	6 5/16"	\$179.95 **

\*SHIP ANYWHERE WITHIN 48 STATES FOR \$20<sup>00</sup>

### COMBINATION ROTARY TABLES

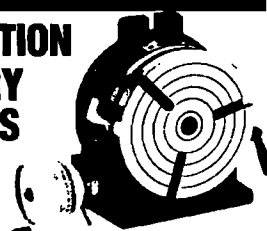


Table surface and rotating parts are ground for smooth operation. Table is a solid Meehanite casting offering stability and assured accuracy. Ratio on all models is 90-to-1 or 4° per hand-wheel revolution.

G1049	6"	MT #2	3 Slots	\$199.00
G1050	8"	MT #3	3 Slots	\$349.00
G1051	10"	MT #3	6 Slots	\$449.00*

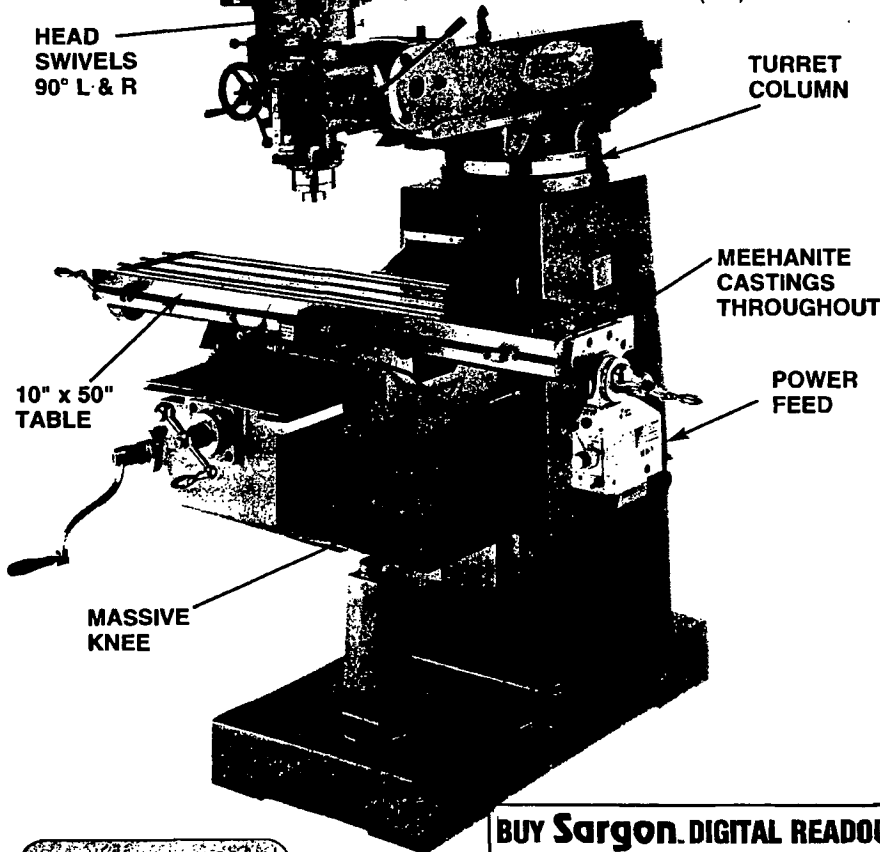
\*\*SHIP ANYWHERE WITHIN 48 STATES FOR \$48<sup>00</sup>

**MILLING  
MACHINES**

## TURRET HEAD MILLING MACHINE (3 HP, 3 PH., 10" x 50" TABLE)



This Turret Ram Head Mill is ready to work in the production shop. We've added extras including power down feed, one shot pump lubrication, extra large work table, wide range of speeds, high precision spindle bearings and hand scraped ways. Read or call 1 (570) 546-9663 for more information.



### FEATURES:

- Centralized lubrication system
- Power down feed
- Auto stop with micro-adjustable setting
- R-8 spindle
- Meehanite cast iron construction
- Chrome plated precision ground quill
- Adjustable micrometer quill depth stop
- Multiple saddle, knee, table and ram locks for high rigidity
- Table & cross feed lead screws have double nuts to minimize backlash
- Hardened & ground column and knee slideways
- Hardened and ground table surface
- Heavy-duty saddle support full width of table
- 3 HP, 3 phase, TEFC 1720 RPM motor
- Comes with longitudinal power feed
- Includes: way chip protectors, drawbar and tool box

### SPECIFICATIONS:

Spindle taper	R-8
Spindle travel	5"
Table size	10" x 50"
Table travel (longitudinal)	31 1/2"
Table travel (cross)	15"
Table travel (vertical)	16 3/4"
Max. dist. spindle to column	27"
Max. dist. spindle to table	17 3/4"
Knee travel	16 3/4"
Head tilt	45° forward and back
Head swivel	90° left and right
T-slots	3 on 2 1/2" centers, 1/2" stud
Number of speeds	16
Range of speeds (RPM)	80, 135, 210, 325, 660, 1100, 1750, 2720, - 160, 270, 420, 650, 1320, 2220, 3500 and 5440*
Motor	TEFC
Horsepower	3
Phase	3 phase
RPM	3450/1720
Power Transfer	V-belts
Bearings	shielded and lubricated-for-life
Shipping weight approx.	2540 lbs

**\$1389**  
Per Month O.A.C.

### BUY Sargon. DIGITAL READOUTS

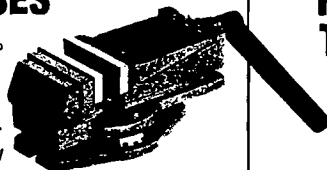
G9937	16" x 36", 2 Axis	\$995.00
G9941	5" x 16" x 36", 3 Axis	\$1195.00

See Page 361 for More Information

### OPTIONAL EQUIPMENT

#### SWIVEL BASE MILLING VISES

Vises feature 360° rotation with fine gradations, drop forged handle, precision ground jaw faces, enclosed acme screw and detachable swivel base.



MODEL	SIZE	OPENING	PRICE
G5971	3 1/2"	2 1/16"	\$69.95
G5972	4"	3 3/8"	\$79.95
G5973	5"	4 3/8"	\$89.95
G5974	6"	5 3/8"	\$139.95 *
G5975	8"	6 1/16"	\$179.95 **

\*SHIP ANYWHERE WITHIN 48 STATES FOR \$20<sup>00</sup>

#### COMBINATION ROTARY TABLES

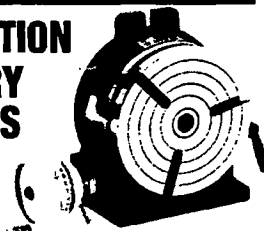


Table surface and rotating parts are ground for smooth operation. Table is a solid Meehanite casting offering stability and assured accuracy. Ratio on all models is 90-to-1 or 4° per hand-wheel revolution.

G1049	6"	MT #2	3 Slots	\$199.00
G1050	8"	MT #3	3 Slots	\$349.00
G1051	10"	MT #3	6 Slots	\$449.00*

\*\*SHIP ANYWHERE WITHIN 48 STATES FOR \$48<sup>00</sup>

Price reduction due  
to strong U.S. Dollar.  
**BUY NOW!**

**\$300**  
ANYWHERE IN  
LOWER 48 STATES

Vertical Mill

MODEL G4028 ONLY \$589<sup>5</sup>

**ONLY \$5495<sup>00</sup>**

SHIP ANYWHERE WITHIN 48 STATES FOR \$300<sup>00</sup>

FOR PHASE CONVERTERS SEE PAGE 130

ORDER ONLINE AT [www.grizzly.com](http://www.grizzly.com)

# VARIABLE SPEED TURRET HEAD MILLING MACHINE (3 HP, 3 PH., 10" x 50" TABLE)



**MILLING  
MACHINES**

This is the Bad Boy of vertical milling machines! Weighing in at over a ton of pure metalworking power, it features heavy-duty everything — knee, slideways, work table and saddle support to name a few. It also has a wide range of variable speeds, powered by a three horsepower, three phase industrial motor. And of course, a machine like this naturally comes with a longitudinal power feed table, oil lubricating system, automatic quill feed and monster table travel. So whatever kind of metalworking you're into, from job shops to full scale production shops, this milling machine can handle it.

## FEATURES:

- Centralized lubrication system
- Variable speed
- Power down feed
- Auto stop with micro-adjustable setting
- R-8 spindle
- Meehanite cast iron
- Chrome plated precision ground quill
- Adjustable micrometer quill depth stop
- Multiple saddle, knee, table and ram locks for high rigidity
- Table & cross feed lead screws have double nuts to minimize backlash
- Hardened & ground column and knee slideways
- Hardened and ground table surface
- Heavy-duty saddle supports full width of table
- Comes with longitudinal power feed
- 3 HP, 3 phase, TEFC 1725 RPM motor

## SPECIFICATIONS:

Spindle taper .....	R-8
Spindle travel .....	5"
Table size .....	10" x 50"
Table travel (longitudinal) .....	31½"
Table travel (cross) .....	15"
Table travel (vertical) .....	15"
Max. dist. spindle to column .....	27"
Max. dist. spindle to table .....	17"
Knee travel .....	17"
Head tilt .....	45° both ways
Head swivel .....	90° both ways
T-slots .....	3 on 2½" centers, ½" stud
Variable speed range .....	75 - 3800 RPM
Motor .....	TEFC
Horsepower .....	3
Phase .....	3 phase
RPM .....	1725
Power Transfer .....	V-belt
Bearings .....	shielded and lubricated-for-life
Shipping weight approx. ....	2600 lbs.

MEEHANITE  
CASTINGS  
THROUGHOUT

10" x 50"  
TABLE

MASSIVE  
KNEE

HEAD  
SWIVELS  
90° L & R

VARIABLE  
SPEED

TURRET  
COLUMN

POWER  
FEED

## STANDARD ACCESSORIES:

- Way chip protectors
- Drawbar
- Tool box
- Electric control box & panel
- Power table feed for X axis

*Price reduction due to strong U.S. Dollar.  
BUY NOW!*

**\$300**  
ANYWHERE IN  
LOWER 48 STATES

**\$15.15**  
Per Month O.A.C.

Vertical Mill

MODEL G4029 ONLY \$6495<sup>00</sup>

ONLY \$5995<sup>00</sup>

SHIP ANYWHERE WITHIN 48 STATES FOR \$300<sup>00</sup>

## BUY Sargon. DIGITAL READOUTS

G9937	16" x 36", 2 Axis	\$995.00
G9941	5" x 16" x 36", 3 Axis	\$1195.00

See Page 361 for More Information

**CALL 24 HOURS A DAY FROM ANYWHERE IN THE U.S.A. 1-800-523-4777**

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## HORIZONTAL/VERTICAL MILLING MACHINE

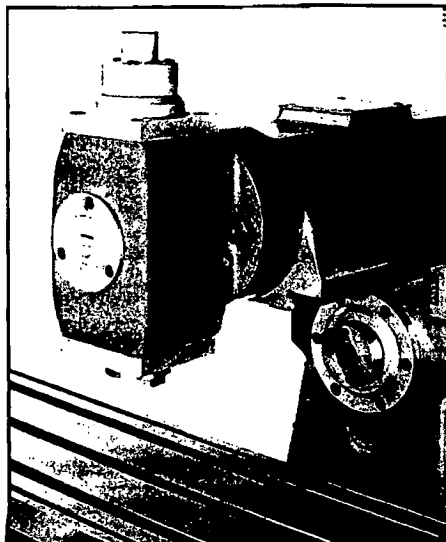
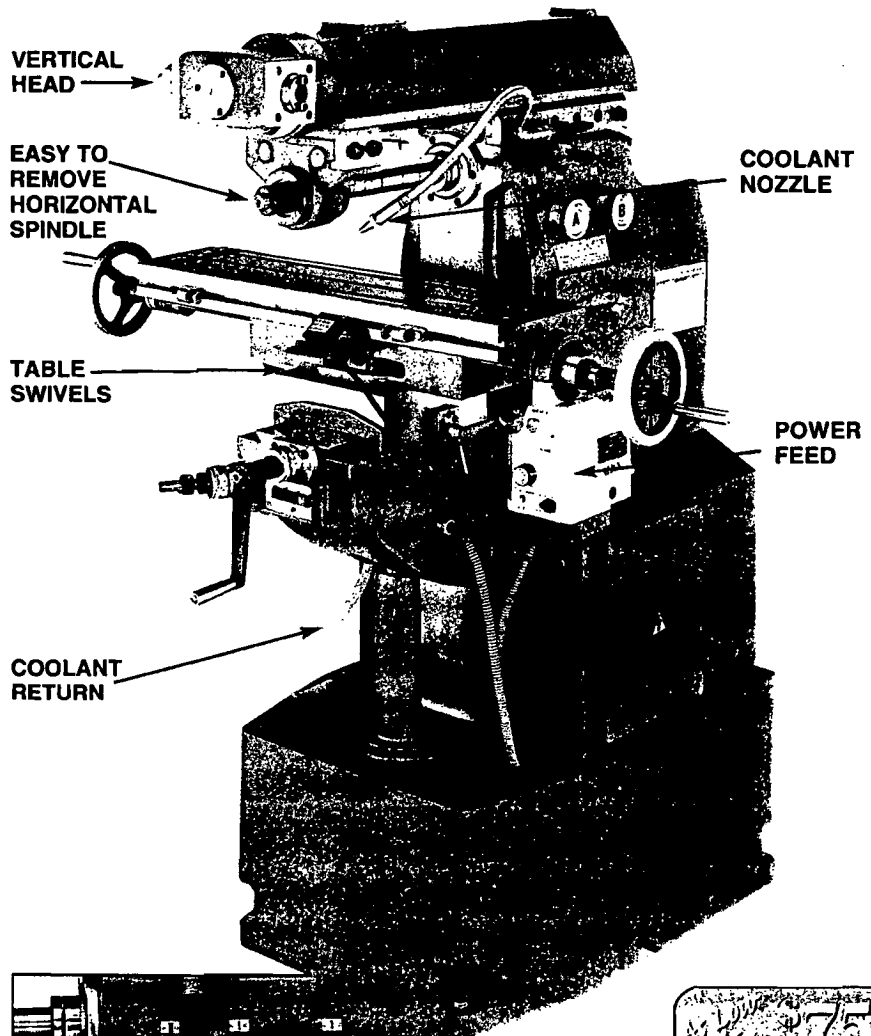
Now you can have the rugged workhorse capability of a horizontal mill and the versatility of a vertical mill all in one machine. This industrial-duty machine features a table that swivels  $\pm 45^\circ$  and a tilting vertical spindle. 2000 lbs of machine provides rigidity and vibration dampening for heavy chatter-free cutting. A high quality, infinitely variable speed, solid state power switch eases the workload and improves the finish. A built-in coolant pump assures long tool life and superior surface finishes. The adjustable outboard spindle support maximizes spindle rigidity. Gear cutters and shell mills can be handled with ease using the NT 30 horizontal holder. The vertical spindle is an R-8 taper.

### FEATURES:

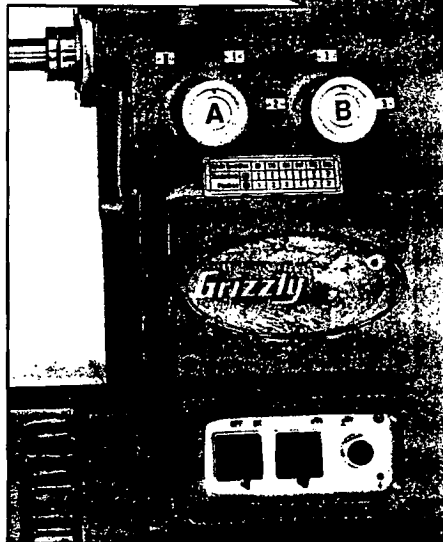
- Power feed included for table
- Quick changeover from horizontal to vertical operation
- Highly precise and rigidly constructed
- Dual voltage capacity

### SPECIFICATIONS:

Table working surface:.....8 $\frac{3}{8}$ " x 27 $\frac{1}{2}$ "  
 Width of T-slot:..... $\frac{1}{2}$ "  
 Longitudinal travel:.....12 $\frac{1}{2}$ "  
 Cross travel:.....7 $\frac{3}{32}$ "  
 Vertical travel:.....12 $\frac{1}{4}$ "  
 Max. distance horizontal spindle center to table:.....10.75"  
 Max. distance vertical spindle to table:.....12.75"  
 Shaft size:.....1"  
 Max. swivel angle of worktable:..... $\pm 45^\circ$   
 Rotation of vertical milling head:.....360°  
 No. of spindle speeds:.....6  
 Range of spindle speeds:.....63-968 RPM  
 Longitudinal feed rate:.....0-200 FPM  
 Motor:.....1 $\frac{1}{2}$  H.P.  
 Coolant system.....Independently switched  
 Horizontal spindle taper:.....NT 30  
 Vertical spindle taper:.....R-8  
 Approx. shipping weight:.....2101 lbs.



**VERTICAL SPINDLE  
CAN BE TURNED OUT OF WAY**



**VIEW OF SWITCHES AND GEARS**

**\$7571**  
Per Month O.A.C.

Horizontal/Vertical Milling Machine

**MODEL G8031**

**ONLY \$2995<sup>00</sup>**

SHIP ANYWHERE WITHIN 48 STATES FOR **\$300<sup>00</sup>**

**\$300**  
ANYWHERE IN  
LOWER 48 STATES

# Sargon. DIGITAL READ-OUTS

**DIGITAL  
READ-OUTS**

**NEW**

**MADE IN  
USA**

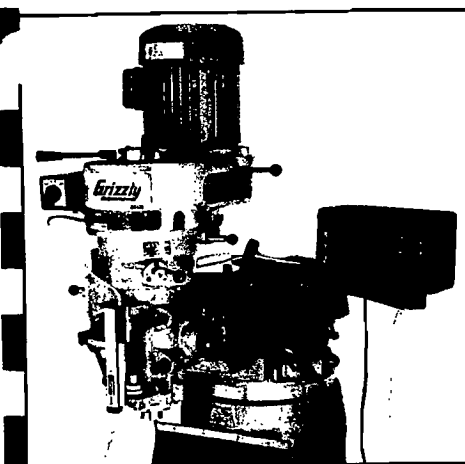
**BUILT STURDY & TOUGH,  
PROVEN RELIABLE!**

Strong construction and intelligent design have earned Sargon™ Digital Read-outs recognition and respect throughout the metalworking industry.

## FEATURES:

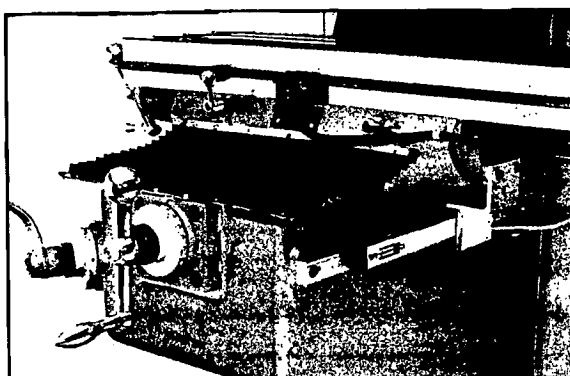
- Machine error compensation
- Absolute/incremental
- Inch and mm conversion
- Fine/coarse display modes

All packages include display, scales and mounting hardware



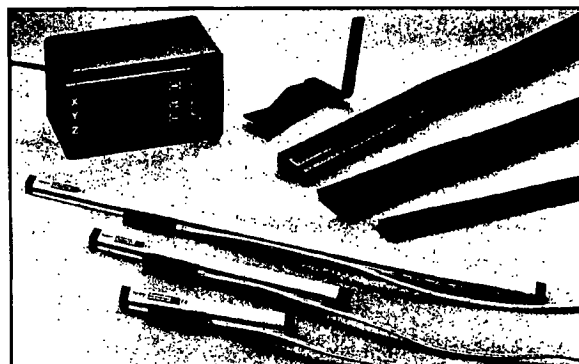
**ON MILLS**

Typical mounting location of Digital ReadOut Display and Scales on a milling machine.



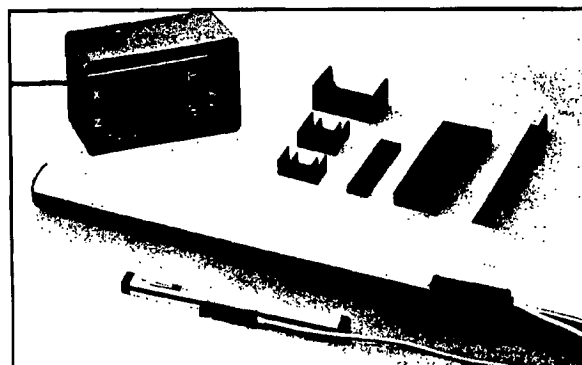
**ON LATHES**

Typical mounting location of Digital ReadOut Display and Scales on a lathe.



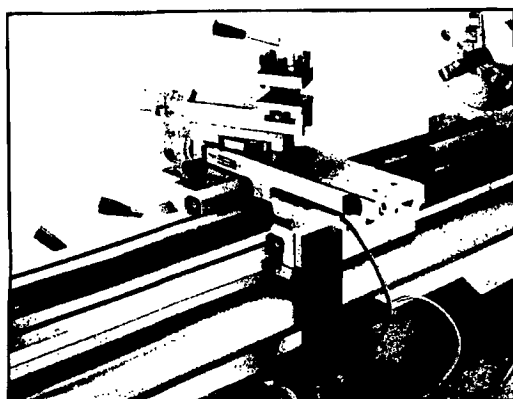
## MILL PACKAGES

MODEL	TABLE TRAVEL	QUILL TRAVEL	TYPE	PRICE
G9934	8" x 20"	N/A	2 Axis	\$950.00
G9935	10" x 24"	N/A	2 Axis	\$965.00
G9936	12" x 30"	N/A	2 Axis	\$975.00
G9937	16" x 36"	N/A	2 Axis	\$995.00
G9938	8" x 20"	6"	3 Axis	\$995.00
G9939	10" x 24"	5"	3 Axis	\$1075.00
G9940	12" x 30"	5"	3 Axis	\$1095.00
G9941	16" x 36"	5"	3 Axis	\$1195.00



## LATHE PACKAGES

MODEL	CROSS SLIDE TRAVEL x SADDLE TRAVEL	PRICE
G9942	8" x 36"	\$995.00
G9943	8" x 40"	\$1095.00
G9944	14" x 50"	\$1195.00
G9945	14" x 60"	\$1395.00
G9946	14" x 80"	\$1550.00



**CALL 24 HOURS A DAY FROM ANYWHERE IN THE U.S.A. 1-800-523-4777**

## MILLING ACCESSORIES

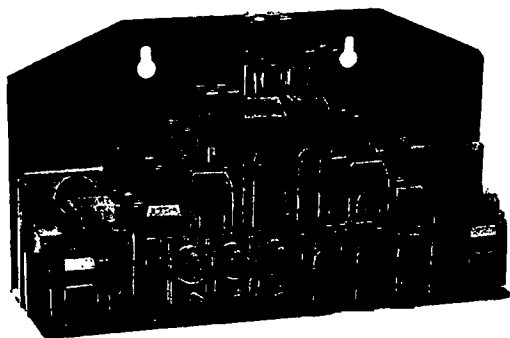


### SWIVEL BASE MILLING VISES

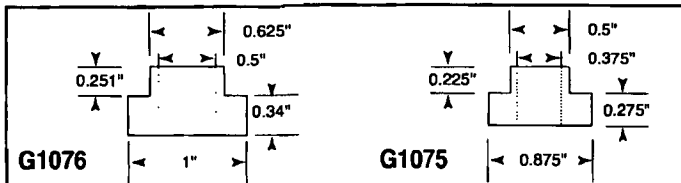
These swivel base milling vises are tough enough to handle any chore. Each features 360° rotation with fine graduations, drop forged handle, precision ground jaw faces, enclosed Acme screw and detachable swivel base.

MODEL	SIZE	OPENING	WEIGHT	PRICE
G5971	3½"	2¾"	25 lbs	\$69.95
G5972	4"	3¾"	39 lbs	\$79.95
G5973	5"	4¾"	54 lbs	\$89.95
G5974	6"	5¾"	92.5 lbs	\$139.95 *
G5975	8"	6¾"	148 lbs	\$179.95 **

\* SHIP ANYWHERE WITHIN 48 STATES FOR \$20<sup>00</sup> \*\* SHIP ANYWHERE WITHIN 48 STATES FOR \$48<sup>00</sup>



### 52-PC. CLAMPING KITS



Our clamping kits are among the best in the world! All the blocks, bolts, nuts and hold-downs are case hardened. Each clamping kit includes: 24 studs, 6 step block pairs, 6 T-nuts, 6 flange nuts, 4 coupling nuts and 6 end hold-downs. We offer the two most popular sizes: ¾" and ½". The ¾" set fits our Model G1004, G1005 and G1008 mills, while the ½" set fits our Model G1006, G1007, G1126, G4027, G4028, G4029 and G5757 mills, plus other larger milling machines on the market. Racks can be bolted to the wall or side of machine for easy access.

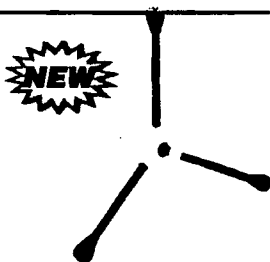
MODEL	T-NUT SIZE	BOLT SIZE	PRICE
G1075	½"	¾"	\$38.95 \$33.95
G1076	¾"	½"	\$39.95 \$33.95

**T-NUTS, CLAMPS, STEP BLOCKS  
AVAILABLE ON PAGE 394**

### SPEED HANDLE

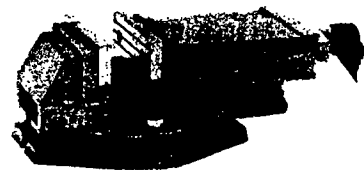
When production is paramount, you can't beat the performance of this 6" Speed Handle. Replaces the original handle on all standard milling machine vises with ¾" hex ends.

MODEL G9591 ONLY **\$9<sup>95</sup>**



## MILLING VISES

If your milling vise requirements call for a heavy-duty workhorse, these fine quality swivel-ling vises fit the bill. Body is made of tough cast iron with steel jaws, heavy Acme screw and removable handle. Every machine and home shop should have one of these!



MODEL	SIZE	WEIGHT	PRICE
G9002	2½"	12 lbs	\$49.95
G5762	4"	30 lbs	\$89.95
G5763	5"	59 lbs	\$109.95
G5764	6"	97 lbs	\$129.95 *

\* SHIP ANYWHERE WITHIN 48 STATES FOR \$20<sup>00</sup>

## 5" TILTING/SWIVELING MILLING VISE

Tilting and swiveling milling vise offers the ultimate in work set-up. Precision aligned jaws and easily accessible tilt and swivel clamps secure for positively worry-free operation. Worth its weight in gold! Shipping weight approx. 80 lbs.



MODEL G7066 ONLY **\$165<sup>00</sup>**

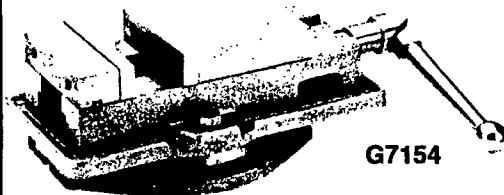
SHIP ANYWHERE WITHIN 48 STATES FOR \$20<sup>00</sup>

## PRECISION MILLING VISES

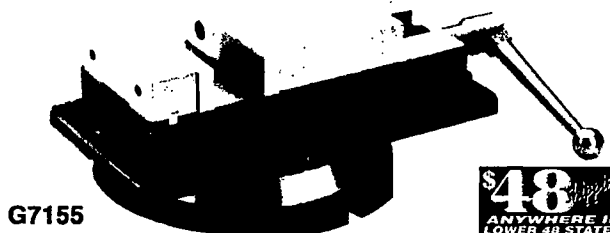
Premium quality swiveling milling vises feature perfectly aligned, precision ground jaws, large Acme screws and easy to read 0 - 360° scales. Trust your best work with these quality milling vises.



G7156



G7154



G7155

**\$48<sup>00</sup>**  
ANYWHERE IN  
LOWER 48 STATES

MODEL	SIZE	OPENING	WEIGHT	PRICE
G7156	4"	3¾"	33.4 lbs	\$99.95
G7154	5"	4½"	58.7 lbs	\$129.95
G7155	6"	5¾"	103.3 lbs	\$199.95 *

\* SHIP ANYWHERE WITHIN 48 STATES FOR \$48<sup>00</sup>



## 4" x 6" METAL-CUTTING BANDSAW

Cut angle-iron, pipe, rods, shafts, structural steel, etc. Completely portable & lightweight, this saw is bound to become an indispensable part of your workshop. Features handle, wheels and a removable table for vertical cuts.

### SPECIFICATIONS:

Capacity ..... 4½" round, 4" x 6" rectangular  
Blade speeds ..... 80, 120, 220 FPM  
Blade size ..... 64½" x ½"  
Motor ..... ½ HP, 110/220V, 60Hz, 1720 RPM  
Amps ..... 9/4.5  
Drive ..... V-belt  
Transmission ..... sealed worm gear  
Overall height ..... horizontal 38"; vertical 55"  
Height: floor-to-table ..... 24"  
Overall width ..... 15"  
Overall length ..... 38"  
Overall bed ..... 26" x 9¼" x 3¼"  
Floor space ..... 18½" x 41¼"  
Angular cuts ..... 90° to 45°  
All ball bearing drive wheel and blade guides  
Shipping weight approx. .... 115 lbs.

**ISO 9002 FACTORY!**

*This is the best  
quality 4" x 6"  
metal cutting  
bandsaw on the  
market. We have  
sold it since 1983!*

4" x 6" Metal-Cutting Bandsaw

**MODEL G1010 ONLY \$199<sup>95</sup>**  
**TOP QUALITY!**

SHIP ANYWHERE WITHIN 48 STATES FOR \$48<sup>00</sup>



## 4" x 6" METAL-CUTTING BANDSAW WITH SWIVEL HEAD

This is one of the best saws on the market for the small or large shop. It features a 5" round and 4" x 6" rectangular capacity. But what really sets this apart from other saws of this size: the head swivels giving a maximum angle of cut of 60°! Remember how much trouble it is to change a vise backing jaw only to get a 45° cut? Not with this guy. The easy-to-adjust head has stops in all the right places. And because the vise backing jaw is rigid on this saw it is taller, giving it the ability to support the workpiece better. And of course, the machine comes with all the features you'd expect from Grizzly like, hydraulic down feed control, easy access wheels for quick blade changes and the right blade speeds to do the job.

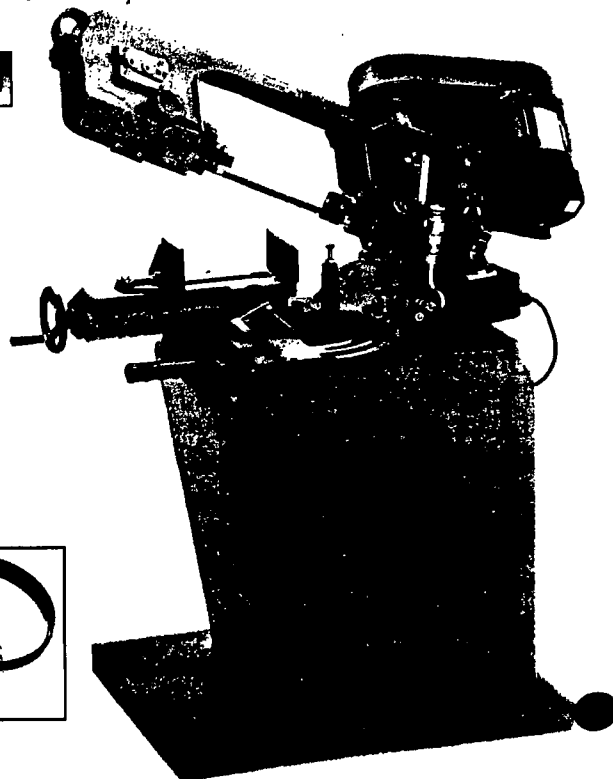
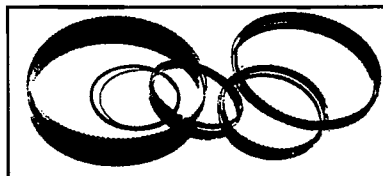
### SPECIFICATIONS:

Max. capacity rectangular @ 0° ..... 4" x 6"  
Max. capacity circular @ 0° ..... 5"  
Max. capacity rectangular @ ±45° ..... 3½" x 3"  
Max. capacity circular @ ±45° ..... 3½"  
Max. capacity rectangular @ +60° ..... 2½" x 2½"  
Max. capacity circular @ +60° ..... 2½"  
Blade speeds ..... 80, 120, 200 FPM  
Blade size ..... 64½" x ½"  
Motor ..... ½ HP, 110V, 60Hz, 1720 RPM  
Amps ..... 7/3.5  
Drive ..... V-belt  
Transmission ..... sealed worm gear  
Overall height ..... horizontal 42½"; vertical 54¼"  
Height: floor-to-table ..... 28½"  
Overall width ..... 15½"  
Overall length ..... 38½"  
Overall bed ..... 19¼" x 13½" x 3"  
Foot print ..... 27¼" x 17"  
Angular cuts ..... -45° to +60°  
Blade size ..... ½" x .025" x 64½"  
All ball bearing drive wheel and blade guides  
Shipping weight approx. .... 176 lbs.

**ISO 9002 FACTORY!**



**DELUXE  
EUROPEAN STYLE  
CABINET STAND**



Metal-Cutting Bandsaw

**MODEL G9742 ONLY \$395<sup>00</sup>**

SHIP ANYWHERE WITHIN 48 STATES FOR \$48<sup>00</sup>

## COOL STEEL BANDSAW BLADES

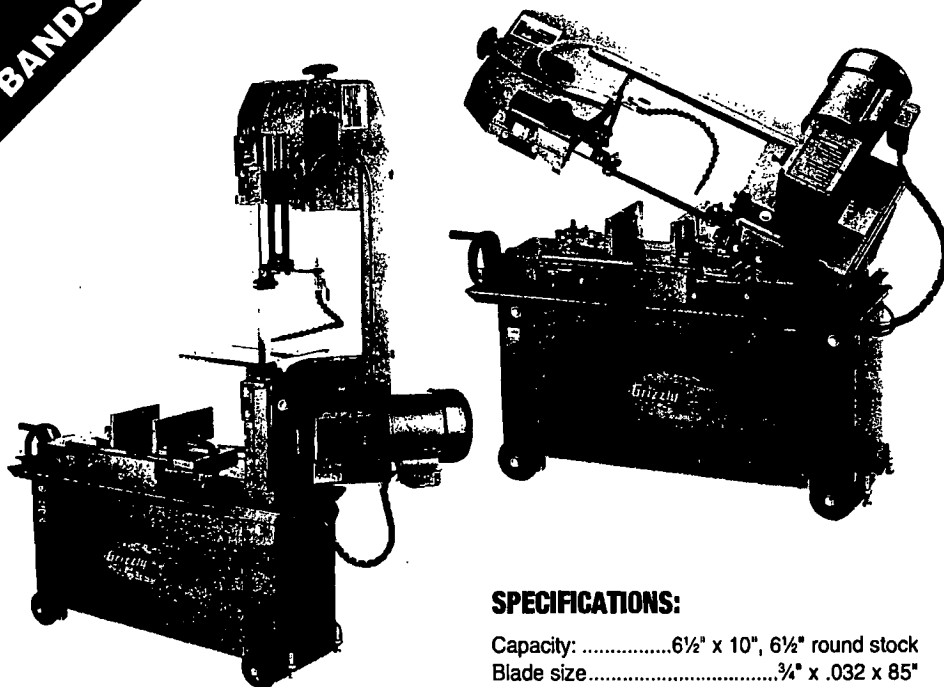
MODEL	LENGTH	WIDTH	T.P.I.	GAUGE	PRICE	4 OR MORE
G5107	64½"	½"	10 raker	.025	\$8.95	\$7.95
G5108	64½"	½"	14 raker	.025	\$8.95	\$7.95
G5109	64½"	½"	18 raker	.025	\$8.95	\$7.95
G5110	64½"	½"	24 raker	.025	\$8.95	\$7.95

## BI-METAL BANDSAW BLADES

MODEL	LENGTH	WIDTH	T.P.I.	GAUGE	PRICE	4 OR MORE
G5111	64½"	½"	6-10 V.P.	.025	\$19.95	\$17.95
G5112	64½"	½"	8-12 V.P.	.025	\$19.95	\$17.95
G5113	64½"	½"	10-14 V.P.	.025	\$19.95	\$17.95
G5114	64½"	½"	14-18 V.P.	.025	\$19.95	\$17.95
G5115	64½"	½"	20-24 V.P.	.025	\$19.95	\$17.95

CALL 24 HOURS A DAY FROM ANYWHERE IN THE U.S.A. 1-800-523-4777

## 6½" x 10" METAL-CUTTING BANDSAW



This full featured machine has everything you need in a metal-cutting bandsaw. From its supporting cast iron base, to its quick-positioning vise, to its rotary pump powered coolant system, this workhorse is at home in the hobby as well as the full production shop. Features include locking roller cabinet for easy mobility, hydraulic feed for smooth cutting, vertical saw table and removable coolant tank for easy cleaning. So, whatever your need, this metal-cutting bandsaw will fit the bill.

### FEATURES:

- Built-in coolant system
- Separate coolant switch
- Hydraulic feed
- Heavy cast iron machine table
- Rapid approach vise
- Roller cabinet
- Adjustable blade guides and rollers
- Automatic shut-off
- Four cutting speeds
- Band tension adjustment
- Hardened and ground worm gears
- Includes blade chip brush, safety guards and vertical saw table

### SPECIFICATIONS:

Capacity: .....6½" x 10", 6½" round stock  
 Blade size.....¾" x .032 x 85"  
 Blade speeds.....100, 180 & 235 FPM  
 Motor.....¾ HP, 1725 RPM  
 Shipping weight .....290 lbs.

6½" x 10" Metal-Cutting Bandsaw  
**MODEL G4030 ONLY \$499<sup>95</sup>**  
 SHIP ANYWHERE WITHIN 48 STATES FOR \$68<sup>00</sup>

EXTRA BLADES ON PAGE 370

## 7" x 12" METAL-CUTTING BANDSAW

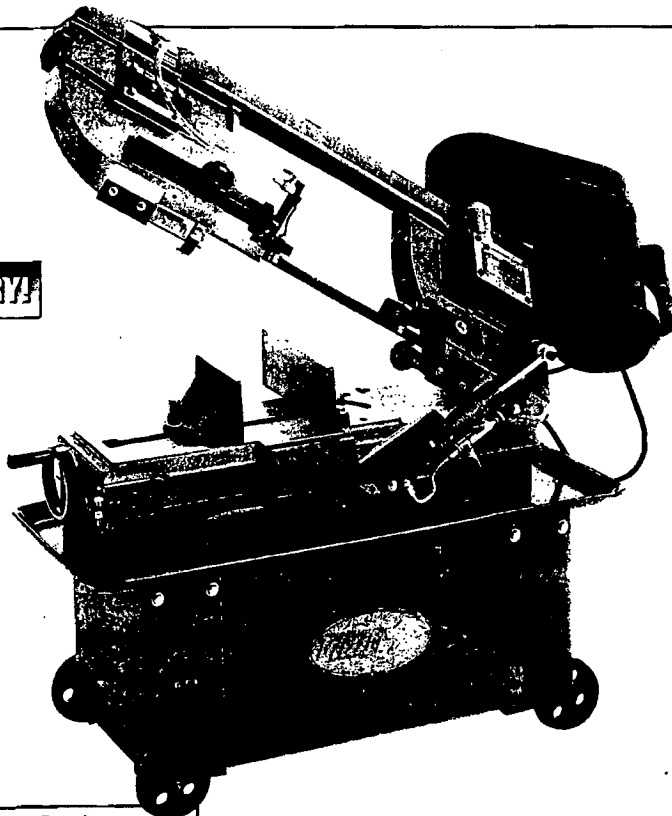
Tame the toughest tubing with this heavy-duty hydraulic-feed bandsaw. Built to handle cylindrical stock to 7" dia. and rectangular materials to 7" x 12", this portable unit - with built-in coolant system - cuts in both vertical and horizontal positions.

### SPECIFICATIONS:

Cutting capacity .....7" round, 7" x 12" rectangular  
 No. of speeds.....4 (85, 130, 180, 235 FPM)  
 Motor size.....1 HP single phase, 110V  
 Blade size .....¾" x 93"  
 Shipping weight approx. ....330 lbs.

### FEATURES:

- Hydraulic feed system with an automatic shut-off
- Built-in coolant system with removable tank
- Quick positioning vise for fast set-up
- Hardened and ground gears and a heavy cast iron bed
- Built-in base wheels make it completely mobile



**This compact, heavy-duty bandsaw has four speeds and cuts in both horizontal & vertical positions!**

7" x 12" Metal-Cutting Bandsaw  
**MODEL G1758 ONLY \$695<sup>00</sup>**  
 SHIP ANYWHERE WITHIN 48 STATES FOR \$68<sup>00</sup>

EXTRA BLADES ON PAGE 370

# 13" x 19" METAL-CUTTING BANDSAW

**BANDSAWS**



This "gentle giant" is our largest horizontal metal-cutting bandsaw. Made in an ISO 9002 rated factory, this saw features variable speeds, 2-way swiveling head and semi-automatic operation. Once the saw finishes its cut, the head rises back up automatically improving operator convenience and efficiency.

## FEATURES:

- Swivel base with degree scale
- Centralized control panel on top of saw bow
- Heavy-duty, all-steel, one-piece base
- Adjustable hydraulic down-feed (just dial your feed rate)
- Variable speed control
- Quick positioning vise
- -45° to +60° swivel
- Tooth selection chart
- Built-in coolant system
- Automatic shut off
- Adjustable blade guide system
- Blade wheels have heavy-duty ball bearings

**OUTBOARD  
CONTROL  
PANEL**

**AUTO-RETURN  
HEAD**

**2 HP, 3 PHASE  
MOTOR**

**VARIABLE  
SPEED DRIVE**

**EXTRA-LARGE  
QUICK RELEASE  
VISE**

**DEGREE  
SCALE**

**PIVOTING  
TABLE**

**HEAVY-DUTY  
WORK STOP**

**RISER BASE  
INCLUDED**

## SPECIFICATIONS:

Blade size .....1" x 150"  
Blade speeds .....72 to 402 F.P.M.  
Miter cutting capacities: .....-45° to +60°  
Cutting capacities:  
0°, square .....12" x 12"  
0°, round .....13"  
0°, rectangular .....5" x 19"  
+45°, round .....12"  
+45°, rectangular .....9" x 12"  
+60°, round .....8"  
+60°, rectangular .....7" x 8"  
Floor to table height .....30"  
Motor size .....2 H.P. Three Phase 220V  
Overall dimensions .....80" L x 28" W x 44" H  
Approx. shipping weight .....1200 lbs.

**MADE IN AN**

**ISO 9002 FACTORY**

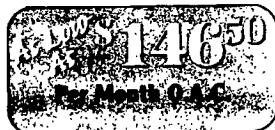
## OPTIONAL EQUIPMENT

### TOOL STEEL BLADES

MODEL	LENGTH	WIDTH	T.P.I	GAUGE	PRICE	4 OR MORE
H2293	150"	1"	10 Raker	.035	\$19.95	\$17.95
H2294	150"	1"	14 Raker	.035	\$19.95	\$17.95

### VARIABLE PITCH BI-METAL BLADES

MODEL	LENGTH	WIDTH	T.P.I	GAUGE	PRICE	4 OR MORE
H2295	150"	1"	3-4 V.P.	.035	\$49.95	\$47.95
H2296	150"	1"	4-6 V.P.	.035	\$49.95	\$47.95
H2297	150"	1"	5-8 V.P.	.035	\$49.95	\$47.95
H2298	150"	1"	6-10 V.P.	.035	\$49.95	\$47.95
H2299	150"	1"	8-12 V.P.	.035	\$49.95	\$47.95
H2300	150"	1"	10-14 V.P.	.035	\$49.95	\$47.95



13" x 19" Metal-Cutting Bandsaw

MODEL G9745 ONLY **\$5795<sup>00</sup>**

SHIP ANYWHERE WITHIN 48 STATES FOR **\$200<sup>00</sup>**

**CALL 24 HOURS A DAY FROM ANYWHERE IN THE U.S.A. 1-800-523-4777**

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# BANDSAWS

## 12" VERTICAL METAL-CUTTING BANDSAW

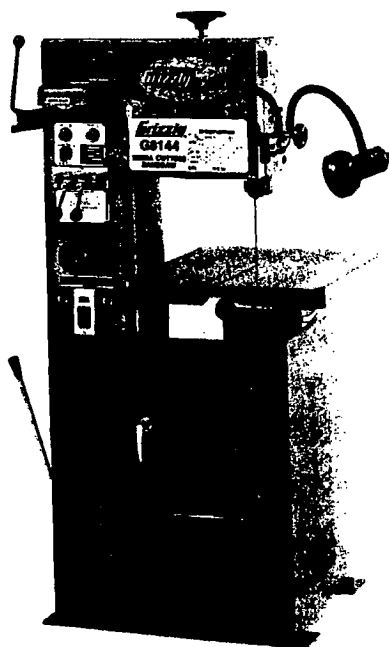
A versatile metal-cutting saw at a great introductory price! Cut materials up to 12" wide and 5" thick - aluminum or brass to tool steels. The complete blade welding station includes a cut-off, welder, annealer and a grinder. Repair your blades or make your own from continuous blade stock.

### FEATURES:

- Four speeds
- Blade welding station includes cutter, welder, annealer and grinder
- Left, right, forward and back table tilting control
- Upper and lower blade guides
- Integrated chip pan
- Work light
- Wheel brush

### SPECIFICATIONS:

Maximum cutting height: .....5½"  
 Throat depth: .....12½"  
 Length of saw blade: .....93¼" - 98"  
 Blade width: .....1/8" - 1/2"  
 Four step speed: .....89 - 322 FPM  
 Main motor / Grinder motor: .....½ HP / 1/8 HP  
 Electric welder: .....1.2 KVA  
 Table tilt: .....45° right, 15° left,  
 .....10° forward and back  
 Table height: .....35⅞"  
 Table size: .....15½" x 19½"  
 Overall dimensions: .....59½" x 34" x 21¼"  
 Net weight: .....540 lbs.



12" Metal-Cutting Bandsaw

MODEL G8144 ONLY **\$1695<sup>00</sup>**

SHIP ANYWHERE WITHIN 48 STATES FOR **\$115<sup>00</sup>**



### BANDSAW BLADES

#### TOOL STEEL

G8803	97"	1/4"	6 hook	\$10.95
G8804	97"	1/4"	14 raker	\$10.95

#### BI METAL

G8805	97"	1/4"	6 hook	\$28.95
G8806	97"	1/4"	10-14 VP	\$28.95
G8807	97"	1/2"	10-14 VP	\$28.95

## 14" VERTICAL METAL-CUTTING BANDSAW

Need a slightly larger metal-cutting bandsaw with variable speeds? Our new 14" saw has the power, speed and blade tension to do everything from straight cuts to compound cuts. And an easy to use blade welding station makes blade repair and internal cuts a breeze!

### FEATURES:

- Variable speeds range from 98 - 394 FPM
- Blade welding station includes cutter, welder, annealer and grinder
- Left, right, forward and back table tilting control
- Upper and lower blade guides
- Integrated chip pan
- Work light
- Wheel brush

### SPECIFICATIONS:

Cutting capacity: .....6⅞"  
 Throat depth: .....14⅞"  
 Length of saw blade: .....102⅞" - 109"  
 Blade width: .....1/8" - 1/2"  
 Variable speed: .....98 - 394 FPM  
 Main motor / Grinder motor: .....1 HP / 1/8 HP  
 Electric welder: .....2.0 KVA  
 Table tilt: .....45° right, 15° left,  
 .....10° forward and back  
 Table height: .....35⅞"  
 Table size: .....19⅞" x 21¼"  
 Overall dimensions: .....63" x 38⅞" x 22⅞"  
 Net weight: .....704 lbs.

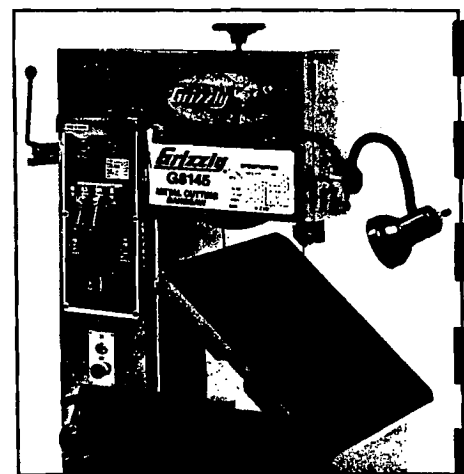
**\$1695<sup>00</sup>**  
 Per Month O.A.C.



14⅞" Metal-Cutting Bandsaw

MODEL G8145 ONLY **\$2195<sup>00</sup>**

SHIP ANYWHERE WITHIN 48 STATES FOR **\$115<sup>00</sup>**



### BANDSAW BLADES

#### TOOL STEEL

G8808	108"	1/4"	6 hook	\$95
G8809	108"	1/4"	14 raker	\$10.95

#### BI METAL

G8810	108"	1/4"	6 hook	\$29.95
G8811	108"	1/4"	10-14 VP	\$29.95
G8812	108"	1/2"	10-14 VP	\$29.95

# 15<sup>3</sup>/<sub>4</sub>" VERTICAL METAL-CUTTING BANDSAW

**BANDSAWS**

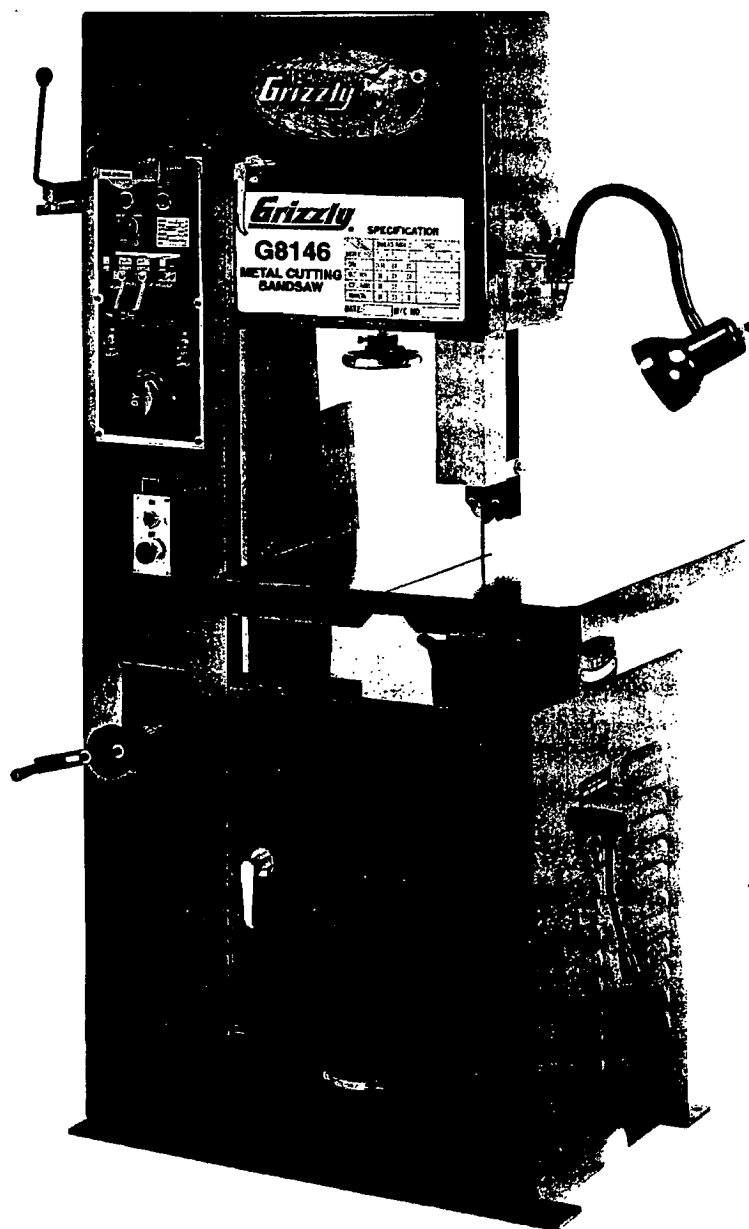
This new metal-cutting workhorse will cut through materials from aluminum to tough tool steels easily. The table tilts in two directions allowing compound angle cuts. Tubing, angle iron, stacked cuts will be no problem with the 2 HP, 220V motor. You can even do internal cuts by using the on-board blade welder to position the blade within the workpiece!

## FEATURES:

- Variable speeds range from 97 - 388 FPM
- Blade welding station includes cutter, welder, annealer and grinder
- Left, right, forward and back table tilting control
- Upper and lower blade guides
- Integrated chip pan
- Work light
- Wheel brush

## SPECIFICATIONS:

Maximum cutting height: .....10<sup>1</sup>/<sub>4</sub>"  
 Throat depth: .....15<sup>3</sup>/<sub>4</sub>"  
 Length of saw blade: .....130<sup>3</sup>/<sub>4</sub>" - 135<sup>7</sup>/<sub>16</sub>"  
 Blade width: .....<sup>1</sup>/<sub>8</sub>" - <sup>3</sup>/<sub>4</sub>"  
 Variable speed: .....97 - 388 FPM  
 Main motor / Grinder motor: .....2 HP / <sup>1</sup>/<sub>2</sub> HP  
 Electric welder: .....5.0 KVA  
 Table tilt: .....45° right, 15° left,  
 .....10° forward and back  
 Table height: .....38<sup>3</sup>/<sub>4</sub>"  
 Table size: .....21<sup>5</sup>/<sub>8</sub>" x 23<sup>3</sup>/<sub>4</sub>"  
 Overall dimensions: .....71<sup>1</sup>/<sub>4</sub>" x 42<sup>1</sup>/<sub>2</sub>" x 28<sup>1</sup>/<sub>2</sub>"  
 Net weight: .....990 lbs.



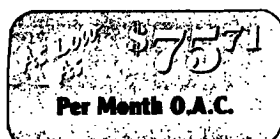
## BANDSAW BLADES

### TOOL STEEL

G8813	134"	<sup>1</sup> / <sub>4</sub> "	6 hook	\$12.95
G8814	134"	<sup>1</sup> / <sub>4</sub> "	14 raker	\$12.95

### BI METAL

G8815	134"	<sup>1</sup> / <sub>4</sub> "	6 hook	\$36.95
G8816	134"	<sup>1</sup> / <sub>4</sub> "	10-14 VP	\$36.95
G8817	134"	<sup>1</sup> / <sub>2</sub> "	10-14 VP	\$36.95



15<sup>3</sup>/<sub>4</sub>" Metal-Cutting Bandsaw

**MODEL G8146 ONLY \$2995<sup>00</sup>**

SHIP ANYWHERE WITHIN 48 STATES FOR \$150<sup>00</sup>

**CALL 24 HOURS A DAY FROM ANYWHERE IN THE U.S.A. 1-800-523-4777**

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## METAL CUTTING BANDSAW BLADES

We are pleased to offer a full selection of high quality bandsaw blades for every metal cutting application. We have many combinations of blade pitch in raker tooth and variable pitch styles to cut many types of metal. Manufactured in bi-metal or high carbon tool steel with superior welds, they are sized to fit Grizzly metal cutting bandsaws, but may fit other brands as well.

### TOOL STEEL BANDSAW BLADES

#### FITS PORTER-CABLE AND GRIZZLY PORTABLE BANDSAWS

MODEL	LENGTH	WIDTH	T.P.I.	GAUGE	PRICE	4 OR MORE
G9112	44½"	½"	14 raker	.025	\$7.95	\$6.95
G9113	44½"	½"	18 raker	.025	\$7.95	\$6.95
G9114	44½"	½"	24 raker	.025	\$7.95	\$6.95

#### FITS MILWAUKEE PORTABLE BANDSAWS

MODEL	LENGTH	WIDTH	T.P.I.	GAUGE	PRICE	4 OR MORE
G5138	53¾"	½"	14 raker	.025	\$7.95	\$6.95
G5139	53¾"	½"	18 raker	.025	\$7.95	\$6.95
G5140	53¾"	½"	24 raker	.025	\$7.95	\$6.95

#### FITS G1010 4" x 6" METAL CUTTING BANDSAW

MODEL	LENGTH	WIDTH	T.P.I.	GAUGE	PRICE	4 OR MORE
G5107	64½"	½"	10 raker	.025	\$8.95	\$7.95
G5108	64½"	½"	14 raker	.025	\$8.95	\$7.95
G5109	64½"	½"	18 raker	.025	\$8.95	\$7.95
G5110	64½"	½"	24 raker	.025	\$8.95	\$7.95

#### FITS G4030 6½" x 10" METAL CUTTING BANDSAW

MODEL	LENGTH	WIDTH	T.P.I.	GAUGE	PRICE	4 OR MORE
G5451	85"	¾"	10 raker	.032	\$12.95	\$10.95
G5452	85"	¾"	14 raker	.032	\$12.95	\$10.95
G5453	85"	¾"	18 raker	.032	\$12.95	\$10.95

#### FITS G1758 7" x 12" METAL CUTTING BANDSAW

MODEL	LENGTH	WIDTH	T.P.I.	GAUGE	PRICE	4 OR MORE
G5124	93"	¾"	10 raker	.035	\$12.95	\$10.95
G5125	93"	¾"	14 raker	.035	\$12.95	\$10.95
G5126	93"	¾"	18 raker	.035	\$12.95	\$10.95

#### FITS G9743 9" x 12" GEARED HEAD METAL CUTTING BANDSAW

MODEL	LENGTH	WIDTH	T.P.I.	GAUGE	PRICE	4 OR MORE
H2307	104½"	¾"	10 raker	.032	\$14.95	\$12.95
H2308	104½"	¾"	14 raker	.032	\$14.95	\$12.95

#### FITS G1011/G1011Z 7" x 12" METAL CUTTING BANDSAW

MODEL	LENGTH	WIDTH	T.P.I.	GAUGE	PRICE	4 OR MORE
G5116	107"	1"	10 raker	.035	\$14.95	\$12.95
G5117	107"	1"	14 raker	.035	\$14.95	\$12.95

#### FITS G9744 9" x 16" METAL CUTTING BANDSAW

MODEL	LENGTH	WIDTH	T.P.I.	GAUGE	PRICE	4 OR MORE
H2305	121½"	1½"	10 raker	.035	\$16.95	\$14.95
H2306	121½"	1½"	14 raker	.035	\$16.95	\$14.95

#### FITS PRE-2000 G4006 METAL CUTTING BANDSAW

MODEL	LENGTH	WIDTH	T.P.I.	GAUGE	PRICE	4 OR MORE
G6432	129¾"	1"	10 Raker	.035	\$16.95	\$14.95
G6433	129¾"	1"	14 Raker	.035	\$16.95	\$14.95

### BI-METAL VARIABLE PITCH BANDSAW BLADES

#### FITS PORTER-CABLE AND GRIZZLY PORTABLE BANDSAWS

MODEL	LENGTH	WIDTH	T.P.I.	GAUGE	PRICE	4 OR MORE
G9115	44½"	½"	10-14 V.P.	.025	\$19.95	\$17.95
G9116	44½"	½"	14-18 V.P.	.025	\$19.95	\$17.95
G9117	44½"	½"	20-24 V.P.	.025	\$19.95	\$17.95

### BI-METAL VARIABLE PITCH BANDSAW BLADES

#### FITS MILWAUKEE PORTABLE BANDSAWS

MODEL	LENGTH	WIDTH	T.P.I.	GAUGE	PRICE	4 OR MORE
G5141	53¾"	½"	10-14 V.P.	.025	\$18.95	\$16.95
G5142	53¾"	½"	14-18 V.P.	.025	\$18.95	\$16.95
G5143	53¾"	½"	20-24 V.P.	.025	\$18.95	\$16.95

#### FITS G1010 4" x 6" METAL CUTTING BANDSAW

MODEL	LENGTH	WIDTH	T.P.I.	GAUGE	PRICE	4 OR MORE
G5111	64½"	½"	6-10 V.P.	.025	\$19.95	\$17.95
G5112	64½"	½"	8-12 V.P.	.025	\$19.95	\$17.95
G5113	64½"	½"	10-14 V.P.	.025	\$19.95	\$17.95
G5114	64½"	½"	14-18 V.P.	.025	\$19.95	\$17.95
G5115	64½"	½"	20-24 V.P.	.025	\$19.95	\$17.95

#### FITS G4030 6½" x 10" METAL CUTTING BANDSAW

MODEL	LENGTH	WIDTH	T.P.I.	GAUGE	PRICE	4 OR MORE
G5454	85"	¾"	4-6 V.P.	.032	\$34.95	\$29.95
G5455	85"	¾"	5-8 V.P.	.032	\$34.95	\$29.95
G5456	85"	¾"	6-10 V.P.	.032	\$34.95	\$29.95
G5457	85"	¾"	8-12 V.P.	.032	\$34.95	\$29.95
G5458	85"	¾"	10-14 V.P.	.032	\$34.95	\$29.95

#### FITS G1758 7" x 12" METAL CUTTING BANDSAW

MODEL	LENGTH	WIDTH	T.P.I.	GAUGE	PRICE	4 OR MORE
G5127	93"	¾"	4-6 V.P.	.035	\$34.95	\$29.95
G5128	93"	¾"	5-8 V.P.	.035	\$34.95	\$29.95
G5129	93"	¾"	6-10 V.P.	.035	\$34.95	\$29.95
G5130	93"	¾"	8-12 V.P.	.035	\$34.95	\$29.95
G5131	93"	¾"	10-14 V.P.	.035	\$34.95	\$29.95

#### FITS G9743 9" x 12"

#### GEARED HEAD METAL CUTTING BANDSAW

MODEL	LENGTH	WIDTH	T.P.I.	GAUGE	PRICE	4 OR MORE
H2315	104½"	¾"	3 Hook	.032	\$44.95	\$39.95
H2316	104½"	¾"	4-6 V.P.	.032	\$44.95	\$39.95
H2317	104½"	¾"	5-8 V.P.	.032	\$44.95	\$39.95
H2318	104½"	¾"	6-10 V.P.	.032	\$44.95	\$39.95
H2319	104½"	¾"	8-12 V.P.	.032	\$44.95	\$39.95
H2320	104½"	¾"	10-14 V.P.	.032	\$44.95	\$39.95

#### FITS G1011/G1011Z 7" x 12" METAL CUTTING BANDSAW

MODEL	LENGTH	WIDTH	T.P.I.	GAUGE	PRICE	4 OR MORE
G5118	107"	1"	3-4 V.P.	.035	\$39.95	\$34.95
G5119	107"	1"	4-6 V.P.	.035	\$39.95	\$34.95
G5120	107"	1"	5-8 V.P.	.035	\$39.95	\$34.95
G5121	107"	1"	6-10 V.P.	.035	\$39.95	\$34.95
G5122	107"	1"	8-12 V.P.	.035	\$39.95	\$34.95
G5123	107"	1"	10-14 V.P.	.035	\$39.95	\$34.95

#### FITS G9744 9" x 16" METAL CUTTING BANDSAW

MODEL	LENGTH	WIDTH	T.P.I.	GAUGE	PRICE	4 OR MORE
H2309	121½"	1½"	3-4 V.P.	.035	\$49.95	\$44.95
H2310	121½"	1½"	4-6 V.P.	.035	\$49.95	\$44.95
H2311	121½"	1½"	5-8 V.P.	.035	\$49.95	\$44.95
H2312	121½"	1½"	6-10 V.P.	.035	\$49.95	\$44.95
H2313	121½"	1½"	8-12 V.P.	.035	\$49.95	\$44.95
H2314	121½"	1½"	10-14 V.P.	.035	\$49.95	\$44.95

#### FITS PRE-2000 G4006 METAL CUTTING BANDSAW

MODEL	LENGTH	WIDTH	T.P.I.	GAUGE	PRICE	4 OR MORE
G6434	129¾"	1"	3-4 V.P.	.035	\$49.95	\$44.95
G6435	129¾"	1"	4-6 V.P.	.035	\$49.95	\$44.95
G6436	129¾"	1"	5-8 V.P.	.035	\$49.95	\$44.95
G6437	129¾"	1"	6-10 V.P.	.035	\$49.95	\$44.95
G6438	129¾"	1"	8-12 V.P.	.035	\$49.95	\$44.95
G6439	129¾"	1"	10-14 V.P.	.035	\$49.95	\$44.95

## UNIVERSAL BENDING MACHINE

German made bending machine will bend pipe, flat and round material in conjunction with your vise. This universal bender includes angle bender, strip roller and pipe bender. Bending capacity for flat material is up to  $\frac{5}{32}$ " thick by  $1\frac{37}{64}$ " wide; pipe capacity is  $\frac{5}{32}$ " dia.,  $\frac{15}{64}$ " dia.,  $\frac{3}{16}$ " dia. and  $\frac{25}{64}$ " dia.; solid round stock is up to  $\frac{25}{64}$ " dia. Bending radius for pipe and solid material is  $\frac{35}{64}$ " for  $\frac{5}{32}$ " dia. and  $\frac{15}{64}$ " dia.,  $\frac{3}{4}$ " for  $\frac{3}{16}$ " dia. and  $\frac{1}{64}$ " for  $\frac{25}{64}$ " dia. Includes carrying case.

MODEL G7918 ONLY **\$175<sup>00</sup>**

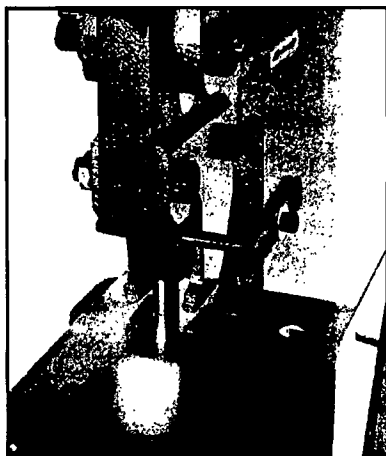
## UNIVERSAL BENDER

Heavy-duty Universal Bender has a bending capacity of 28½ tons to shape steel, iron, wrought iron, brass, copper and aluminum. Make radius bends, rings, spirals and angle bends. Maximum capacity for round bar:  $\frac{5}{8}$ "; square bar:  $\frac{1}{2}$ "; and flat bar:  $1\frac{1}{2}$ " x  $\frac{5}{16}$ ". Fully adjustable. Shipping weight is approx. 53 lbs.

MODEL G7153  
ONLY **\$189<sup>95</sup>**

## HAND PUNCHER

For repetitive hole punching, nothing beats the speed of a hand puncher. With a throat depth of  $6\frac{1}{32}$ ", versatile puncher can punch a hole in mild steel up to  $\frac{7}{16}$ " thick. Measures  $5\frac{1}{2}$ " wide by  $31\frac{1}{2}$ " tall (without handle).  $\frac{5}{8}$ " hole die included. Shipping weight approx. 175 lbs.

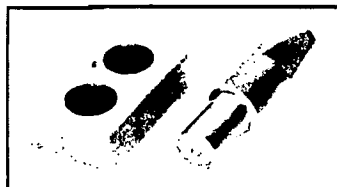


**\$48**  
ANYWHERE IN  
LOWER 48 STATES

MODEL G7151 ONLY **\$375<sup>00</sup>**

SHIP ANYWHERE WITHIN 48 STATES FOR **\$48<sup>00</sup>**

## DIES



MODEL	TYPE	PRICE
G8032	$\frac{1}{8}$ " Die for G7151 Punch	\$19.95
G8033	$\frac{3}{16}$ " Die for G7151 Punch	\$19.95
G8034	$\frac{1}{4}$ " Die for G7151 Punch	\$19.95
G8035	$\frac{5}{16}$ " Die for G7151 Punch	\$19.95
G8040	$\frac{3}{8}$ " Die for G7151 Punch	\$19.95
G8041	$\frac{7}{16}$ " Die for G7151 Punch	\$19.95
G8042	$\frac{1}{2}$ " Die for G7151 Punch	\$19.95
G8043	$\frac{5}{8}$ " Die for G7151 Punch	\$19.95
G8044	$\frac{3}{4}$ " Die for G7151 Punch	\$19.95

## 4 TON NOTCHER

Cut 90° notches up to 6" x 6" in 16 gauge mild steel (slightly less for galvanized steel) and 20 gauge stainless steel. Features fully adjustable precision ground guide plates, fine reading scale,  $\frac{3}{4}$ " stroke and  $19\frac{1}{4}$ " handle with rubber grip. Table size is  $12\frac{1}{4}$ " L x  $18\frac{1}{2}$ " W. Shipping weight is approx. 220 lbs.

MODEL G7152 ONLY **\$295<sup>95</sup>**

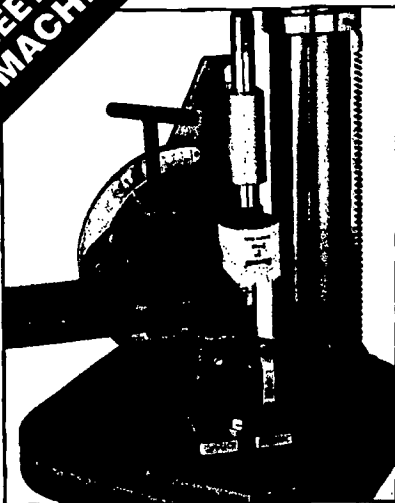
SHIP ANYWHERE WITHIN  
48 STATES FOR **\$48<sup>00</sup>**



**\$48**  
ANYWHERE IN  
LOWER 48 STATES

**SHEET METAL  
MACHINES**

## PIPE/TUBE NOTCHER



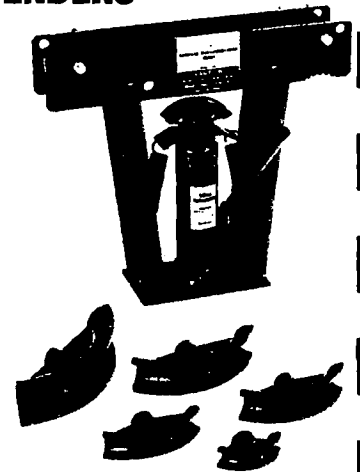
Our tube and pipe notcher can make joints for just about any structure – even a bicycle! These close fitting joints mean no hassle welding, brazing or epoxy. Can be used on a drill press or slow speed hand drill. Accepts hole saws up to 2 3/4" and pipe or tubing up to 2 1/2" O.D. Spindle Stroke is 3 3/4". Includes hole saw arbor. (Bi-metal hole saw not included.)

SEE PAGE 187  
FOR HOLE SAWS

Pipe/Tube Notcher  
**MODEL G8686 ONLY \$59<sup>95</sup>**

## HYDRAULIC TUBE BENDERS HORIZONTAL/ VERTICAL

Any serious do-it-yourselfer or job shop must have one of these! The bending dies are sized in pipe diameters. Capacity is: 1/2", 3/4", 1", 1 1/4", 1 1/2" and 2" pipe on the 12 ton bender and 1/2", 3/4", 1", 1 1/4", 1 1/2", 2 1/2" and 3" pipe on the 16 ton bender. (Maximum pipe size while bending to 90°: 2" on G9017 and 3" on G9018. Schedule 40 wall thickness on both). Shipping weight approximately 93 lbs. on the G9017 and 152 lbs. on the G9018. (Not for exhaust pipe.)



**MODEL G9017 12 Ton Hydraulic Tube Bender ONLY \$89<sup>95</sup>**

SHIP ANYWHERE WITHIN 48 STATES FOR \$20<sup>00</sup>

**MODEL G9018 16 Ton Hydraulic Tube Bender ONLY \$159<sup>95</sup>**

SHIP ANYWHERE WITHIN 48 STATES FOR \$48<sup>00</sup>

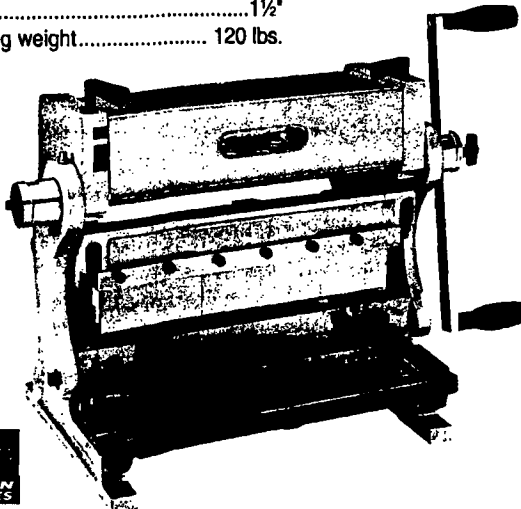
## COMBINATION 3 IN 1 SHEET METAL MACHINES

**SHEAR, BRAKE & SLIP ROLL - ALL ON ONE MACHINE**

This "little" machine has got to be the slickest sheet metal machine on the market! It shears, it brakes and slip rolls! Large capacity lets you carry out all 3 functions with ease. Brake attachment comes with sectional fingers for forming various-sized boxes.

### G6089 12" SHEET METAL MACHINE SPECIFICATIONS:

Maximum capacity in mild steel.....22 gauge  
Roll diameter.....1 1/2"  
Approx. shipping weight..... 120 lbs.



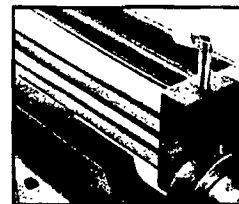
**\$48<sup>00</sup>**  
ANYWHERE IN  
LOWER 48 STATES

12" Sheet Metal Machine  
**MODEL G6089 ONLY \$199<sup>95</sup>**

SHIP ANYWHERE WITHIN 48 STATES FOR \$48<sup>00</sup>

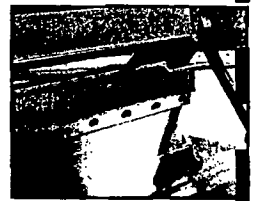
30" Sheet Metal Machine  
**MODEL G4011 \$299<sup>95</sup> ONLY \$289<sup>95</sup>**

SHIP ANYWHERE WITHIN 48 STATES FOR \$68<sup>00</sup>

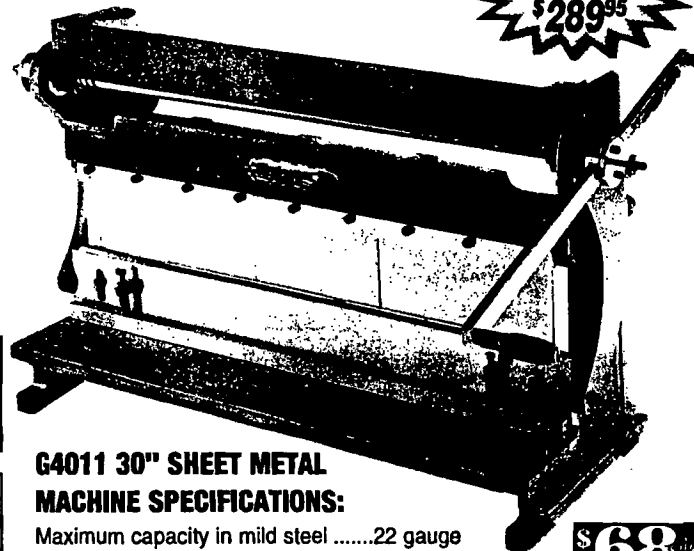


Precision-aligned table and cutting blade make quick work of mild steel to 22 gauge. The Model G4011 features an adjustable handle length, so you can increase or decrease lever control. Heavy cast iron base features bolt attachments at all four corners.

Heavy-duty roller mechanisms are ground for ultra-smooth rolling functions. Includes hinged roller cover for added safety and security.



**Special  
Purchase Price  
\$289<sup>95</sup>**



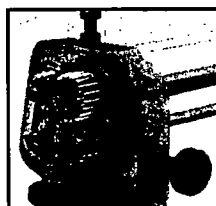
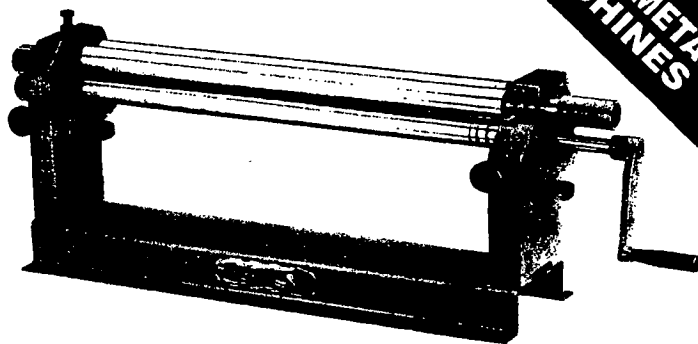
### G4011 30" SHEET METAL MACHINE SPECIFICATIONS:

Maximum capacity in mild steel .....22 gauge  
Roll diameter .....1 1/2"  
Approx. shipping weight..... 355 lbs.

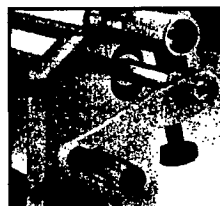
**\$68<sup>00</sup>**  
ANYWHERE IN  
LOWER 48 STATE



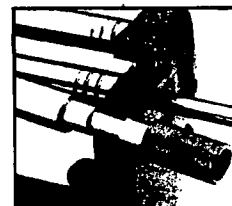
## 24" SLIP ROLL



**HARDENED GEARS**



**LARGE CRANK**



**WIRE GROOVES**

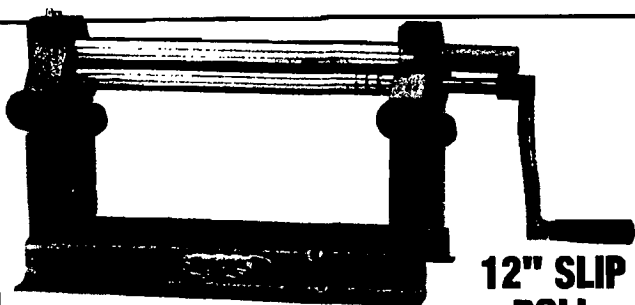
For those who want a little extra capacity over the 12" slip roll, our 24" fits the bill. Large handle crank and hardened, heavy-duty gearing gives you the mechanical advantage to roll mild steel up to 22 ga. Features quick release top roller and bushings found on larger slip rolls. Nice unit!

### SPECIFICATIONS:

- Maximum capacity: 24"
- Roll diameter: 1 1/2"
- Footprint: 7 3/4" x 28"
- Approx. Ship Weight: 94 lbs.

**\$20**  
ANYWHERE IN  
LOWER 48 STATES

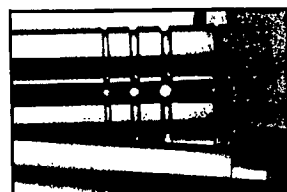
**MODEL G7149 ONLY \$359<sup>95</sup>**  
SHIP ANYWHERE WITHIN 48 STATES FOR \$20<sup>00</sup>



## 12" SLIP ROLL



**HARDENED GEARS**



**WIRE GROOVES**

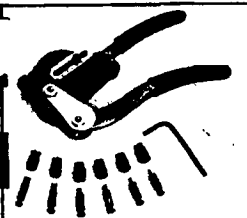
This little rascal is just the ticket for live steamers, model makers and small jobbers. With its 12" ground and polished rolls it can handle mild steel up to 22 gauge and also has 1/16", 1/8" and 5/32" diameter grooves to handle rod and wire. A great little machine!

### SPECIFICATIONS:

- Maximum capacity: 12"
- Roll diameter: 1"
- Footprint: 24 5/8" x 7 1/8"
- Gauge: 22 ga.
- Gear drive
- Cast iron frame
- Approx. Ship Weight: 35 lbs.

**MODEL G7148  
ONLY \$159<sup>95</sup>**

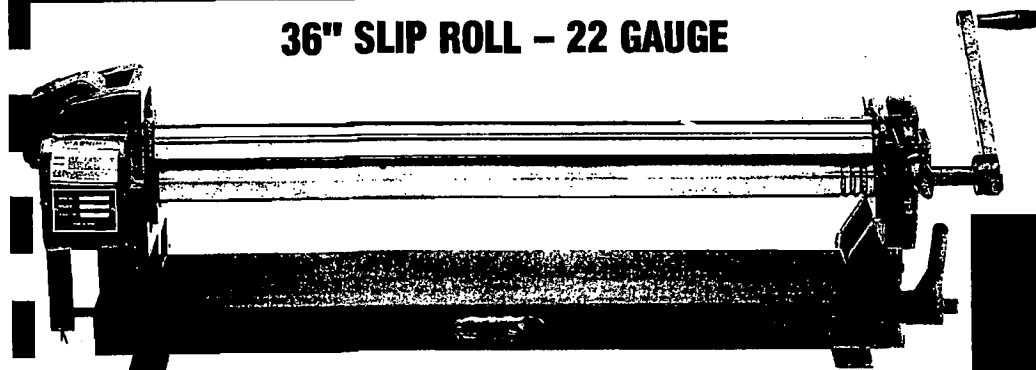
## PORTABLE HAND PUNCH



Producing 1 ton of force, this Hand Punch has a 16 gauge capacity in mild steel, brass and aluminum. Much quicker and safer than drilling thin stock and leaves no ragged edges. Includes 3/32", 1/8", 5/32", 3/16", 7/32", 1/4" and 1/2" dies and wrenches.

**MODEL G8780 ONLY \$19<sup>95</sup>**

## 36" SLIP ROLL - 22 GAUGE



**\$68**  
ANYWHERE IN  
LOWER 48 STATES

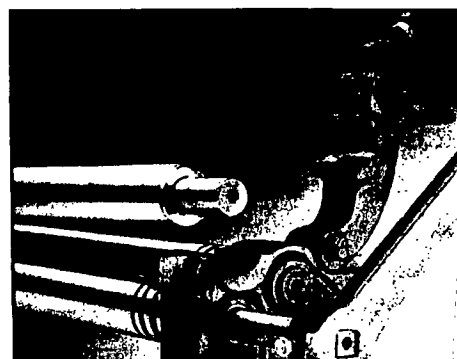
Slip roll up to 36" wide and 22 gauge mild steel with this bench-top sheet metal roller. Cast iron construction and 2" diameter ground and polished rolls make this slip roll ideal for many fabricating uses. With a net weight of 200 pounds and features like heavy bearings and gearing and the ability to slip roll 3/16"-5/16" diameter rod/wire stock, every sheet metal shop needs one of these!

### FEATURES:

- Precision ground cast iron rollers
- 36" wide capacity
- Quick release top roller
- Hardened steel gearing

### SPECIFICATIONS:

- Maximum capacity .....36"
- Minimum roll size .....2"
- Footprint.....48" x 12"
- Gauge .....22 gauge mild steel
- Rod/wire grooves dia.:.....3/16", 1/4" & 5/16"
- Approx. ship. weight:.....280 lbs.



**36" Slip Roll - 22 Gauge  
MODEL G5770 ONLY \$395<sup>00</sup>**  
SHIP ANYWHERE WITHIN 48 STATES FOR \$68<sup>00</sup>

# SHEET METAL MACHINES

**NEW**

## SHEET METAL MACHINES

### MINI SHEET METAL CUTTER

The new G9947 rotary shear will make quick work of cutting sheet metal to 16 gauge. Features an adjustable roller for straight or curved cuts. 11" handle.



MODEL G9947 ONLY \$19<sup>95</sup>

### SHEET METAL SHEARS

These excellent quality shears will slice through sheet metal, cut rebar and round stock too. Features ground and hardened knives with an extended length handle for maximum leverage. Mounts directly to your workbench.

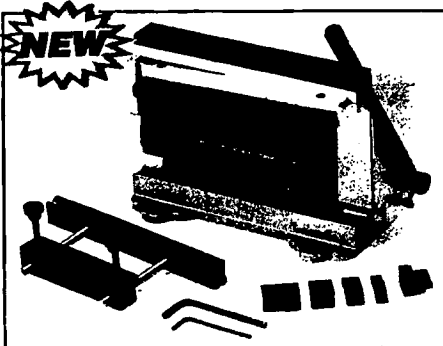


**NEW**

MODEL	SIZE	PLATE CAPACITY	ROD CAPACITY	PRICE
H0731	5"	5/32"	3/8"	\$49.95
H0732	6"	3/16"	7/16"	\$59.95
H0733	8"	3/16"	1/2"	\$74.95
H0734	12"	3/16"	1/2"	\$99.95

### 7 1/2" MINI SHEAR BRAKE

Don't let its size fool you, this is one super heavy-duty combination Mini Shear Brake capable of working with mild steel to 22 gauge thick. Bend and shear with one compact tool, perfect for countless applications. Weighing 28 lbs, this is no light-weight machine.



MODEL G9950 ONLY \$175<sup>00</sup>

### 210-PC. SHEET METAL SCREW ASSORTMENT

Four sizes of Phillips® flat head screws and seven sizes of combo drive pan head screws, all in a convenient plastic case with lift out tray. You will want to keep this one restocked! Sizes range from #4 x 3/4" up to #10 x 2".

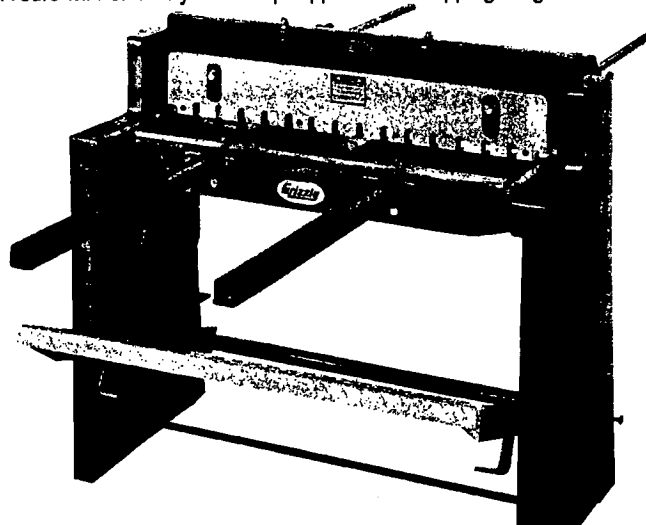
**NEW**

MODEL H0566 ONLY \$3<sup>50</sup>

### 37" FOOT SHEAR

**NEW**

This shear has all the features of its big brother including a cast body, precision ground blade, adjustable stops, smooth foot control and safety guard with hold down, just in a smaller package. This heavy-duty shear is just the right size for those with less room in their shop or not needing the extra capacity. Shear 16-gauge mild steel to 37 inches wide. A sure winner in any workshop. Approximate shipping weight: 800 lbs.

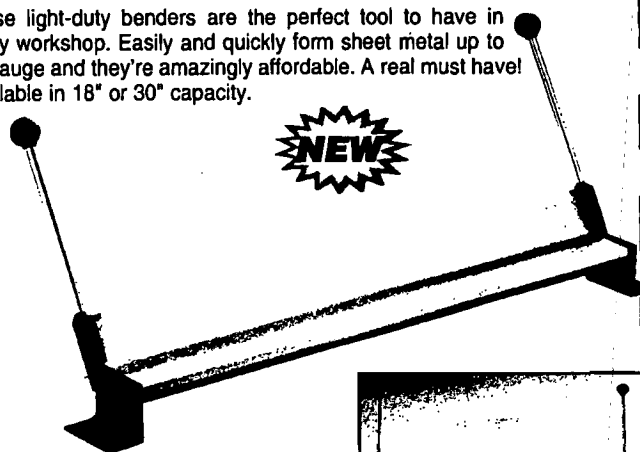


MODEL G9948 ONLY \$775<sup>00</sup>

**\$150**  
ANYWHERE IN LOWER 48 ST.

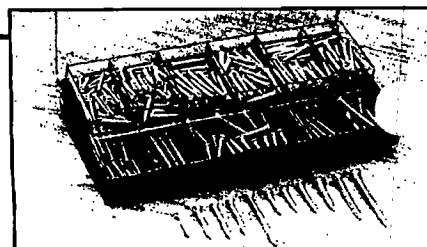
### 18" & 30" MINI MIGHTY BENDERS

These light-duty benders are the perfect tool to have in every workshop. Easily and quickly form sheet metal up to 22 gauge and they're amazingly affordable. A real must have! Available in 18" or 30" capacity.



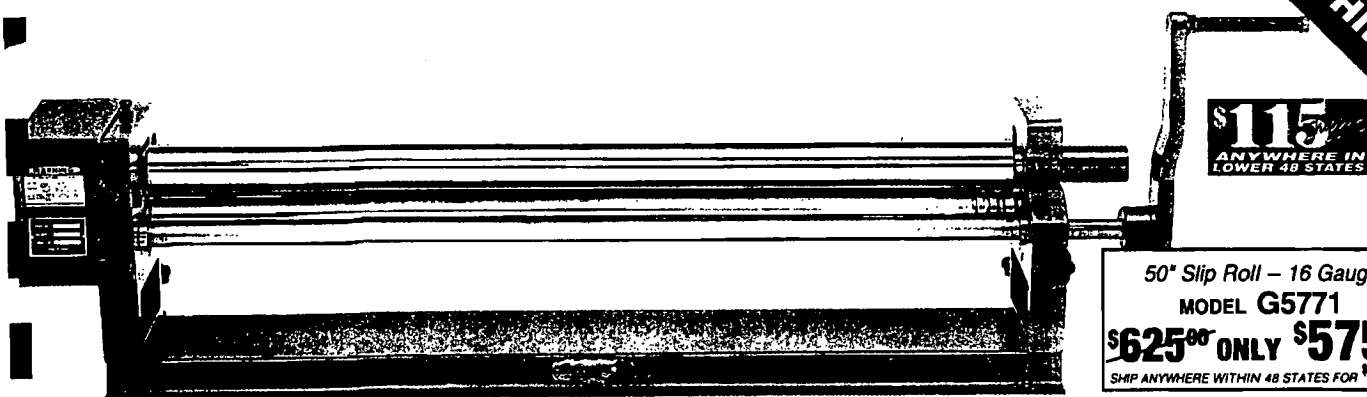
**NEW**

G9951 18" ONLY \$19<sup>95</sup>  
G9952 30" ONLY \$49<sup>95</sup>



## 50" SLIP ROLL - 16 GAUGE

**SHEET METAL  
MACHINES**



**\$115**  
ANYWHERE IN  
LOWER 48 STATES

50" Slip Roll - 16 Gauge  
MODEL G5771  
**\$625<sup>00</sup> ONLY \$575<sup>00</sup>**  
SHIP ANYWHERE WITHIN 48 STATES FOR \$115<sup>00</sup>

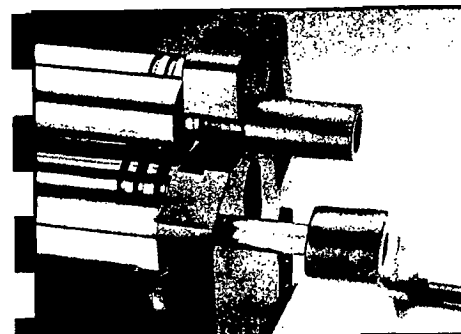
This 50" capacity Slip Roll features 3" ground and polished rolls and handles mild steel up to 16 gauge. All the great features of our 36" version, but designed much heavier to handle greater capacities. In fact, this 500 pound monster features a heavy-duty, sliding-rod clamping mechanism, heavy-duty gearing and bearings.

### FEATURES:

- Precision ground cast iron rollers
- Cast iron frame
- 50" wide capacity
- Quick release top roller
- Hardened steel gearing

### SPECIFICATIONS:

Maximum capacity .....50"  
Minimum roll size .....3"  
Footprint.....55" x 12"  
Gauge .....16 gauge mild steel  
Rod/wire grooves dia.: ..... $\frac{3}{16}$ ",  $\frac{3}{8}$ " &  $\frac{1}{2}$ "  
Approx. ship. weight: .....561 lbs.

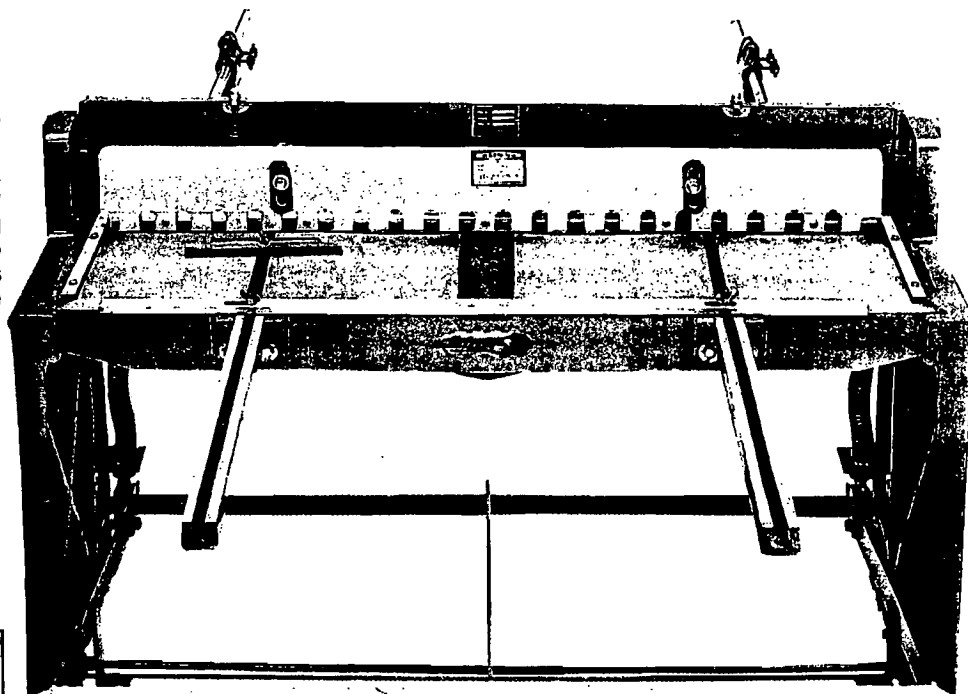


## 52" FOOT SHEAR 16 GAUGE

Cut your work down to size with this heavy-duty shear. Cut up to 52" wide, 16 gauge mild steel with all the precision you'd expect from a machine this size. Features heavy cast iron body with foot control, precision ground blade, spring activated hold down, safety guard and two micro-adjusting rear stop gauges. Also includes table gauges and front extension arms for those really large sheet metal jobs.

52" Shear - 16 Gauge  
MODEL G5772 **\$995<sup>00</sup> ONLY \$895<sup>00</sup>**  
SHIP ANYWHERE WITHIN 48 STATES FOR \$200<sup>00</sup>

**\$200**  
ANYWHERE IN  
LOWER 48 STATES

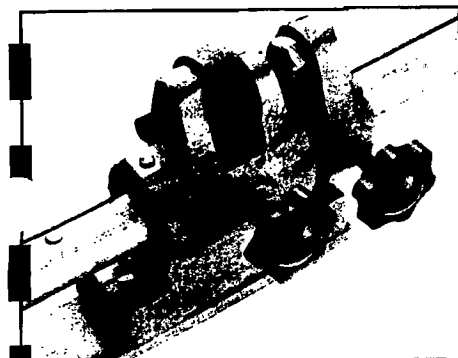


### FEATURES:

- Precision ground cast iron shear
- Cast iron frame
- 52" wide capacity
- Foot control
- Front stops and micro-adjustable rear stops
- Heavy cast iron hold-down clamp

### SPECIFICATIONS:

Maximum capacity .....52"  
Front gauge range.....0" - 12 $\frac{1}{2}$ "  
Back gauge range .....0" - 35"  
Footprint.....59" x 21 $\frac{1}{2}$ "  
Gauge .....16 gauge mild steel  
Approx. ship. weight: .....1235 lbs.

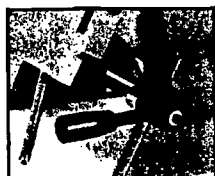
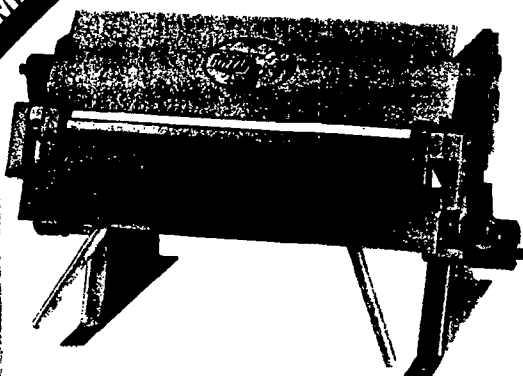


**CALL 24 HOURS A DAY FROM ANYWHERE IN THE U.S.A. 1-800-523-4777**

**375**

**SHEET METAL  
MACHINES**

## 12" BENCH HAND BRAKE



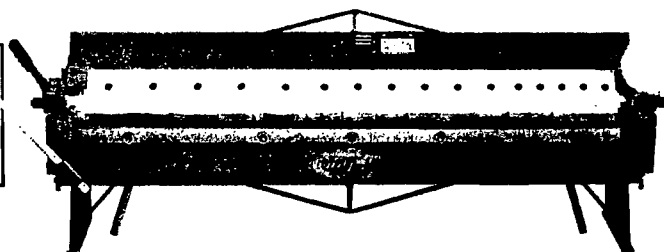
**MODEL G7147**  
**ONLY \$179<sup>95</sup>**

This little wonder is perfect for the home hobbyist and those delicate forming jobs that need a fine touch bending mild steel up to 18 ga. Fully adjustable cams for bending from 0° to 135°. Features ground bed for clean, straight edge forming. Shipping weight approx. 49 lbs.

## 48" PAN & BOX BRAKE – 16 GAUGE



**\$68**  
ANYWHERE IN  
LOWER 48 STATES



This 48" capacity Pan and Box Brake is suitable for many metal forming operations. Hardened steel box fingers include plenty of 2", 3" and 4" sizes and are easily removed or repositioned. The bed and beam are precision aligned and two independent cam action levers raise the beam well above the bed. A large counter balanced handle makes brake operations past 90° to 135° easy for all day use. This bench type Pan and Box Brake is fully trussed for rigidity and long life.

### FEATURES:

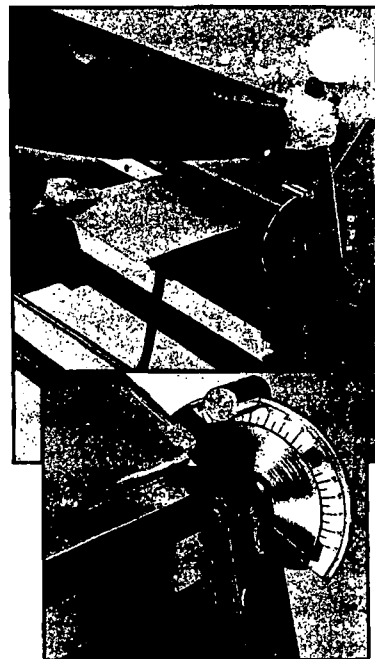
- Hardened steel box fingers
- Left and right beam control levers
- Large counter balanced brake handle
- Brakes from 0° - 135°
- Finger sizes of 2", 3" and 4"
- Fully trussed for strength and precision

### SPECIFICATIONS:

Maximum capacity ..... 48"  
Number of each box finger size:  
2" .....  
3" .....  
4" .....  
Footprint ..... 52" x 12"  
Gauge ..... 16 gauge mild steel  
Construction:  
Brake ..... steel with hardened edge  
Frame ..... cast iron  
Approx. ship. weight: ..... 365 lbs

**MODEL G5769**  
**\$550<sup>00</sup> ONLY \$495<sup>00</sup>**  
SHIP ANYWHERE WITHIN 48 STATES FOR \$68<sup>00</sup>

## 60" HAND BRAKE



Handle big bending jobs in mild steel up to 16 gauge with our 60" Hand Brake. Counter balanced for ease of operation and precision aligned with cam action lever to raise the beam high over the bed. This brake also features angle indicator with adjustable stop for repeated bends.

**\$115**  
ANYWHERE IN  
LOWER 48 STATES

### FEATURES:

- Right hand beam control lever
- Large counter balanced brake handle
- Brakes from 0° - 160°
- Adjustable angle stop

### SPECIFICATIONS:

Maximum capacity ..... 60"  
Footprint ..... 67" x 23 1/2"  
Gauge ..... 16 gauge mild steel  
Construction:  
Brake ..... steel with hardened edge  
Frame ..... cast iron  
Approx. ship. weight: ..... 661 lbs

**MODEL G7150 ONLY \$995<sup>00</sup>**

SHIP ANYWHERE WITHIN 48 STATES FOR \$115<sup>00</sup>

## 6" x 12" SURFACE GRINDER WITH STAND

**SURFACE  
GRINDER**

For years our customers have been asking us to carry a surface grinder at our great Grizzly price. We are happy to oblige! This 6" x 12" surface grinder has many features found on much larger machines and is perfect for the small tool room and metalworking enthusiast. When absolute surface grinding precision is needed in tough to machine materials, this is the machine to own. Large dials and fine thread screws yield maximum precision. Bring mirror-like finishes to your metalworking projects with this professional machine. Check out the many features below.

### FEATURES:

- Super slide table
- Enclosed cabinet style stand
- Guard
- One shot lubrication
- Diamond wheel dresser with holder
- Tool Box
- Wheel balancing kit
- Single phase 3450 RPM motor

### SPECIFICATIONS:

- Table surface: 6" x 12"
- Longitudinal travel: 13 1/4"
- Cross travel: 7 1/8"
- Maximum distance table to wheel: 8 7/8"
- Center minimum: 3 1/2"
- Column dial: .001" Res/Rev .05"
- Cross dial: .001" Res/Rev .1"
- T-slot: 1/2" x 3/4" x 15 1/2"
- Grinding wheel: 7" D x 1 1/4" B x 1/2" W
- Height: 64"
- Width: 36 1/2"
- Depth: 33"
- Motor: 3/4 H.P., 110/220V, 7.4/3.7 Amps, prewired 110V
- Shipping weight approx.: 660 lbs.

PRECISION  
HANDWHEELS

GUARD

ONE SHOT  
LUBRICATION

6" x 12"  
SLIDING  
TABLE

HEAVY-DUTY STAND  
WITH LOCKER

**\$115**  
ANYWHERE IN  
LOWER 48 STATES

Surface Grinder with Stand

MODEL G5963

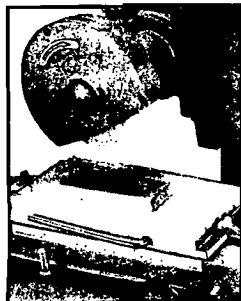
**\$1495<sup>00</sup> ONLY \$1395<sup>00</sup>**

SHIP ANYWHERE WITHIN 48 STATES FOR \$115<sup>00</sup>

## OPTIONAL EQUIPMENT

### MAGNETIC CHUCK

This magnetically controlled chuck holds fast with just the turn of a wrench. No clamps to interfere with the grinding wheel. Measures 5 1/8" W x 11 1/4" L x 1 1/8" H and includes wrench and all clamping hardware.



MODEL G6532 ONLY **\$199<sup>95</sup>**

### MAGNETIC V-BLOCK SET



For use with magnetic chucks, these V-block sets are precision ground and secure in any position. Fine laminated construction transfers full magnetism from magnetic chuck to workpiece. Each measures 1 7/8" x 2 3/8" x 4 3/8".

MODEL G5657 ONLY **\$49<sup>95</sup>**

### GRINDING WHEELS

White aluminum oxide grinding wheels are designed to remove metal and then chip off to expose new cutting surfaces. Type 1 wheels.



MODEL G7431	7 X 1/2" X 1 1/4", 46 grit	ONLY	<b>\$6.95</b>
MODEL G7432	7 X 1/2" X 1 1/4", 60 grit	ONLY	<b>\$6.95</b>
MODEL G7433	7 X 1/2" X 1 1/4", 46 grit	ONLY	<b>\$8.95</b>
MODEL G7434	7 X 1/2" X 1 1/4", 60 grit	ONLY	<b>\$8.95</b>
MODEL G6518	Adapter	ONLY	<b>\$29.95</b>

CALL 24 HOURS A DAY FROM ANYWHERE IN THE U.S.A. 1-800-523-4777

377

# SURFACE GRINDER

**INCLUDES  
A 6" x 18"  
MAGNETIC CHUCK!**

## 6" x 18" SURFACE GRINDER

Make no mistake, this is one serious surface grinder with features you'd expect to find on higher priced models. For example, this machine has a dynamically balanced motor with a high precision bearing spindle that has less than .0008" runout, wide table su, with 1/2" ball bearing slides, cogged timing belt for precision table movement and automatic and continuous lubrication. It also features a large tool storage cabinet, 8-gallon coolant system and large, easy to read zero setting dials. Check out all the other features below.

### FEATURES:

- Complete coolant system
- Super slide table
- Enclosed cabinet style stand
- Swarf guards
- Three phase, 2 HP, 110/220V motor prewired to 220V
- Adjustable table stops and cross feed lock
- 300 pound table capacity
- Includes:
  - Balancing arbor
  - Halogen Work lamp
  - Grinding wheel and wheel flanges
  - Leveling blocks
  - Wheel extracting tool
  - 6" x 18" MAGNETIC CHUCK

### SPECIFICATIONS:

- Table surface: 6" x 18"
- Grinding capacity: 7" x 19"
- Longitudinal travel: 20"
- Cross travel: 7 1/4"
- Spindle centerline to table: 18"
- .0005" graduation cross feed handwheel
- .200" cross travel per handwheel revol
- .0001" graduation vertical feed handwheel
- .050" vertical travel per handwheel revolution
- Spindle speed: 3450 RPM
- Three phase, 2 HP, 110/220V motor prewired to 220V
- Grinding wheel: 8" x 3/4" x 1 1/4" bore
- Shipping weight approx.: 1630 lbs.

**\$200**  
ANYWHERE IN  
LOWER 48 STATES

**\$12.95**  
Per Month O.A.C.

6" x 18" Surface Grinder

MODEL G8591 ONLY **\$4995.00**

SHIP ANYWHERE WITHIN 48 STATES FOR **\$200\*\***

## OPTIONAL EQUIPMENT

### GRINDING WHEELS

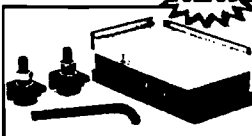
White aluminum oxide grinding wheels are designed to remove metal and then chip off to expose new cutting surfaces. Type 1 wheels.



MODEL G7437 8 X 3/4" X 1 1/4", 46 grit **ONLY \$12.95**  
MODEL G7438 8 X 3/4" X 1 1/4", 60 grit **ONLY \$12.95**

### MAGNETIC CHUCKS

Hold all ferrous work material with a force of 170 - 213 pounds per square inch, making them suitable for most light milling and grinding operations. Solid top and base plates assure accuracy and the quick release levers make production work a breeze.



G9365 4" x 7" **\$129.95**  
G9366 6" x 12" **\$199.95**  
G9367 8" x 20" **\$345.00**  
G9368 10" x 15" **\$595.00**

### ROUND MAGNETIC CHUCKS

These Circular Permanent Magnetic Chucks are used for holding ferrous metal in grinders, lathes or for holding benchwork. Chuck key holds and releases work just like a conventional chuck. Choose 6", 8" or 10" diameters.



G9369 6" **\$149.95**  
G9370 8" **\$225.00**  
G9371 10" **\$325.00**

## INDUSTRIAL DRILL PRESSES

### RADIAL DRILL

#### WITH REVERSIBLE MOTOR

There's plenty of cast iron where it counts in this quality built unit. From the rigid cast iron column to the massive base and arm casting, our radial drill has what it takes to give you years of trouble-free service. Dovetailed radial slide, hand scraped head casting, box table and cross slide table are just some of the features you don't have to pay extra for. This is a nice solid unit!

#### FEATURES:

- Cross slide table
- Box table
- Positive locks
- Head rotates 360°
- Hand scraped head casting
- Surface ground table and base
- 1/2" chuck
- Reversible motor

Radial Drill Press

MODEL G5777

**\$995<sup>00</sup> ONLY \$895<sup>00</sup>**

SHIP ANYWHERE WITHIN 48 STATES FOR \$115<sup>00</sup>

LIMITED QUANTITY AVAILABLE

**\$115<sup>00</sup>**  
ANYWHERE IN  
LOWER 48 STATES

**SEE A  
COMPLETE  
SELECTION OF DRILL  
PRESSES ON PAGES  
60-63**

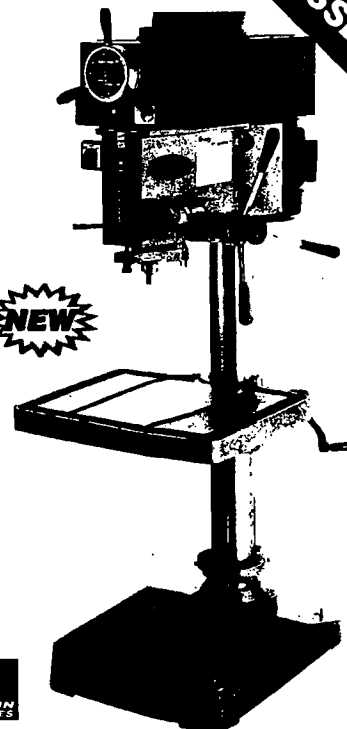
### DRILL PRESS

Incredible! Variable Speed Drill Press wired for single phase! This is unmatched convenience and great time saver is ideal for shops not having 3 phase. And this brute is built with enough beef to tackle the most challenging jobs you can throw at a drill press. Just take a look at these specs! This is a must have machine when time and ease of use is the issue.

#### SPECIFICATIONS:

Swing: ..... 19 1/4"  
Column Diameter: ..... 4 1/2"  
Spindle Travel: ..... 6 1/16"  
Spindle to Table Distance: ..... 28 3/4"  
Spindle to Base: ..... 50 1/4"  
Spindle Taper: ..... MT-3  
Spindle Speeds: ..... 300-2000 RPM  
Motor (Single Phase): ..... 1 1/2 H.P.  
Table Size: ..... 21 1/4" x 18 1/2"  
Approx. ship. weight: ..... 685 lbs.

**NEW**



**\$115<sup>00</sup>**  
ANYWHERE IN  
LOWER 48 STATES

Drill Press

MODEL G9749 ONLY **\$1,550<sup>00</sup>**

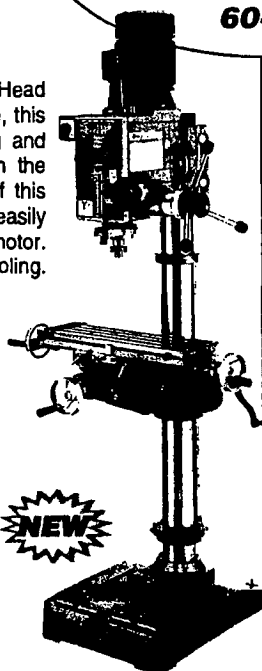
SHIP ANYWHERE WITHIN 48 STATES FOR \$115<sup>00</sup>

### DRILL PRESS WITH CROSS TABLE

This is an excellent buy in heavy duty Gear Head Drill Press. Equipped with a cross sliding table, this machine is robust enough for milling, drilling and boring. And the Gear Head is adjustable on the column! This feature expands the capacity of this machine. You can change speeds quickly and easily by lever action gear controls and a 2 speed motor. Equipped with drawbar for threaded end-mill tooling.

#### SPECIFICATIONS:

Motor size: ..... 1 H.P., 3 Phase  
Voltage: ..... 220V  
Switch & wiring: ..... Reversible 220V  
Overall height: ..... 77 1/2"  
Spindle travel: ..... 5 1/8"  
Number of speeds: ..... 12  
Spindle taper: ..... MT #3  
Range of speeds: ..... 60 - 3000 RPM  
Swing: ..... 20 1/2"  
Drilling capacity: ..... 1 1/4" in Mild Steel  
Cross table size: ..... 23" x 7 1/2"  
Longitudinal travel: ..... 13 3/4"  
Spindle travel: ..... 7 1/8"  
Approx. ship. weight: ..... 682 lbs.



**NEW**

Drill Press

MODEL G9746 ONLY **\$2495<sup>00</sup>**

SHIP ANYWHERE WITHIN 48 STATES FOR \$115<sup>00</sup>

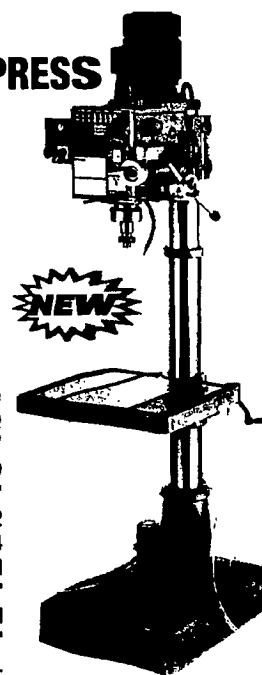
**\$115<sup>00</sup>**  
ANYWHERE IN  
LOWER 48 STATES

### HEAVY-DUTY GEAR HEAD DRILL PRESS

This feature-packed machine is ready for your shop! This heavy duty Gear Head Drill Press comes with a coolant pump, power down feed, tapping control box and easy selection speed controls. What's more, the gear head can be repositioned along the column for expanded capacity when work is mounted on the base. Designed to withstand the most demanding jobs.

#### SPECIFICATIONS:

Motor size: ..... 1 1/2 H.P., 3 Phase  
Voltage: ..... 220V/3Q  
Switch & wiring: ..... Reversing/220V  
Overall height: ..... 89  
Spindle travel: ..... 5"  
Number of speeds: ..... 12  
Spindle taper: ..... MT #4  
Range of speeds: ..... 60 - 3000 RPM  
Swing: ..... 20 1/2"  
Drilling capacity: ..... 1 1/4" in Mild Steel  
Table size: ..... 21 1/4" x 18 1/2"  
Approx. ship. weight: ..... 682 lbs.



**NEW**

Drill Press

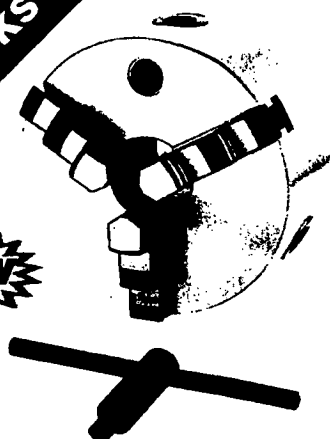
MODEL G9747 ONLY **\$3695<sup>00</sup>**

SHIP ANYWHERE WITHIN 48 STATES FOR \$115<sup>00</sup>

**\$115<sup>00</sup>**  
ANYWHERE IN  
LOWER 48 STATES

# LATHE CHUCKS

**NEW**

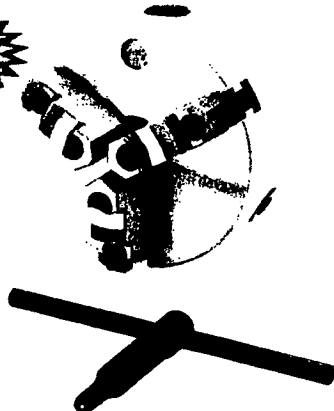


## THREE-JAW, PLAIN BACK SCROLL CHUCKS

These 3-jaw, self centering chucks feature semi-steel bodies with plain backs. Each includes two sets of jaws, wrench and mounting screws. G9586 Chuck thickness is 2". G9587 Chuck thickness is 2 5/8". G9588 Chuck thickness is 3". Requires mounting plate. For those of you that are not familiar with chuck mounting, "plain back" means a backing plate is required to mount the chuck to your lathe. Since there are so many different types of spindles on lathes, you would require a back plate that fits your lathe spindle and then mount the chuck to the plate. The mounting bolts go through the back of plate into the back of the chuck, usually on the edge of the chuck since there is a scroll mechanism for self centering the jaws.

MODEL	SIZE	THROUGH HOLE	PRICE
G9586	4" 3-Jaw Chuck	7/8"	\$69 <sup>95</sup>
G9587	6" 3-Jaw Chuck	1 1/16"	\$109 <sup>95</sup>
G9588	8" 3-Jaw Chuck	2 1/2"	\$149 <sup>95</sup>

**NEW**

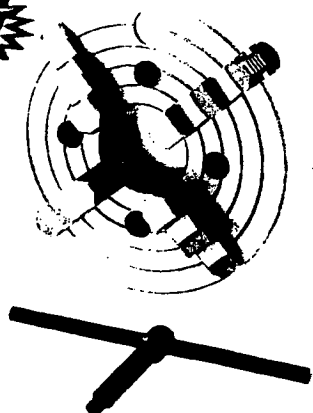


## THREE-JAW, PLAIN BACK SCROLL CHUCKS WITH 2-PC. JAWS

These top quality chucks have semi-steel bodies and come with reversible set of hardened 2-piece jaws. They are self centering and have plain backs. Requires mounting plate.

MODEL	SIZE	THROUGH HOLE	PRICE
G9828	3" 3-Jaw Plain Back Scroll Chuck	5/8"	\$59 <sup>95</sup>
G9829	4" 3-Jaw Plain Back Scroll Chuck	.865"	\$69 <sup>95</sup>
G9830	5" 3-Jaw Plain Back Scroll Chuck	1.18"	\$79 <sup>95</sup>
G9831	6" 3-Jaw Plain Back Scroll Chuck	1.57"	\$129 <sup>95</sup>
G9832	8" 3-Jaw Plain Back Scroll Chuck	2.55"	\$169 <sup>95</sup>
G9833	10" 3-Jaw Plain Back Scroll Chuck	3.15"	\$249 <sup>95</sup>

**NEW**



## FOUR-JAW, PLAIN BACK INDEPENDENT CHUCKS

"Independent" means that each jaw moves independently. Such 4-jaw chucks are used for holding odd shaped pieces or where zero tolerance is required. These 4-jaw chucks have semi-steel bodies and hardened reversible jaws. Requires mounting plate. Note the mounting holes through the front of the chuck. This is because each jaw moves independently and there is no scroll in the middle.

MODEL	SIZE	THROUGH HOLE	PRICE
G9864	3" 4-Jaw Plain Back Independent Chuck	.86"	\$49 <sup>95</sup>
G9865	6" 4-Jaw Plain Back Independent Chuck	1 1/2"	\$69 <sup>95</sup>
G9866	8" 4-Jaw Plain Back Independent Chuck	1 15/16"	\$89 <sup>95</sup>
G9867	10" 4-Jaw Plain Back Independent Chuck	2 1/2"	\$99 <sup>95</sup>
G9868	12" 4-Jaw Plain Back Independent Chuck	3 1/2"	\$119 <sup>95</sup>
G9869	16" 4-Jaw Plain Back Independent Chuck	3 3/4"	\$189 <sup>95</sup>

**NEW**



## FOUR-JAW, PLAIN BACK SCROLL CHUCKS WITH 2-PC. JAWS

"Scroll" means that all jaws close together and are self centering. These 4-jaw chucks have semi-steel bodies and hardened 2-piece reversible jaws. 4-jaw self centering chucks have a firmer hold on the workpiece and also allow you to grip square pieces without switching chucks. Requires mounting plate.

MODEL	SIZE	THROUGH HOLE	PRICE
G9834	5" 4-Jaw Plain Back Scroll Chuck	1.81"	\$139 <sup>95</sup>
G9835	6" 4-Jaw Plain Back Scroll Chuck	1.575"	\$169 <sup>95</sup>
G9836	8" 4-Jaw Plain Back Scroll Chuck	2.55"	\$199 <sup>95</sup>
G9837	10" 4-Jaw Plain Back Scroll Chuck	3.15"	\$279 <sup>95</sup>



**NEW**

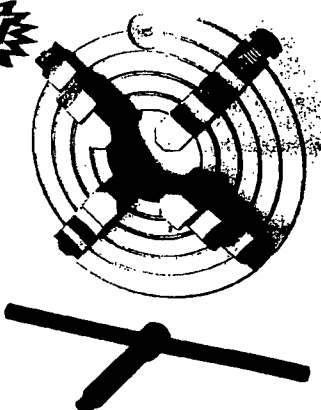


## THREE-JAW, DIRECT MOUNT SCROLL CHUCKS

These direct mount chucks come with the studs in the back and fit directly into your lathe cam-lock. The bodies are made of semi-steel and the jaws are hardened. Each chuck comes with 2 sets of jaws (inside and outside). Jaws are self-centering. See the 4-jaw chucks below for definition of "Direct Mount".

MODEL	SIZE	THROUGH HOLE	PRICE
G9818	6" 3-Jaw Scroll Chuck D1-3	1.575"	\$169 <sup>95</sup>
G9819	6" 3-Jaw Scroll Chuck D1-4	1.575"	\$169 <sup>95</sup>
G9820	6" 3-Jaw Scroll Chuck D1-5	1.575"	\$169 <sup>95</sup>
G9821	8" 3-Jaw Scroll Chuck D1-4	1.969"	\$219 <sup>95</sup>
G9822	8" 3-Jaw Scroll Chuck D1-5	1.969"	\$219 <sup>95</sup>
G9823	8" 3-Jaw Scroll Chuck D1-6	1.969"	\$219 <sup>95</sup>
G9824	10" 3-Jaw Scroll Chuck D1-6	2.75"	\$295 <sup>95</sup>

**NEW**



## FOUR-JAW, DIRECT MOUNT INDEPENDENT CHUCKS

These direct mount 4-jaw chucks feature jaws that move independently. Each chuck comes with studs in the back and hardened reversible jaws. Bodies are made of semi-steel. D1-4, 5, 6 and 8 are types of spindles found on certain metal lathes. They are a cam-lock style mount that requires the chucks to have appropriate sized cam-lock studs. These studs fit into the cam-lock holes in the spindle and lock into place very precisely. Cam-lock mounts are known for being accurate.

MODEL	SIZE	THROUGH HOLE	PRICE
G9825	8" 4-Jaw Independent Chuck D1-4	2.165"	\$129 <sup>95</sup>
G9826	10" 4-Jaw Independent Chuck D1-5	2.953"	\$149 <sup>95</sup>
G9827	10" 4-Jaw Independent Chuck D1-6	2.953"	\$149 <sup>95</sup>
G9870	12" 4-Jaw Independent Dir. Chuck D1-6	3.74"	\$199 <sup>95</sup>
G9871	16" 4-Jaw Independent Dir. Chuck D1-8	4.92"	\$269 <sup>95</sup>

**NEW**



## SIX-JAW, PLAIN BACK SCROLL CHUCKS

6-jaw chuck are excellent for holding and machining thin walled workpieces. Deformation of the workpiece is reduced and grinding accuracy and finish are greatly improved. Bodies are made of semi-steel and each chuck comes with 2 sets of hardened jaws. Jaws are self-centering. Requires mounting plate.

MODEL	SIZE	THROUGH HOLE	PRICE
G9852	4" 6-Jaw Scroll Chuck	1"	\$129 <sup>95</sup>
G9853	5" 6-Jaw Scroll Chuck	1.37"	\$139 <sup>95</sup>
G9854	6" 6-Jaw Scroll Chuck	1.65"	\$199 <sup>95</sup>
G9855	8" 6-Jaw Scroll Chuck	2.55"	\$229 <sup>95</sup>

**NEW**



## SIX-JAW, HIGH PRECISION RUN TRUE SCROLL CHUCKS

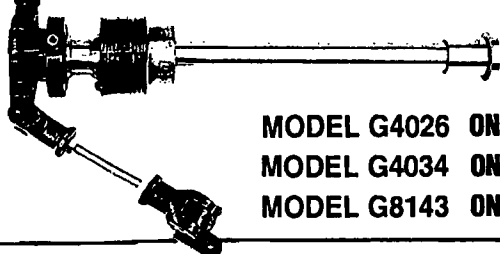
"Run true" chucks are the best chucks you can buy. Every part is machined to precise tolerances and repeatable concentricity is maintained. Unique micro adjustment feature enables repeatable accuracy to within 0.0005" (half a thousandths of an inch). Scroll and jaws are hardened and ground. Includes 2-piece jaws. These chucks feature semi-steel bodies and self centering jaws. Requires mounting plate.

MODEL	SIZE	THROUGH HOLE	PRICE
G9856	6" 6-Jaw High Precision Scroll Chuck	1.53"	\$279 <sup>95</sup>
G9857	8" 6-Jaw Precision Scroll Chuck	2.26"	\$329 <sup>95</sup>
G9858	10" 6-Jaw Precision Scroll Chuck	2.83"	\$499 <sup>95</sup>

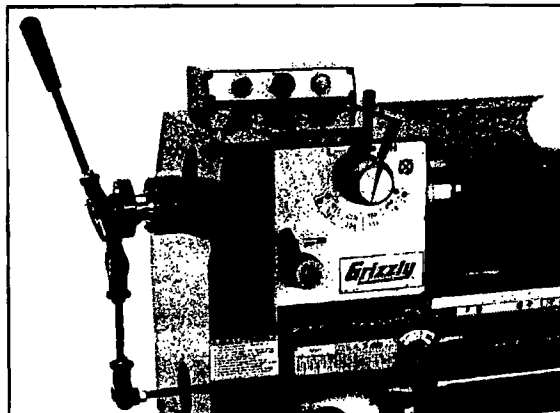
# LATHE ACCESSORIES

## COLLET ATTACHMENTS

Quick change collet attachment fits 5-C collets. G4026 fits Model G4002 & G4003 lathes. G4034 fits Model G4016 lathe. G8143 fits Model G5960 and G7958.

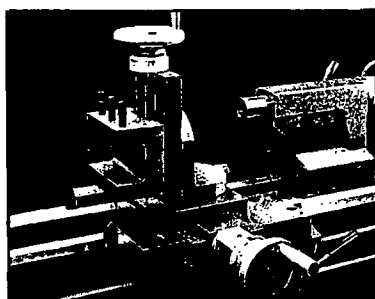


MODEL G4026 ONLY \$299<sup>95</sup>  
MODEL G4034 ONLY \$299<sup>95</sup>  
MODEL G8143 ONLY \$425<sup>00</sup>



## MILLING ATTACHMENT

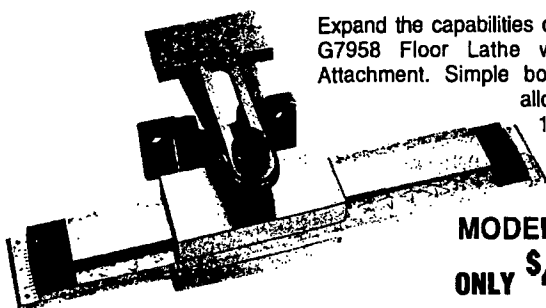
Add another dimension to your lathe with this milling attachment: slotting, face milling, drilling, and 3-axis positioning. Simple modification necessary for attachment. Base measures: 4½" O.D. 2 mounting holes spaced 3.610" between centers. Stud measures .982" dia. and is replaceable. Fits Model G1031, G1001, G1002 and G1003 only.



MODEL G1080 ONLY \$189<sup>50</sup>

## TAPER ATTACHMENT FOR G5960/G7958

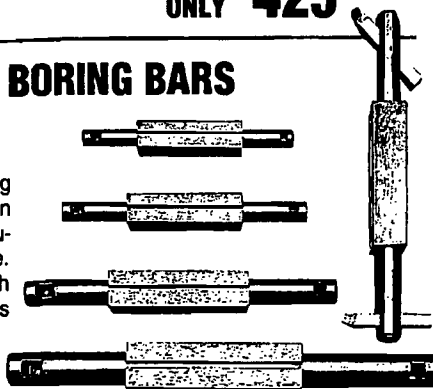
Expand the capabilities of your G5960 or G7958 Floor Lathe with this Taper Attachment. Simple bolt-on installation allows tapers up to 15" in length.



MODEL G8142 ONLY \$425<sup>00</sup>

## DOUBLE-ENDED BORING BARS W/ HOLDER

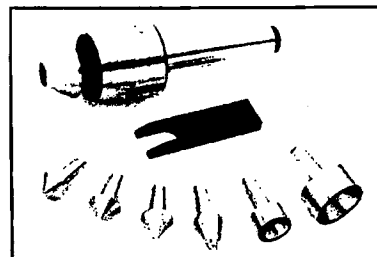
We offer high quality boring bars that for years have been overpriced by other distributors and not readily available. Furnished complete with square holders, these bars can take a tool bit at 90° and another at 45°.



MODEL	HOLDER	BAR	BIT	PRICE
G1343	½" Sq.	4½" Long	⅛"	\$10.95
G1344	⅝" Sq.	5¼" Long	⅜"	\$12.95
G1345	¾" Sq.	6¾" Long	¼"	\$14.95
G1346	1" Sq.	9¼" Long	⅝"	\$17.95

## MT #3 LIVE CENTER SET

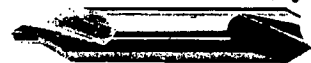
A super blend of quality and convenience, this MT #3 Live Center Set offers seven interchangeable tips. High-quality needle bearings prolong tool life and special tool steel body and tips are precision ground. Supplied in molded case.



MODEL G1070 ONLY \$89<sup>95</sup>

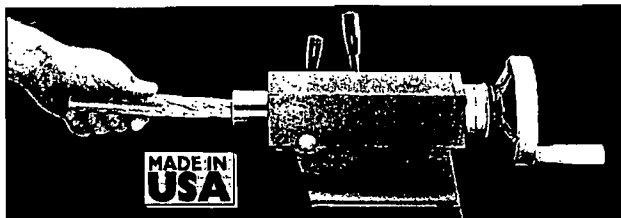
## H.S.S. GROUND CENTER DRILLS

These double ended High Speed Steel Center Drills are precision ground for unsurpassed accuracy.



MODEL	DIA.	TOTAL LENGTH	WORKING LENGTH	PRICE
G9311	⅛"	1 <sup>25</sup> / <sub>64</sub> "	5 <sup>32</sup> / <sub>32</sub> "	ONLY 79¢
G9312	5 <sup>64</sup> / <sub>64</sub> "	1 <sup>37</sup> / <sub>64</sub> "	13 <sup>64</sup> / <sub>64</sub> "	ONLY 99¢
G9313	3 <sup>32</sup> / <sub>32</sub> "	1 <sup>49</sup> / <sub>64</sub> "	1 <sup>4</sup> / <sub>4</sub> "	ONLY 99¢
G9314	⅛"	1 <sup>31</sup> / <sub>32</sub> "	5 <sup>16</sup> / <sub>16</sub> "	ONLY \$1.99
G9315	5 <sup>32</sup> / <sub>32</sub> "	2 <sup>13</sup> / <sub>64</sub> "	25 <sup>64</sup> / <sub>64</sub> "	ONLY \$3.95
G9316	13 <sup>64</sup> / <sub>64</sub> "	2 <sup>31</sup> / <sub>64</sub> "	31 <sup>64</sup> / <sub>64</sub> "	ONLY \$4.95
G9317	¼"	2 <sup>51</sup> / <sub>64</sub> "	5 <sup>8</sup> / <sub>8</sub> "	ONLY \$1.09

## TAPER-MATE™ CLEANERS

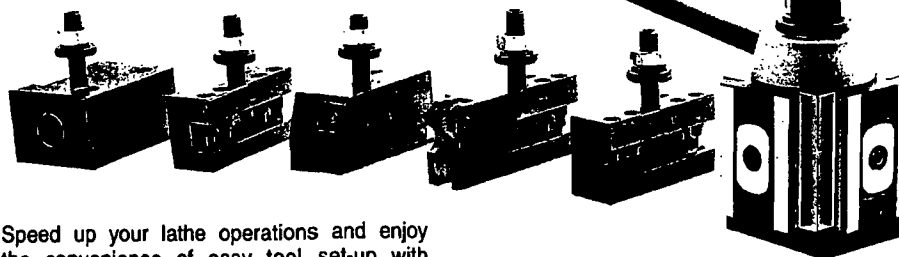


High visibility taper socket cleaners remove oil and grit completely and efficiently so tapered tools stay put like they were designed.

No more damage from a rag and screwdriver.

MODEL	TYPE	PRICE
G5929	R-8	\$9.95
G5930	MT #1	\$12.95
G5931	MT #2	\$13.95
G5932	MT #3	\$14.95

## QUICK CHANGE TOOL POST SETS



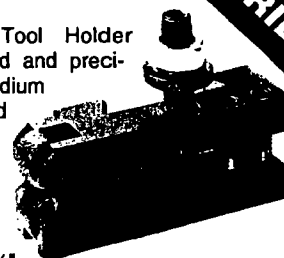
Speed up your lathe operations and enjoy the convenience of easy tool set-up with these Quick Change Tool Post Sets\*. Tool posts feature piston type mechanism and come with five tool holders including: turning holder, knurling/turning holder, parting tool holder, boring bar holder and boring/turning holder. All milled surfaces are hardened and precision ground for repeatable accuracy.

\*Each set comes with a blank T-nut which requires machining to fit your lathe.

MODEL	SERIES	LATHE SIZE	PRICE
G5689	100	10" Swing	\$199.95
G5690	200	12" to 14" Swing	\$249.95
G5691	300	13" to 15" Swing	\$349.95
G9710	400	14" to 20" Swing	\$399.95

## KNURLING TOOL HOLDERS

Dual purpose Tool Holder features hardened and precision ground medium knurls on one end and tool bit holder on the other end. Series 100 accepts  $\frac{3}{16}$ "- $\frac{1}{2}$ " tool bits. Series 200 accepts  $\frac{1}{4}$ "- $\frac{5}{8}$ " tool bits. Series 300 accepts  $\frac{1}{2}$ "- $\frac{3}{4}$ " tool bits.



MODEL	SERIES	PRICE
G5698	100	\$29.95
G5705	200	\$32.95
G5712	300	\$49.95
G9707	400	\$59.95

## BORING BAR HOLDERS



Boring bar  
not included.

Heavy boring bar holders grip tightly with no chatter. Each features a split bushing to accommodate smaller boring bars. G5694 accepts  $\frac{3}{8}$ " and  $\frac{1}{2}$ " boring bars, G5701 and G5708 accepts  $\frac{3}{4}$ " and 1" boring bars.

MODEL	SERIES	PRICE
G5694	100	\$27.95
G5701	200	\$27.95
G5708	300	\$37.95
G9704	400	\$49.95

## PARTING TOOL HOLDERS

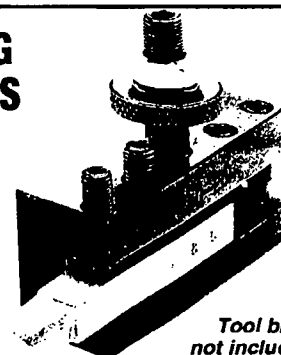


Parting tool  
not included.

Wedge type clamping system holds bevel as well as T-cut parting tools securely in place with no vibration. Slim profile allows parting close to the chuck.

MODEL	SERIES	PRICE
G5697	100	\$29.95
G5704	200	\$29.95
G5711	300	\$39.95
G9706	400	\$49.95

## TURNING HOLDERS

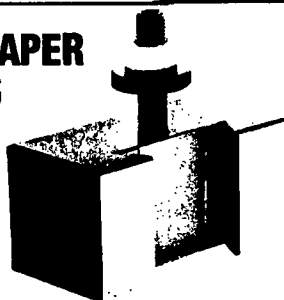


Tool bit  
not included.

Hold turning and facing tool bits at the same time. Series 100 accepts  $\frac{3}{16}$ "- $\frac{1}{2}$ " tool bits. Series 200 accepts  $\frac{1}{4}$ "- $\frac{5}{8}$ " tool bits. Series 300 accepts  $\frac{1}{2}$ "- $\frac{3}{4}$ " tool bits.

MODEL	SERIES	PRICE
G5692	100	\$19.95
G5699	200	\$19.95
G5706	300	\$29.95
G9708	400	\$49.95

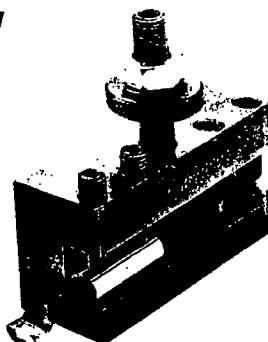
## MORSE TAPER HOLDERS



Mount your Morse Taper drills in this tool holder and take advantage of your lathe's carriage power feed instead of using the tailstock.

MODEL	TYPE	SERIES	PRICE
G5695	MT #2	100	\$27.95
G5702	MT #2	200	\$29.95
G5709	MT #2	300	\$32.95
G5696	MT #3	100	\$44.95
G5703	MT #3	200	\$49.95
G5710	MT #3	300	\$49.95
G9705	MT #3	400	\$49.95
G9709	MT #4	400	\$49.95

## TURNING/ BORING HOLDERS



Milled V-groove secures round shank tool bits as well as square tool bits. Series 100 accepts  $\frac{7}{16}$ " shank and  $\frac{3}{16}$ "- $\frac{1}{2}$ " tool bits. Series 200 accepts  $\frac{1}{2}$ " shank and  $\frac{1}{4}$ "- $\frac{5}{8}$ " tool bits. Series 300 accepts  $\frac{3}{4}$ " shank and  $\frac{1}{2}$ "- $\frac{3}{4}$ " tool bits.

MODEL	SERIES	PRICE
G5693	100	\$19.95
G5700	200	\$21.95
G5707	300	\$29.95
G9703	400	\$39.95

## TURNING TOOL HOLDERS

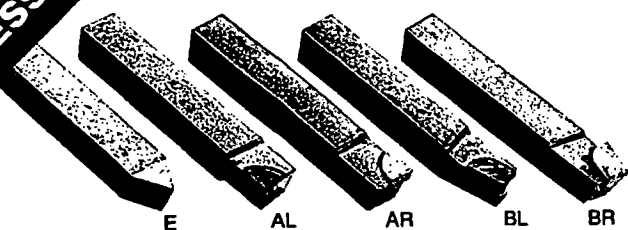


Precision machined straight turning tool holders are heat treated and hardened alloy steel for heavy-duty use. Square setscrew is also heat treated and made of alloy steel. Includes wrench.

MODEL	SIZE	BIT SIZE	PRICE
G6801	$\frac{5}{16}$ " x $\frac{1}{2}$ " x 4"	$\frac{1}{8}$ " x $\frac{1}{8}$ "	\$6.95
G6802	$\frac{5}{16}$ " x $\frac{3}{4}$ " x 4 $\frac{1}{2}$ "	$\frac{3}{16}$ " x $\frac{3}{16}$ "	\$7.49
G6803	$\frac{3}{8}$ " x $\frac{7}{8}$ " x 5"	$\frac{1}{4}$ " x $\frac{1}{4}$ "	\$7.95
G6804	$\frac{1}{2}$ " x 1 $\frac{1}{8}$ " x 6"	$\frac{5}{16}$ " x $\frac{5}{16}$ "	\$10.95
G6805	$\frac{5}{8}$ " x 1 $\frac{3}{8}$ " x 7"	$\frac{3}{8}$ " x $\frac{3}{8}$ "	\$12.49

## LATHE ACCESSORIES

### CARBIDE-TIPPED TOOL BITS

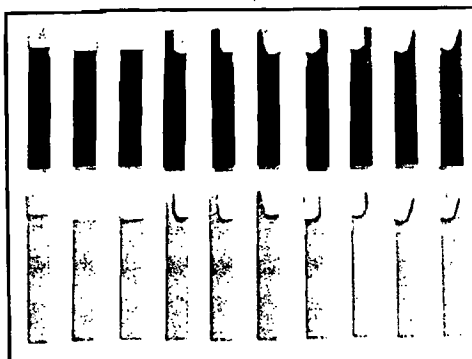


For general machining operations, these carbide tipped tool bits feature C-5/C-6 carbide for cutting steel and steel alloys. For 1/4", 5/16", 3/8" and 1/2" tool holders.

MODEL	SIZE	TYPE	PRICE	MODEL	SIZE	TYPE	PRICE
G5658	1/4"	AR-4	\$1.79	G5668	3/8"	AR-6	\$1.89
G5659	1/4"	AL-4	\$1.79	G5669	3/8"	AL-6	\$1.89
G5660	1/4"	BR-4	\$1.79	G5670	3/8"	BR-6	\$1.89
G5661	1/4"	BL-4	\$1.79	G5671	3/8"	BL-6	\$1.89
G5662	1/4"	E-4	\$1.79	G5672	3/8"	E-6	\$1.89
G5663	5/16"	AR-5	\$1.89	G5673	1/2"	AR-8	\$1.99
G5664	5/16"	AL-5	\$1.89	G5674	1/2"	AL-8	\$1.99
G5665	5/16"	BR-5	\$1.89	G5675	1/2"	BR-8	\$1.99
G5666	5/16"	BL-5	\$1.89	G5676	1/2"	BL-8	\$1.99
G5667	5/16"	E-5	\$1.89	G5677	1/2"	E-8	\$1.99

### CARBIDE-TIPPED TOOL BIT SETS

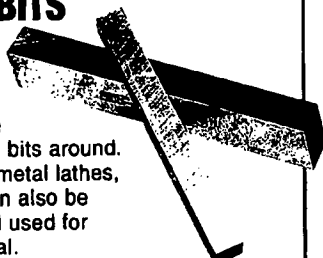
An exceptional value for carbide lathe tool bits! Twenty-piece sets offer tremendous savings over bits sold individually, plus every type is duplicated and ready at hand when you need it. The carbide is C-6 grade for cutting steel and alloys.



MODEL	SIZE	PRICE
G9775	1/4" 20-Pc.	\$14.25
G9776	3/8" 20-Pc.	\$18.25
G9777	1/2" 20-Pc.	\$29.95

### HSS TOOL BITS

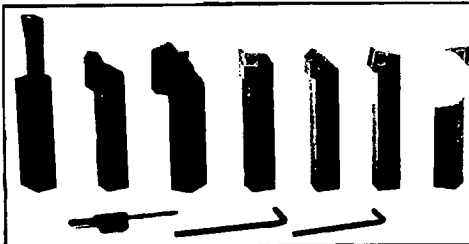
Our ground tool bits are M-2 HSS, making them some of the most durable tool bits around. Usually used on metal lathes, these tool bits can also be ground down and used for engraving in metal.



MODEL	SIZE	PRICE
G2526	1/8"	\$2.95
G1506	3/16"	\$2.95
G1507	1/4"	\$3.25
G1508	5/16"	\$4.25
G1509	3/8"	\$4.95

### 7-PC. DELUXE TOOLHOLDER SET

Deluxe Toolholder Set features seven 5/8" indexable tools for one unbelievable price. Set includes left and right hand toolholders with 0° side cutting angle and 80° diamond inserts, right hand



toolholder with 15° end and side cutting angle and square insert, right hand toolholder with 45° end cutting angle and square insert, right hand boring bar with 5° side cutting angle and 80° diamond insert, right hand threading tool with trigon insert and right hand parting tool. Wrenches included.

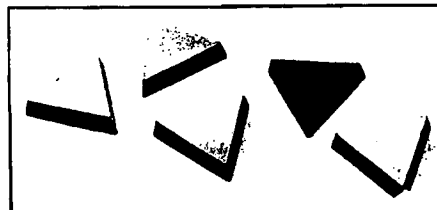
**MODEL G8787 ONLY \$69<sup>95</sup>**

#### REPLACEMENT CARBIDE INSERTS (Packs of 5)

MODEL	TYPE	PRICE	MODEL	TYPE	PRICE
G8788	Square	\$14.95	G8791	Trigon	\$6.95
G8789	Lg 80° Diamond	\$14.95	G8792	Parting	\$11.95
G8790	Sm 80° Diamond	\$13.95	(all above are for mild steel)		

### CARBIDE INSERTS

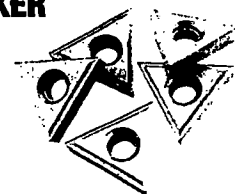
Inexpensive carbide inserts provide excellent cutting power on most metal surfaces. These disposable cutters are an ideal way to avoid re-sharpening costs. Can be used with our G2861 Fly Cutter.



**MODEL G4051 ONLY \$2<sup>49</sup> EA.**

### 60° TIN COATED CARBIDE INDEXABLE INSERTS WITH CHIP BREAKER

These 60° positive triangle screw-on type inserts are titanium nitride coated C-5 carbide for general purpose machining of steel and steel alloys. Each features single sided chip breaker and 7° relief angle.



MODEL	SIZE	IC	RADIUS	PRICE
G6706	TCMT-32.51	3/8"	1/64"	\$6.95 ea.
G6707	TCMT-21.51	1/4"	1/64"	\$3.95 ea.

### 5-PC. INDEXABLE CARBIDE TOOLHOLDER SETS

Five-piece turning tool sets feature indexable carbide inserts with "spline" type hold-down screws that allow indexing without removing the screw. Each set includes AR, AL, BR, BL and E style tools with carbide inserts, Allen® wrench, extra hold-down screws and wooden case. See TiN coated carbide indexable inserts on this page for replacement inserts.



#### POSITIVE RAKE HOLDERS

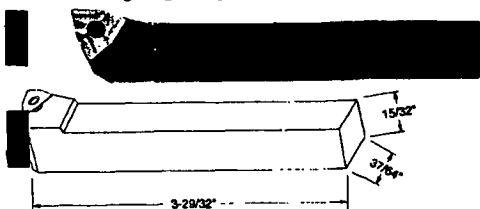
MODEL	SIZE	INSERT SIZE	PRICE
G5639	3/8"	TCMT-21.51	\$23.95
G5640	1/2"	TCMT-32.51	\$27.95

## CARBIDE INSERT TOOLHOLDERS

These carbide insert toolholders feature clamp lock or pin lock assemblies for quick insert rotation or replacements and positive locking action. Choose from our wide assortment of tool holders for any metal cutting job.

### LATHE TOOLHOLDERS

These toolholders feature trigon chip breaker inserts, offset shanks with 0° side cutting edge angle and negative rakes. Ideal for turning or facing.



LEFT HAND  
MODEL G7029  
ONLY \$12<sup>95</sup>



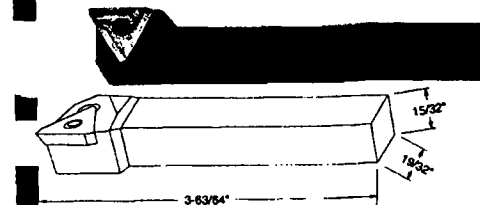
RIGHT HAND  
MODEL G7028  
ONLY \$12<sup>95</sup>

#### CARBIDE INSERTS (PACK OF 5)

MODEL G7039 RH FOR STEEL FOR G7028 ONLY \$5<sup>95</sup>  
MODEL G7047 RH FOR CAST IRON FOR G7028 ONLY \$5<sup>95</sup>  
MODEL G7040 LH FOR STEEL FOR G7029 ONLY \$5<sup>95</sup>  
MODEL G7048 LH FOR CAST IRON FOR G7029 ONLY \$5<sup>95</sup>

### TURNING TOOLHOLDERS

These toolholders feature triangle chip breaker inserts, offset shanks with 0° side cutting edge angle and negative rakes. Ideal for turning or facing.



LEFT HAND  
MODEL G7035  
ONLY \$12<sup>95</sup>



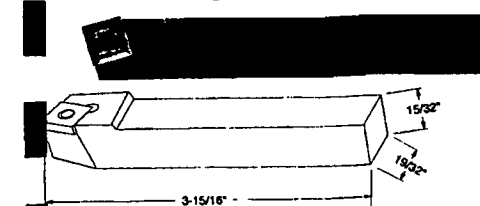
RIGHT HAND  
MODEL G7034  
ONLY \$12<sup>95</sup>

#### CARBIDE INSERTS (PACK OF 5)

MODEL G7043 RH FOR STEEL FOR G7034 ONLY \$5<sup>95</sup>  
MODEL G7051 RH FOR CAST IRON FOR G7034 ONLY \$5<sup>95</sup>  
MODEL G7044 LH FOR STEEL FOR G7035 ONLY \$5<sup>95</sup>  
MODEL G7052 LH FOR CAST IRON FOR G7035 ONLY \$5<sup>95</sup>

### TURNING TOOLHOLDERS

These toolholders feature square inserts, straight shank with 15° side cutting edge angle and negative rakes. Ideal for facing end of tubing and front and back flanges.



LEFT HAND  
MODEL G7037  
ONLY \$12<sup>95</sup>



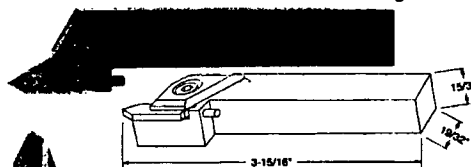
RIGHT HAND  
MODEL G7036  
ONLY \$12<sup>95</sup>

#### CARBIDE INSERTS (PACK OF 5)

MODEL G7045 RH FOR STEEL FOR G7036 ONLY \$5<sup>95</sup>  
MODEL G7053 RH FOR CAST IRON FOR G7036 ONLY \$5<sup>95</sup>  
MODEL G7046 LH FOR STEEL FOR G7037 ONLY \$5<sup>95</sup>  
MODEL G7054 LH FOR CAST IRON FOR G7037 ONLY \$5<sup>95</sup>

### THREADING TOOLHOLDERS

This toolholder features offset shank with 10° end cutting edge angle and neutral rake. Ideal for all external threading. Insert is fully adjustable.



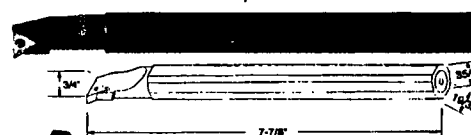
MODEL G7030  
ONLY \$12<sup>95</sup>

#### CARBIDE INSERTS (PACK OF 5)

MODEL G7041 FOR STEEL ONLY \$5<sup>95</sup>  
MODEL G7049 FOR CAST IRON ONLY \$5<sup>95</sup>

### BORING BAR

For all your boring bar needs, you can't beat the convenience of indexable inserts for maximum sharpness. Features flat faces for ease of clamping.



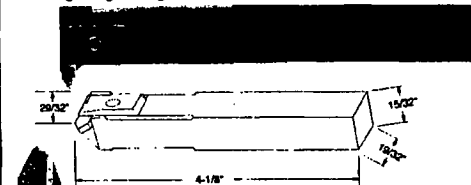
MODEL G7038  
ONLY \$29<sup>95</sup>

#### CARBIDE INSERTS (PACK OF 5)

MODEL G7055 FOR STEEL ONLY \$5<sup>95</sup>  
MODEL G7056 FOR CAST IRON ONLY \$5<sup>95</sup>

### INTERNAL THREADING TOOLHOLDER

This internal threading toolholder features offset shank with negative 5° end cutting edge angle and neutral rake. Insert is fully adjustable.



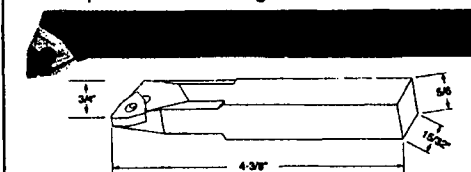
MODEL G7033  
ONLY \$12<sup>95</sup>

#### CARBIDE INSERTS (PACK OF 5)

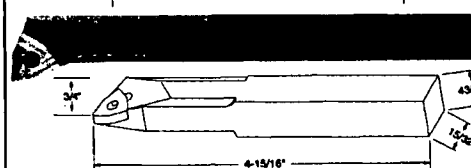
MODEL G7042 LH FOR STEEL ONLY \$5<sup>95</sup>  
MODEL G7050 LH FOR CAST IRON ONLY \$5<sup>95</sup>

### BORING TOOLHOLDERS

Choose the right length boring bar for the job. Both feature trigon inserts with chip breakers and negative rake.



MODEL G7031  
ONLY \$12<sup>95</sup>



MODEL G7032  
ONLY \$14<sup>95</sup>

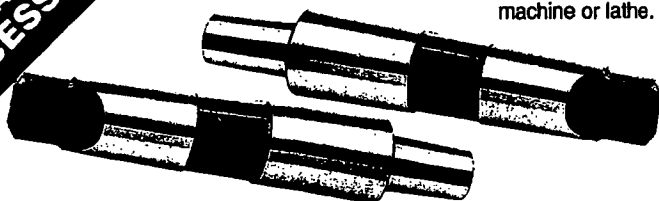
#### CARBIDE INSERTS (PACK OF 5)

MODEL G7040 LH FOR STEEL ONLY \$5<sup>95</sup>  
MODEL G7048 LH FOR CAST IRON ONLY \$5<sup>95</sup>

## LATHE ACCESSORIES

### DRILL CHUCK ARBORS

Used to adapt drill chucks to your drill press, milling machine or lathe.



MODEL	LONG END	SHORT END	PRICE
G1432	R-8	J.T. #6	\$7.95
G1433	R-8	J.T. #33	\$7.95
G1675	R-8	J.T. #3	\$7.95
G1434	MT #2	J.T. #6	\$7.95
G1435	MT #2	J.T. #33	\$7.95
G1676	MT #2	J.T. #3	\$7.95
G1436	MT #3	J.T. #6	\$7.95
G1437	MT #3	J.T. #33	\$7.95
G1677	MT #3	J.T. #3	\$7.95
H1126	MT #1	J.T. #2	\$14.95
H1166	MT #2	J.T. #2	\$12.95

**Jacobs'**

G8652	MT #1	J.T. #1	\$14.95
G8653	MT #1	J.T. #33	\$15.95
G8654	MT #3	J.T. #3	\$11.95

### BULL-NOSE ROLLING CENTERS

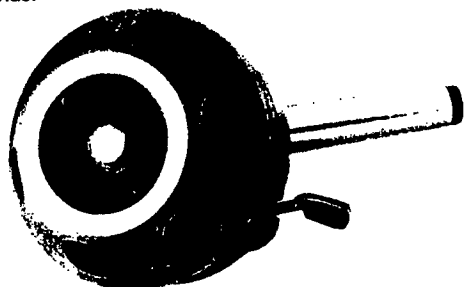


Ruggedly constructed for large, hollow workpieces like pipes, tubing and other material that would "swallow" a regular live center, these bull-nose centers are designed for heavy-duty use. Although primarily designed for metal lathes, our rolling centers also work well on wood lathes. Don't worry about dust getting in the bearings — they're sealed!

MODEL	SIZE	PRICE
G1296	MT #2 x 3"	\$39.95
G1297	MT #3 x 4"	\$49.95

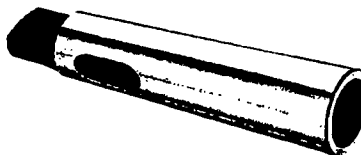
### TAILSTOCK TURRETS

These precision Tailstock Turrets will save you time and money. With five tool sockets you can quickly change from one machining operation to the next within seconds!



MODEL	TAPER	HEAD DIA.	TOOL SOCKET	PRICE
G9318	Morse Taper #2	2 1/2"	5/8"	\$49.95
G9319	Morse Taper #3	2 1/2"	5/8"	\$69.95
G9320	Morse Taper #4	2 1/2"	5/8"	\$99.95

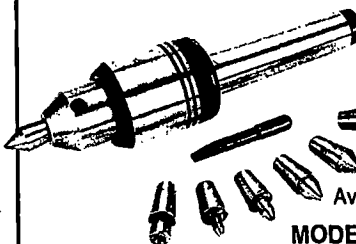
### MORSE TAPER SLEEVES



Adapt smaller taper shank tools to larger size spindles. Hardened tang and precision ground for dependable service.

MODEL	OUTSIDE TAPER	INSIDE TAPER	PRICE
G5713	MT #2	MT #1	\$4.95
G5714	MT #3	MT #2	\$5.95
G5715	MT #4	MT #3	\$6.95

### LIVE CENTER SETS

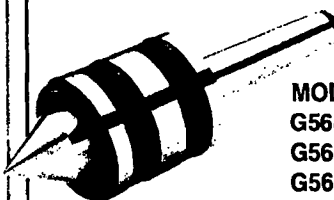


A super blend of quality and convenience, this live center kit offers seven interchangeable tips. High-quality needle bearings prolong tool life and special tool steel body and tips are precision ground. Supplied in wooden box. Available in Morse Taper #2, #3 and #4.

MODEL	TAPER	PRICE
G1069	MT #2	\$79.95
G1070	MT #3	\$89.95
G9245	MT #4	\$99.95

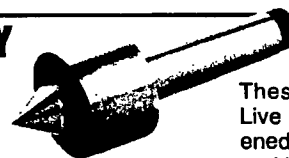
### LIVE CENTERS

Perfect for just about any turning requirement, these dust, chip and oil proof live centers feature 60° included angles and pre-loaded taper bearings. Choose from MT #1 through MT #4.



MODEL	TYPE	PRICE
G5685	MT #1	\$22.95
G5686	MT #2	\$23.95
G5687	MT #3	\$29.95
G5688	MT #4	\$39.95

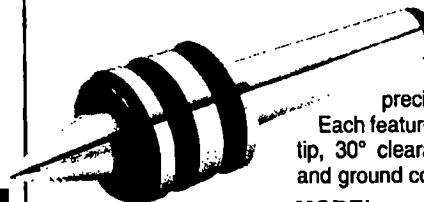
### HEAVY-DUTY TRIPLE BEARING LIVE CENTERS



MODEL	TYPE	PRICE
G9360	MT #1	\$27.50
G9361	MT #2	\$29.95
G9362	MT #3	\$36.95
G9363	MT #4	\$49.95
G9364	MT #5	\$69.95

These Triple Bearing Live Centers are hardened to 61-65 Rockwell and have a unique head driving mechanism that eliminates dust, chips and coolant from entering the internal workings. Made with precision, high quality bearings, these Live Centers have an accuracy of 0.0003".

### LONG NOSE PRECISION LIVE CENTERS



These Live Centers will give you that important tool clearance with the stability and precision necessary to do close work. Each features adjustable thrust bearings, 60° tip, 30° clearance relief angle and hardened ground components.

MODEL	TYPE	PRICE
G9888	MT #3	\$39.95
G9889	MT #4	\$49.95
G9890	MT #5	\$89.95



**Grizzly**  
Industrial

## CUTTING & TAPPING FLUID

This cutting and tapping fluid is non-ozone depleting and is safe on aluminum and exotic alloys such as stainless steel, hastelloy, inconel and titanium. The engineered formula clings to the cutting tool and provides strong lubrication during cutting and tapping.



H1412



H1413



H1414



4 oz. Grizzly® Cutting & Tapping Fluid

**MODEL H1412 ONLY \$1<sup>75</sup>**

16 oz. Grizzly® Cutting & Tapping Fluid

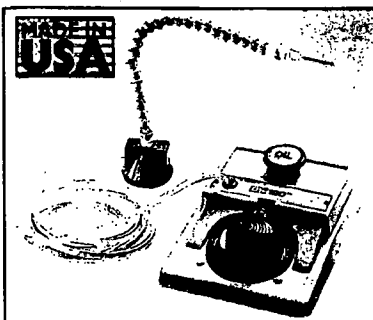
**MODEL H1413 ONLY \$4<sup>95</sup>**

1 Gal. Grizzly® Cutting & Tapping Fluid

**MODEL H1414 ONLY \$29<sup>95</sup>**

## COBRA™ FLUID-DISPENSING SYSTEM

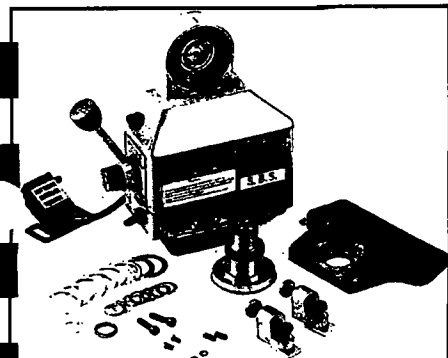
Step into the future of hands-free lubrication with the Cobra™ Fluid Dispensing System. This fully adjustable, foot-controlled system holds a pint of lubricating fluid and requires no compressed air or electricity. Perfect for milling, drilling, tapping or cutting, this portable system features a 7-foot supply line, flexible magnetic-base needle dispenser and five replaceable nozzle tips. Toss out that leaky oil can!



**MODEL G5330 ONLY \$99<sup>95</sup>**

## POWER FEEDER FOR MILLING MACHINES

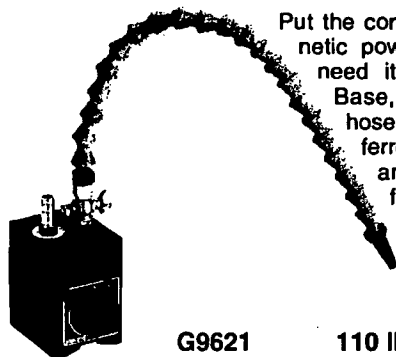
This tough Power Feeder includes everything needed to turn your milling machine into a profit machine. Features polished aluminum housing, simple controls, 110V motor with manual reset switch, pilot light and optimized feed rates with continuously adjustable speeds for fine finishing. Speed range is 0-140 RPM and maximum torque rating is 150 in-lbs. Fits on G4027, G4028 and G4029.



Power Feeder  
**MODEL G5964**

**ONLY \$295<sup>00</sup>**

## MAGNETIC BASE WITH COOLANT HOSE



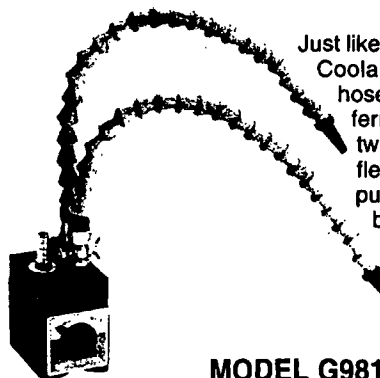
Put the convenience of magnetic power right where you need it with these Magnetic Base, quick locking coolant hose systems. Attaches to any ferrous surface with the twist of an On/Off switch. 1/4" x 14" flexible coolant hose is valve controlled and stays where you put it.

G9621  
G9622

110 lb. Force  
175 lb. Force

ONLY \$24<sup>95</sup>  
ONLY \$29<sup>95</sup>

## MAGNETIC BASE WITH TWO COOLANT HOSES

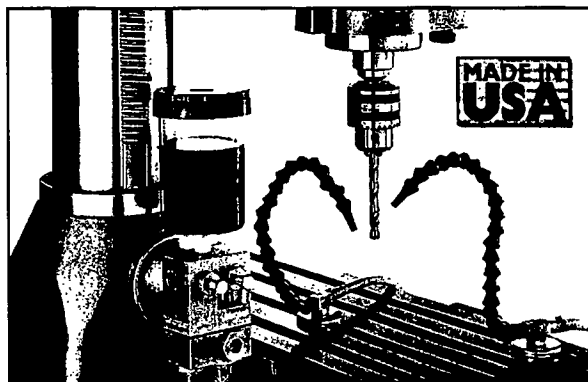


Just like the Magnetic Base with one Coolant Hose above, this two hose version attaches to any ferrous iron material with the twist of an On/Off switch. Two flexible coolant nozzles stay put and measure 1/4" diameter by 14" long. Air or liquid flow is independently valve controlled for maximum versatility. 175 lb. force.

**MODEL G9810 ONLY \$34<sup>95</sup>**

## ACCU-LUBE®

Protect your tempered cutting tools from overheating. Magnetic bases and 12" flexible nozzles direct a controlled cooling mist right where you need it. Features individual adjustments for a wide range of air and fluid flow rates and enhanced drip sight glass. Operates on 80 - 150 PSI of air pressure.



Single Nozzle

**MODEL G6524 ONLY \$199.95**

Twin Nozzle

**MODEL G6525 ONLY \$249.95**

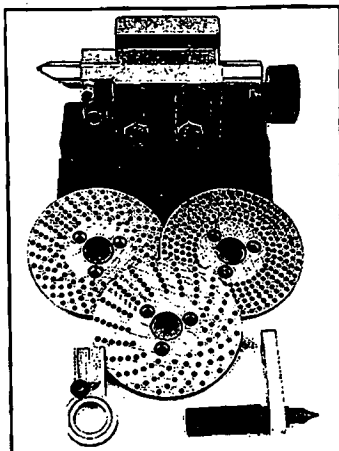
Lubricant- 1 Gallon Concentrate

**MODEL G7897 ONLY \$29.95**

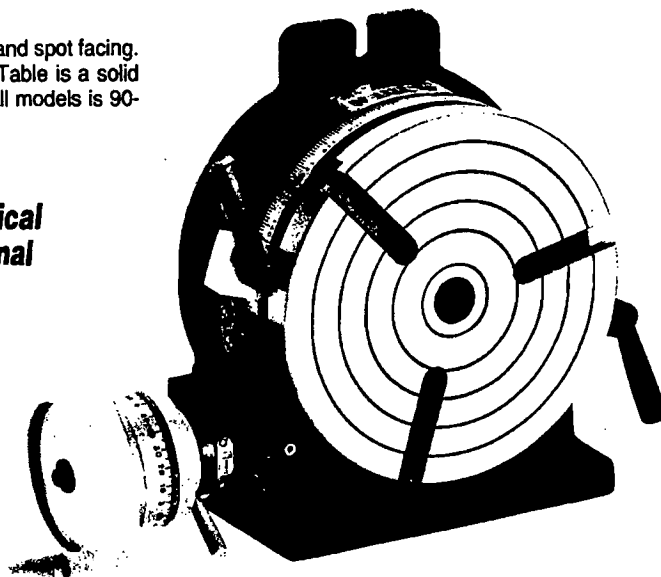
# MACHINE ACCESSORIES

## COMBINATION ROTARY TABLES

Use on milling machines for circular cutting, angle setting, boring and spot facing. Table surface and rotating parts are ground for smooth operation. Table is a solid Meehanite casting offering stability and assured accuracy. Ratio on all models is 90-to-1 or 4° per hand-wheel revolution.



**Horizontal and vertical  
models, plus optional  
dividing plates  
and tailstock!**



MODEL	SIZE	CENTER HOLE	SLOTS	APPROX. WEIGHT	PRICE
G1049	6"	MT #2	3	25 lbs.	\$199.00
G1050	8"	MT #3	3	61 lbs.	\$349.00
G1051	10"	MT #3	6	85 lbs.	\$449.00*

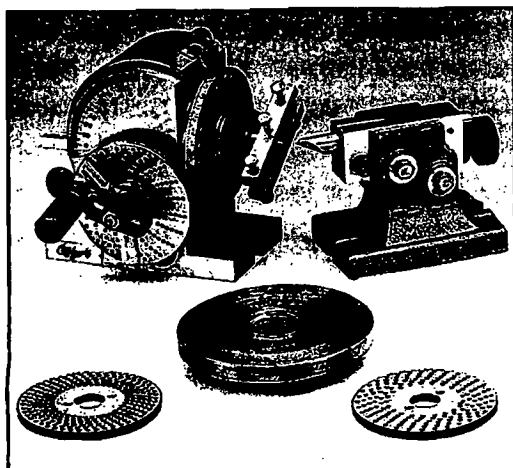
\*SHIP ANYWHERE TO 48 STATES FOR \$20\*\*

## OPTIONAL EQUIPMENT

### DIVIDING PLATES & TAILSTOCK

MODEL G1760	Dividing Plates for G1049	\$89.95
MODEL G1761	Dividing Plates for G1050	\$89.95
MODEL G1762	Dividing Plates for G1051	\$89.95
MODEL G1763	Tailstock for G1049	\$89.95
MODEL G1764	Tailstock for G1050	\$89.95
MODEL G1765	Tailstock for G1051	\$89.95

## DIVIDING HEADS



These high quality dividing heads are made with demanding care for precision gear-cutting, sharpening milling cutters, reamers, etc. Dividing heads come complete with 3 dividing plates, 1 tailstock, 1 chuck back plate, 1 center-dog and 1 center. Thread on nose 1½" x 8 TPI. Ratio: 40:1.

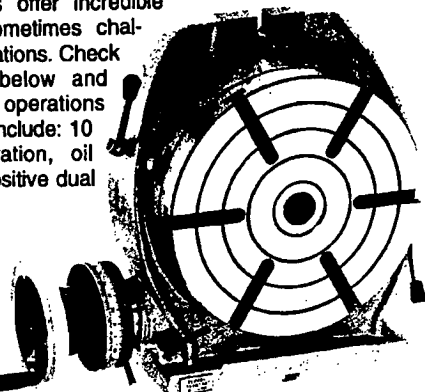
MODEL	TYPE	OVERALL WIDTH	OVERALL HEIGHT	CENTER (HEAD ONLY)	BASE SIZE	WEIGHT	TAPER	PRICE
G1053	BS-0	7¼"	7"	3¾"	3½" x 6½"	42 lbs.	BS-7	\$269.00
G1054	BS-1	8½"	9"	4⅞"	4¼" x 8"	71 lbs.	BS-9	\$379.00



## HORIZONTAL/VERTICAL ROTARY TABLES

These rugged, yet accurate rotary tables will give you years of service. The versatility of horizontal and vertical setups offer incredible capability for those sometimes challenging machining operations. Check out the accessories below and expand the types of operations even further! Features include: 10 second vernier calibration, oil immersed gears and positive dual action table locks.

G9293 SHOWN



**NEW**

MODEL	SIZE	SLOTS	CENTER HOLE	APPROX. WT.	PRICE
G9292	8"	4	MT #3	90 lbs.	\$279.95
G9293	10"	6	MT #3	125 lbs.	\$339.95
G9294	12"	6	MT #4	115 lbs.	\$479.95

## DIVIDING PLATES

These Dividing Plates will allow a higher degree of precision in hole placement, spot facing and even gear cutting to any rotary table. And with a tailstock, the support you need for longer workpieces is covered.



**NEW**

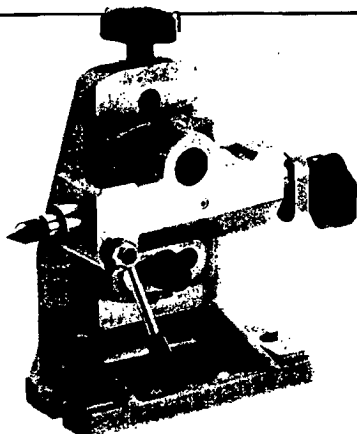
MODEL G9295

Dividing Plates

\$59.95

## ADJUSTABLE TAILSTOCKS

This Adjustable Tailstock provides the support you need for longer workpieces.



**NEW**

MODEL G9296  
MODEL G9297

For 8" and 10" Rotary Tables  
For 12" Rotary Tables

\$79.95  
\$89.95

## YUASA TYPE ROTARY TABLES



G9300 SHOWN

**NEW**

High precision, Yuasa type Rotary Tables feature extra deep coolant channels, dual positive action locks, very low profiles, 10 second vernier scales, gear drives with oil immersion and satin chrome dials.

**SPECIFICATIONS:** • Clamping surface flatness (concave): 0.0006" • Cylindrical center bore concentricity: 0.0008" • Taper center bore concentricity: 0.0008" • Surface to base parallelism: 0.0008" • Surface to angle face squareness: 0.0004" • Surface to center slot squareness: 0.0008"

G9298 • Overall height (horizontal): 3.944" • Height to center hole (vertical): 5.985" • Morse taper: #3 • T-slot width: 0.465" • Approximate shipping weight: 95 lbs.

G9299 • Overall height (horizontal): 4.330" • Height to center hole (vertical): 6.750" • Morse taper: #3 • T-slot width: 0.465" • Approximate shipping weight: 137 lbs.

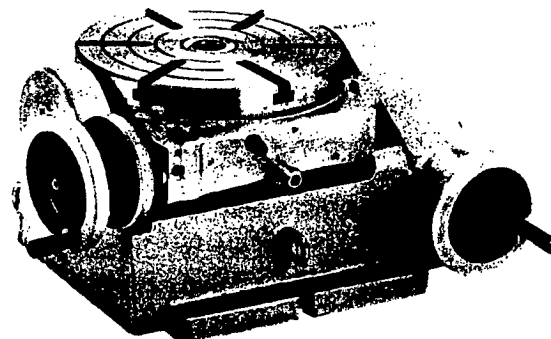
G9300 • Overall height (horizontal): 4.750" • Height to center hole (vertical): 8.250" • Morse taper: #4 • T-slot width: 0.545" • Approximate shipping weight: 250 lbs.

MODEL	SIZE	SLOTS	CENTER HOLE	APPROX. WT.	PRICE
G9298	8"	4	MT #3	72 lbs.	\$279.95
G9299	10"	6	MT #3	120 lbs.	\$329.95
G9300	12"	6	MT #4	170 lbs.	\$469.95

**20**  
**48**  
**48**

## 10" INCLINABLE ROTARY TABLE

**NEW**



This 10" tilting Rotary Table features satin chrome dials, 10 second vernier reading, extra deep coolant channel and dual positive action locks.

### SPECIFICATIONS:

• Oil immersed gear drive • 90:1 gear ratio • Clamping surface flatness (concave): 0.0006" • Cylindrical center bore concentricity: 0.0008" • Taper center bore concentricity: 0.0008" • Surface to base parallelism: 0.0008" • Surface to angle face squareness: 0.0004" • Surface to center slot squareness: 0.0008" • Outer diameter: 9.81" • Height: 8.07" • Center Height: 5.51" • Width of T-slot: 0.47" • Center hole taper: MT-3 • Approximate shipping weight: 197 lbs.

MODEL G9305

\$895.95

**48**

# MACHINE ACCESSORIES

## 1-2-3 BLOCKS



These 1-2-3 Blocks are extremely handy for layout and set up work. Matched blocks are hardened and precision ground so all six sides are square to within .0003". These blocks also feature five tapped holes and 18 untapped holes for clamping. Tapped holes are  $\frac{3}{8}$ " - 16.1" x 2" x 3" overall size.

MODEL G5641 ONLY **\$16<sup>95</sup>**

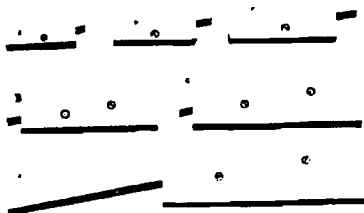
## 10-PC. PRECISION ANGLE BLOCK SET



Speed set-up, production and inspection with these hardened and precision-ground steel angle blocks. No more calculation or compounded errors. Set includes 1°, 2°, 3°, 4°, 5°, 10°, 15°, 20°, 25°, 30° angles and protective plastic case.

MODEL G5646 ONLY **\$29<sup>95</sup>**

## ADJUSTABLE PARALLEL SET

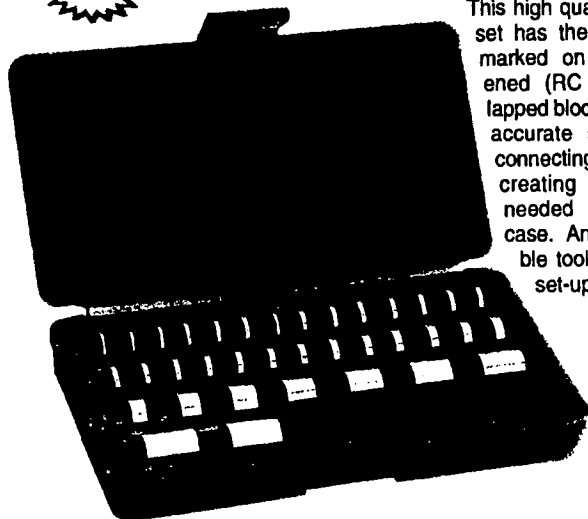


Create any parallel from  $\frac{3}{8}$ " to 2 $\frac{1}{4}$ " with this six-piece adjustable parallel set. Features machined and ground faces and locking set screws. Protected in a vinyl pouch.

MODEL G5680 ONLY **\$49<sup>95</sup>**

**NEW**

## SPACE BLOCK SET

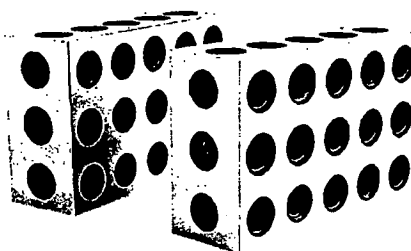


This high quality 36 piece set has the size clearly marked on each hardened (RC 58-60) and lapped block. This super accurate set includes connecting screws for creating any size needed and a fitted case. An indispensable tool for accurate set-up work.

MODEL G9799 ONLY **\$37<sup>50</sup>**

## 2-4-6 BLOCKS

For larger layout and set up jobs, these 2-4-6 Blocks can't be beat. Matched blocks are hardened and precision ground so all six sides are square to within .0003". These blocks also feature five tapped holes and 18 untapped holes for clamping. Overall size 2" x 4" x 6". Tapped holes are  $\frac{3}{8}$ " - 11".

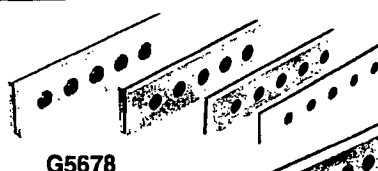


MODEL G5642

**\$99<sup>95</sup>**

SPECIAL **\$69<sup>95</sup>**

## STEEL PARALLEL SETS



G5679

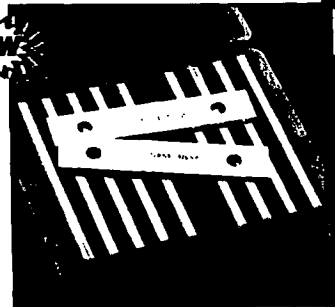
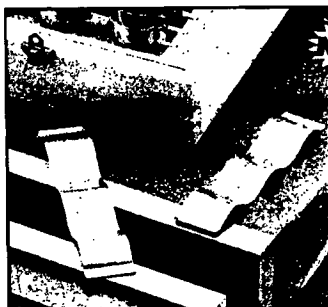
G5678

These ground and hardened sets feature four pairs of 6" long parallels that are accurate to within .0003" in parallelism and .0002" in height. Both sets come in wooden cases.

MODEL	THICKNESS	PRICE
G5678	$\frac{3}{16}$ "	\$37.95
G5679	$\frac{1}{2}$ "	\$44.95

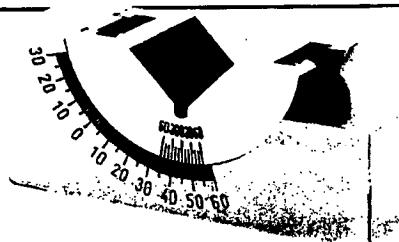
## PARALLEL SETS

Choose from a wide range of matched pairs in either wavy or hardened and ground  $\frac{1}{8}$ " thick steel. Wavy set measures 4 $\frac{1}{2}$ " long by widths from  $\frac{1}{2}$ " to 1 $\frac{1}{2}$ " in  $\frac{1}{8}$ " increments. Thin set measures 6" long by widths from  $\frac{1}{2}$ " to 1 $\frac{1}{2}$ " in  $\frac{1}{8}$ " increments. Both sets include protective cases.



MODEL	TYPE	PRICE
G9814	Wavy 9 pairs	\$32.95
G9815	Thin 10 pairs	\$24.95

## PRECISION ANGLE BLOCK 0° - 60°



Lock in any angle from 0 - 60° for precision milling, drilling and set up work. This hardened and precision ground angle block features a 90° and  $\frac{1}{16}$ ° vernier scale.

MODEL G5681 ONLY **\$49<sup>95</sup>**

## SLOTTED ANGLE PLATES

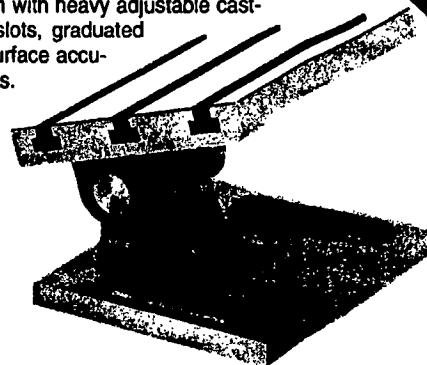
Slotted Angle Plates are made of precision ground, high tensile cast iron that has been seasoned to eliminate distortion. These Slotted Angle Plates are a triangular gusset web design for strength and perfectly machined square faces and parallel outside edges and ends. Generous slots allow easy clamping. Price is per piece.



MODEL	SIZE	PRICE
G9574	3½" x 3" x 2½"	\$10 <sup>95</sup>
G9575	4½" x 3½" x 3"	\$14 <sup>95</sup>
G9576	6" x 5" x 4½"	\$19 <sup>95</sup>
G9577	7" x 5½" x 4½"	\$29 <sup>95</sup>
G9578	8" x 6" x 5"	\$34 <sup>95</sup>
G9579	9" x 7" x 6"	\$49 <sup>95</sup>
G9580	10" x 8" x 6"	\$59 <sup>95</sup>
G9581	12" x 9" x 8"	\$79 <sup>95</sup>

## SWIVEL ANGLE TABLES

These Swivel Angle Tables save setup time and feature rugged construction with heavy adjustable castings, machined T-slots, graduated 90° tilt and table surface accuracy of .0005 inches.



MODEL	SIZE	PRICE
G9301	5" x 6"	\$39 <sup>95</sup>
G9302	6" x 8"	\$79 <sup>95</sup>
G9303	8" x 10"	\$99 <sup>95</sup>
G9304	10" x 12"	\$149 <sup>95</sup>

## V-ANGLE PLATES

These V-Angle Plates are manufactured from high grade cast iron that is fully stress relieved to give stability throughout their working life. The V-Angles have many more clamping positions than ordinary angle plates and allow almost any shape to be clamped securely with many types of clamps.

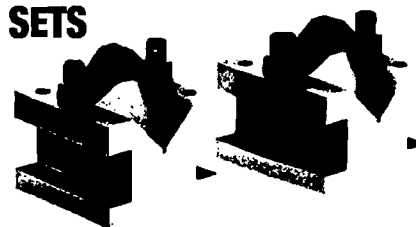


MODEL	SIZE	PRICE
G9582	3" x 3" x 5"	\$29 <sup>95</sup>
G9583	4" x 4" x 6"	\$37 <sup>95</sup>
G9584	5" x 5" x 7"	\$55 <sup>95</sup>
G9585	6" x 6" x 8"	\$79 <sup>95</sup>

## CAST IRON V-BLOCK PAIRS

MODEL	SIZE	PRICE
G9896	3"	\$6.95
G9897	4"	\$8.95
G9898	5"	\$12.95
G9899	6"	\$18.95

## 90° V-BLOCK SETS

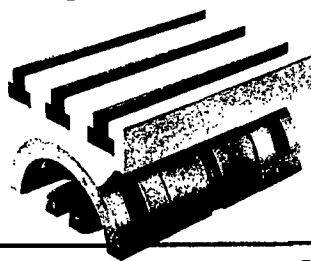


A must-have for milling and drilling round stock, these matched sets consist of two hardened and precision ground V-blocks and two clamps.

MODEL	SIZE	PRICE
G5643	1⅜" x 1⅜" x 1⅜"	\$29.95
G5644	2⅜" x 2⅜" x 2"	\$39.95
G9816	2½" x 2½" x 2"	\$47.50
G9817	3" x 3" x 4"	\$49.95
G5645	4⅞" x 4⅞" x 3⅜"	\$109.95

## TILT TABLES

Set your work at any angle from -45° to +45° with these sturdy tilt tables. Heavy-duty construction includes T-slots, two locking screws and precision base.



MODEL	TABLE SIZE	PRICE
G5758	5" x 7"	\$49.95
G5759	7" x 10"	\$89.95

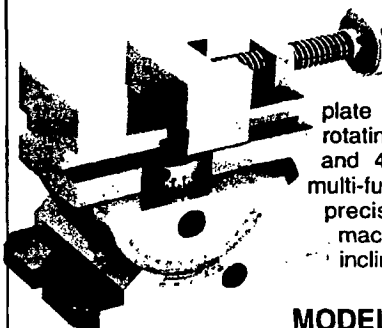
## MAGNETIC V-BLOCK SET



For use with magnetic chucks, these V-block sets are precision ground and secure in any position. Strong magnetic force means there's no wasted time fooling with traditional clamps.

MODEL G5657 ONLY **\$49<sup>95</sup>**

## PRECISION UNIVERSAL VISE



This newly developed Universal Vise combines a precision vise with a swivel plate base, making it capable of rotating 360° in a horizontal plane and 45° in a vertical plane. This multi-functional vise is adaptable for precision grinding and boring machines as well as for level and inclined face machining.

MODEL G9630 ONLY **\$399<sup>95</sup>**

# MACHINE ACCESSORIES

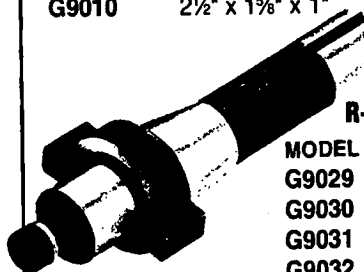
## SHELL END MILLS

These Shell End Mills are just the ticket for those large jobs. Whether you're facing, through slotting, edging or shouldering, you'll agree these beauties have outstanding performance! Priced less than half the cost of similar sized end mills with shanks, you can't afford NOT to buy these!



### SHELL END MILLS

MODEL	SIZE	PRICE
G9005	1 1/4" x 1" x 1/2"	\$16.95
G9006	1 1/2" x 1 1/8" x 1/2"	\$17.95
G9007	1 3/4" x 1 1/4" x 3/4"	\$19.95
G9008	2" x 1 3/8" x 3/4"	\$22.95
G9009	2 1/4" x 1 1/2" x 1"	\$29.95
G9010	2 1/2" x 1 5/8" x 1"	\$37.95

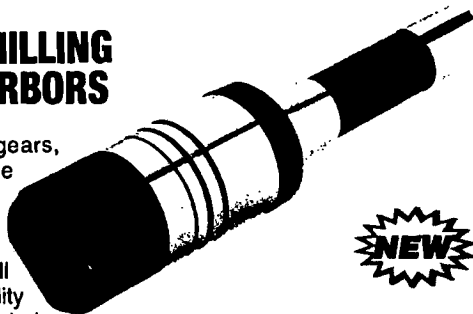


### R-8 SHELL END MILL ARBORS

MODEL	SIZE	PRICE
G9029	1/2"	\$29.95
G9030	3/4"	\$29.95
G9031	1"	\$29.95
G9032	1 1/4"	\$29.95
G9033	1 1/2"	\$29.95
G9034	5-pc. set	\$139.95

## R-8 STUB MILLING MACHINE ARBORS

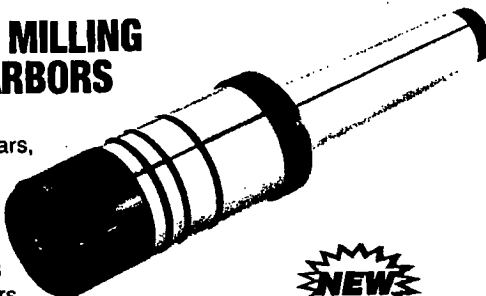
Looking to cut gears, using a large slotting cutter or slitting saw blade? These R-8 stub milling arbors will give you the rigidity and stability needed for those special milling projects. Supplied with 4 spacers each.



MODEL	SIZE	PRICE
G9307	1"	\$24 <sup>95</sup>
G9309	1 1/4"	\$24 <sup>95</sup>

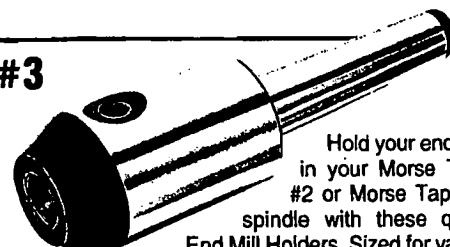
## MT-3 STUB MILLING MACHINE ARBORS

Looking to cut gears, using a large slotting cutter or slitting saw blade? These Morse Taper #3 stub milling arbors will give you the rigidity and stability needed for those special milling projects. Supplied with 4 spacers each.



MODEL	SIZE	PRICE
G9308	1"	\$24 <sup>95</sup>
G9310	1 1/4"	\$24 <sup>95</sup>

## MT #2 & #3 END MILL HOLDERS



Hold your end mill in your Morse Taper #2 or Morse Taper #3 spindle with these quality End Mill Holders. Sized for various end mill shanks.

MODEL	MT	DRAWBAR	SIZE	PRICE
G5604	#2	M12 x 1.75	3/16"	\$15.95
G5605	#2	M12 x 1.75	3/8"	\$15.95
G5606	#2	M12 x 1.75	1/2"	\$15.95
G5607	#2	M12 x 1.75	5/8"	\$15.95
G5608	#3	M12 x 1.75	3/16"	\$16.95
G5609	#3	M12 x 1.75	3/8"	\$16.95
G5610	#3	M12 x 1.75	1/2"	\$17.95
G5611	#3	M12 x 1.75	5/8"	\$17.95
G5612	#3	M12 x 1.75	3/4"	\$17.95

MODEL	MT	DRAWBAR	SIZE	PRICE
G9536	#2	3/8" x 16 TPI	3/16"	\$15.95
G9537	#2	3/8" x 16 TPI	3/8"	\$15.95
G9538	#2	3/8" x 16 TPI	1/2"	\$15.95
G9539	#2	3/8" x 16 TPI	5/8"	\$15.95
G9540	#3	3/8" x 16 TPI	3/16"	\$16.95
G9541	#3	3/8" x 16 TPI	3/8"	\$16.95
G9542	#3	3/8" x 16 TPI	1/2"	\$17.95
G9543	#3	3/8" x 16 TPI	5/8"	\$17.95
G9544	#3	3/8" x 16 TPI	3/4"	\$17.95

## R-8 / MORSE TAPER SLEEVES

Use Morse Taper tooling on your R-8 machine with the help of these sleeves.



MODEL	OUTSIDE TAPER	INSIDE TAPER	PRICE
G1427	R-8	MT #2	\$11.95
G1428	R-8	MT #3	\$12.95

## R-8 END MILL HOLDERS

Order individual end mill holders to match your end mills. Sized to fit R-8 spindle tapers.

MODEL	SIZE	PRICE	MODEL	SIZE	PRICE
G5613	3/16"	\$15.95	G5616	5/8"	\$15.95
G5614	3/8"	\$15.95	G5617	3/4"	\$16.95
G5615	1/2"	\$15.95			

## 5-PIECE R-8 END MILL HOLDER SET

Hold various sized end mills in your R-8 spindle with this end mill holder set. Includes holders for 3/16", 3/8", 1/2", 5/8" and 3/4" end mills.



MODEL G5774 ONLY **\$75<sup>00</sup>**

## 5-C COLLET HORIZONTAL/ VERTICAL INDEX

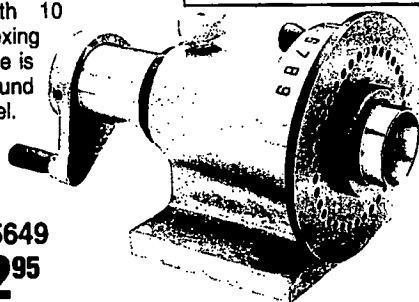
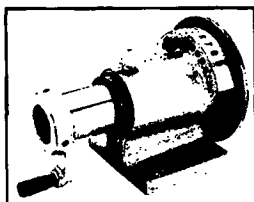


Precision manufactured 5-C Collet Indexing fixture features hardened and ground 2 1/4" - 8 TPI threaded spindle, single action indexing lever and precision ground, 24 position indexing plate.

**MODEL G5650 ONLY \$159<sup>95</sup>**

## 5-C SPIN INDEX

Fitted with a traveling spindle and collar, the 5-C Spin Index is unmatched for forming, grinding, and inspecting end mills and other fluted cutting tools. This spin index accepts 5-C collets up to 1 1/8" capacity and features a 36 hole indexing plate with 10 vernier holes for indexing to 1°. Locking spindle is hardened and ground and has 2 1/8" of travel.

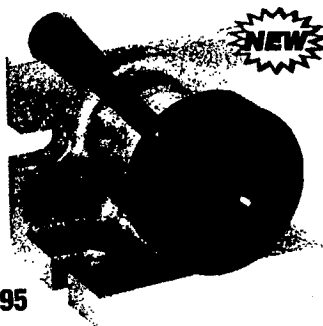


**MODEL G5649  
ONLY \$32<sup>95</sup>**

## 5-C HORIZONTAL/VERTICAL ANGLE COLLET FIXTURE

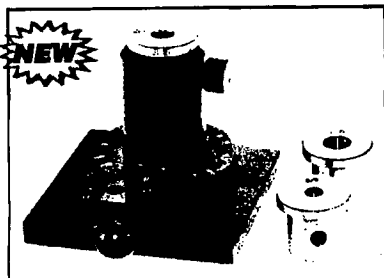
This 5-C Collet Fixture will be an asset in any machine shop. Features precision ground mounting surfaces so you can accurately change from horizontal and vertical without removing the part. Accepts collets up to 1".

**MODEL G9886 ONLY \$27<sup>95</sup>**



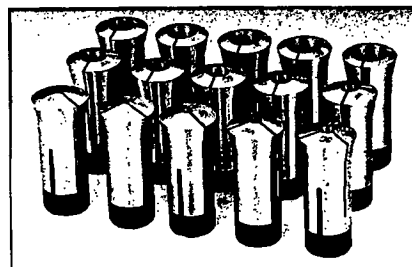
## END MILL GRINDING FIXTURE

This Grinding Fixture with built-in accuracy and convenient indexing comes with three precision ground holders with 3/8", 1/2", and 5/8" bores. Fixture indexes for 2, 4, 6 and 8 divisions. Base is ground for proper end mill clearance and relief angles.



**MODEL G9887 ONLY \$31<sup>95</sup>**

## PRECISION 5-C COLLETS



Made from high grade collet steel and precision ground to exacting tolerances.

MODEL	SIZE	PRICE	MODEL	SIZE	PRICE
G1223	1/8"	\$5.95	G1231	5/8"	\$5.95
G1224	3/16"	\$5.95	G1232	1 1/16"	\$5.95
G1225	1/4"	\$5.95	G1233	3/4"	\$5.95
G1226	5/16"	\$5.95	G1234	13/16"	\$5.95
G1227	3/8"	\$5.95	G1235	7/8"	\$5.95
G1228	7/16"	\$5.95	G1236	1 5/16"	\$5.95
G1229	1/2"	\$5.95	G1237	1"	\$5.95
G1230	9/16"	\$5.95			

Complete 15-pc. set

**MODEL G1238 ONLY \$84<sup>95</sup>**

## PRECISION R-8 COLLETS



Made from the highest grade steel available for collet manufacture, these R-8 Collets are precision ground to very close tolerances.

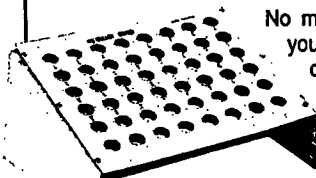
MODEL	SIZE	PRICE	MODEL	SIZE	PRICE
G1634	1/8"	\$5.95	G1640	1/2"	\$5.95
G1635	3/16"	\$5.95	G1641	9/16"	\$5.95
G1636	1/4"	\$5.95	G1642	5/8"	\$5.95
G1637	5/16"	\$5.95	G1643	1 1/16"	\$5.95
G1638	3/8"	\$5.95	G1644	3/4"	\$5.95
G1639	7/16"	\$5.95	G1645	7/8"	\$5.95

Complete 12-pc. set

**MODEL G1646 ONLY \$69<sup>95</sup>**

Try one or try  
the whole set!

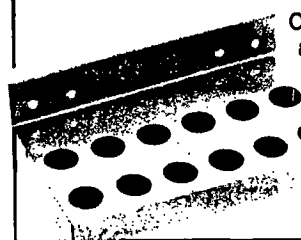
## R-8 VERTICAL COLLET RACK



No more loose R-8 collets laying around in your tool box. Organize with this handy collet rack and you won't be looking at each one for the correct size. Set on your bench or mount to a wall. Holds 48 collets.

**MODEL G5684 ONLY \$16<sup>95</sup>**

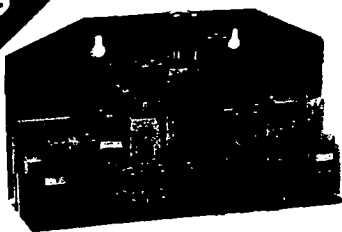
## R-8 COLLET RACK



Organize your R-8 collets so they're close at hand and easy to identify with this steel R-8 Collet Rack. Features convenient mounting holes and clearly marked collet sizes. Holds 12 collets.

**MODEL G9329 ONLY \$6<sup>95</sup>**

## MACHINE ACCESSORIES



### 52-PC. CLAMPING KITS

Our clamping kits are among the best in the world! All the blocks, bolts, nuts and hold-downs are case hardened. Each clamping kit includes: 24 studs, 6 step block pairs, 6 T-nuts, 6 flange nuts, 4 coupling nuts and 6 end hold-downs. We offer the two most popular sizes:  $\frac{3}{8}$ " and  $\frac{1}{2}$ ". The  $\frac{3}{8}$ " set fits our Model G1004, G1005 and G1008 mills, while the  $\frac{1}{2}$ " set fits our Model G1006, G1007, G1126, G4027, G4028, G4029 and G5757 mills, plus other larger milling machines on the market. Racks can be bolted to the wall or side of machine for easy access.

MODEL	T-NUT SIZE	BOLT SIZE	PRICE
G1075	$\frac{1}{2}$ "	$\frac{3}{8}$ "	<del>\$39.95</del> \$33.95
G1076	$\frac{5}{8}$ "	$\frac{1}{2}$ "	<del>\$39.95</del> \$33.95

### DELUXE STEP BLOCKS



Sintered metal Step Blocks feature standard step tooth pattern to fit any step clamp.

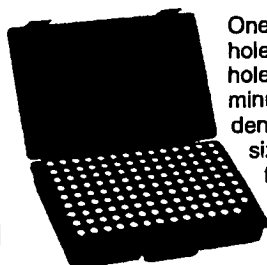
			PER PAIR
G9524	1 $\frac{1}{8}$ "	Standard-Duty 1" wide	\$1 <sup>95</sup>
G9525	1 $\frac{3}{4}$ "	Standard-Duty 1" wide	\$2 <sup>95</sup>
G9526	3 $\frac{3}{8}$ "	Standard-Duty 1" wide	\$3 <sup>95</sup>
G9527	2 $\frac{1}{2}$ "	Heavy-Duty 1 $\frac{1}{2}$ " wide	\$3 <sup>95</sup>
G9528	3 $\frac{3}{8}$ "	Heavy-Duty 1 $\frac{1}{2}$ " wide	\$5 <sup>95</sup>
G9529	5 $\frac{1}{2}$ "	Heavy-Duty 1 $\frac{1}{2}$ " wide	\$12 <sup>95</sup>

### STEP CLAMPS

These heat treated steel step clamps with black oxide finish have teeth that are matched to fit any size step block.

		PER PAIR
G9530	2 $\frac{1}{2}$ " x 1" x $\frac{1}{2}$ " ( $\frac{3}{8}$ " slot)	\$2 <sup>95</sup>
G9531	4" x 1" x $\frac{5}{8}$ " ( $\frac{3}{8}$ " slot)	\$3 <sup>95</sup>
G9532	6" x 1 $\frac{1}{8}$ " x $\frac{3}{4}$ " ( $\frac{3}{8}$ " slot)	\$4 <sup>95</sup>
G9533	2 $\frac{1}{2}$ " x 1 $\frac{1}{8}$ " x $\frac{1}{2}$ " ( $\frac{1}{2}$ " slot)	\$2 <sup>95</sup>
G9534	4" x 1 $\frac{1}{4}$ " x $\frac{3}{4}$ " ( $\frac{1}{2}$ " slot)	\$3 <sup>95</sup>
G9535	6" x 1 $\frac{1}{4}$ " x $\frac{7}{8}$ " ( $\frac{1}{2}$ " slot)	\$4 <sup>95</sup>
G9571	2 $\frac{1}{2}$ " x 1 $\frac{1}{4}$ " x $\frac{5}{8}$ " ( $\frac{5}{8}$ " slot)	\$3 <sup>50</sup>
G9572	4" x 1 $\frac{1}{2}$ " x $\frac{3}{4}$ " ( $\frac{5}{8}$ " slot)	\$4 <sup>95</sup>
G9573	6" x 1 $\frac{1}{2}$ " x $\frac{7}{8}$ " ( $\frac{5}{8}$ " slot)	\$5 <sup>95</sup>

### STEEL PLUG GAUGE SETS

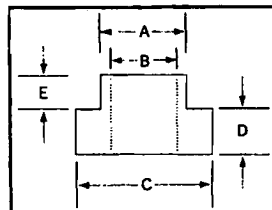


One of the most accurate ways to check hole diameter, distance between holes or hole locations. And, with the .0002" plus or minus sizes, you can work with total confidence. These gauges are laser marked for size, have a uniform length of 2" and are finished with a 10 micro or better. Each set comes in a fitted and marked case.

MODEL	SIZE	RANGE	PRICE
G9791	190-Pc. plus	0.061 - 0.250"	\$39.95
G9792	190-Pc. minus	0.061 - 0.250"	\$39.95
G9793	250-Pc. plus	0.251 - 0.500"	\$62.50
G9794	250-Pc. minus	0.251 - 0.500"	\$62.50
G9795	125-Pc. plus	0.501 - 0.625"	\$62.50
G9796	125-Pc. minus	0.501 - 0.625"	\$62.50
G9797	125-Pc. plus	0.626 - 0.750"	\$64.50
G9798	125-Pc. minus	0.626 - 0.750"	\$64.50

### T-SLOT NUTS

Heat treated steel T-Slot Nuts with black oxide finish feature an imperfect thread in the base of the T-nut to eliminate any danger of screwing the clamping stud through and damaging the table slot.



PRICE IS FOR PACK OF FOUR!

MODEL	A	B	C	D	E	PRICE
G9510	0.37"	$\frac{5}{16}$ "-18	0.605"	0.185"	0.315"	\$2 <sup>95</sup>
G9511	0.42"	$\frac{3}{8}$ "-16	0.655"	0.22"	0.27"	\$2 <sup>95</sup>
G9512	0.49"	$\frac{3}{8}$ "-16	0.865"	0.265"	0.235"	\$3 <sup>25</sup>
G9513	0.55"	$\frac{3}{8}$ "-16	0.83"	0.34"	0.25"	\$3 <sup>25</sup>
G9514	0.55"	$\frac{1}{2}$ "-13	0.97"	0.34"	0.251"	\$3 <sup>75</sup>
G9515	0.62"	$\frac{1}{2}$ "-13	1.0"	0.33"	0.27"	\$3 <sup>75</sup>
G9516	0.69"	$\frac{1}{2}$ "-13	1.0"	0.43"	0.33"	\$3 <sup>95</sup>
G9517	0.66"	$\frac{5}{8}$ "-11	1.13"	0.435"	0.3"	\$4 <sup>25</sup>
G9518	0.73"	$\frac{5}{8}$ "-11	1.23"	0.42"	0.34"	\$4 <sup>25</sup>
G9519	0.79"	$\frac{5}{8}$ "-11	1.235"	0.54"	0.4"	\$4 <sup>95</sup>

### FLANGED NUTS

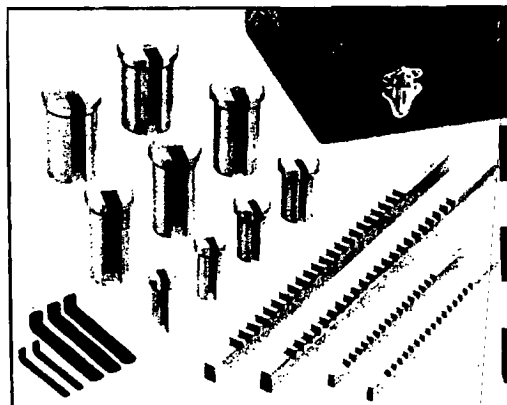
Heat treated, black oxide finish Flanged Nuts fit clamping studs with appropriate sized threads.

PER PACK OF FOUR

MODEL	SIZE	PRICE
G9520	$\frac{5}{16}$ "-18	\$3 <sup>25</sup>
G9521	$\frac{3}{8}$ "-16	\$3 <sup>25</sup>
G9522	$\frac{1}{2}$ "-13	\$3 <sup>25</sup>
G9523	$\frac{5}{8}$ "-11	\$3 <sup>95</sup>

### KEYWAY BROACH SETS

The quickest and easiest way to produce a keyway into a bore is to use a broach and arbor press. Our new broach set offers four sizes of  $\frac{1}{8}$ "B,  $\frac{3}{16}$ "B,  $\frac{1}{4}$ "C and  $\frac{3}{8}$ "C broaches. Includes four "B" type collared bushings sized  $\frac{1}{2}$ ",  $\frac{5}{8}$ ",  $\frac{3}{4}$ " and  $\frac{7}{8}$ ", five "C" type collared bushings sized 1", 1 $\frac{1}{8}$ ", 1 $\frac{1}{4}$ ", 1 $\frac{3}{8}$ " and 1 $\frac{1}{2}$ ", five shims and a wooden case.



MODEL	SIZE	PRICE
G9771	9-Pc. HSS	\$89.95
G9772	17-Pc. HSS	\$269.95
G9773	22-Pc. HSS	\$269.95
G9774	18-Pc. HSS	\$139.95

## BORING HEAD COMBO SETS

Just like the individual Boring Heads, these combination sets provide maximum rigidity even when the boring bar holder is used in an offset position. Hardened and ground adjusting screws along with a wide base design guarantee a long life and trouble-free use. Model G9322 includes: 2" boring head, R-8 shank with  $\frac{7}{8}$ " - 20 TPI and  $\frac{1}{2}$ " boring bar set. Model G9324 includes: 3" boring head, R-8 shank with  $1\frac{1}{2}$ " - 18 TPI and  $\frac{3}{4}$ " boring bar set.



R-8  
ONLY

MODEL	SIZE	PRICE
G9322	2"	\$79.95
G9324	3"	\$89.95

## BORING HEADS

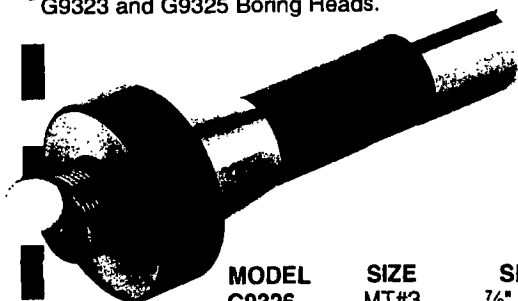
These high quality Boring Heads are excellent performers at an affordable price. Practical design provides maximum rigidity even when boring bar is used in the offset position. Hardened and ground adjusting screws along with a wide base design guarantee a long life and trouble-free use. G9321 has an set reading dial which moves and reads .040" per revolution of the adjusting screw. The G9323 and G9325 have direct reading dials which enlarge the hole being bored by the amount shown on the dial. The off-set moves .050" per revolution of the adjusting screw. All three Boring Heads are calibrated in .001" and come with adjusting wrenches. Maximum offsets: G9321 is  $\frac{3}{8}$ ", G9323 is 1", G9325 is 1 $\frac{1}{2}$ ".



MODEL	SIZE	SIZE	PRICE
G9321	2"	$\frac{7}{8}$ " - 20	\$49.95
G9323	3"	$1\frac{1}{2}$ " - 18	\$59.95
G9325	4"	$1\frac{1}{2}$ " - 18	\$129.95

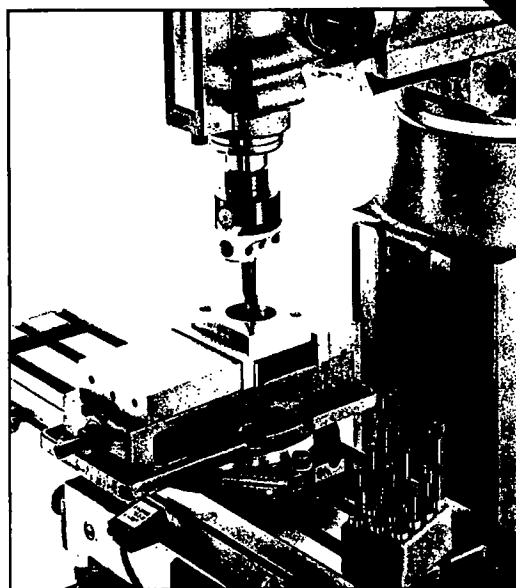
## BORING HEAD SHANKS

Choose from the following Boring Head Shanks to match to your particular spindle and draw bar requirements. Models G9326 and G9327 fit Model G9321 Boring Head only. Model G9328 fits Model G9323 and G9325 Boring Heads.



MODEL	SIZE	SIZE	PRICE
G9326	MT#3	$\frac{7}{8}$ " - 20	\$16.95
G9327	R-8	$\frac{7}{8}$ " - 20	\$16.95
G9328	R-8	$1\frac{1}{2}$ " - 18	\$16.95

MACHINE  
ACCESSORIES



## $\frac{3}{8}$ " & $\frac{1}{2}$ " SHANK CARBIDE BORING BAR 9-PC. SET

Commercial quality boring bars offer outstanding accuracy and long-lasting durability. The most effective means possible for creating precise hole cuts with your metal lathe and boring head on a milling machine.

OVERALL LENGTH	BORE DEPTH	MIN. BORE
2"	$\frac{3}{4}$ "	$\frac{5}{16}$ "
2 $\frac{3}{8}$ "	$1\frac{1}{8}$ "	$\frac{5}{16}$ "
2 $\frac{3}{4}$ "	$1\frac{1}{2}$ "	$\frac{5}{16}$ "
2 $\frac{3}{16}$ "	$1\frac{5}{16}$ "	$\frac{3}{8}$ "
2 $\frac{1}{2}$ "	$1\frac{13}{32}$ "	$\frac{3}{8}$ "
3 $\frac{1}{8}$ "	$1\frac{7}{8}$ "	$\frac{3}{8}$ "
2 $\frac{3}{8}$ "	$1\frac{1}{8}$ "	$\frac{7}{16}$ "
2 $\frac{15}{16}$ "	$1\frac{7}{8}$ "	$\frac{7}{16}$ "
3 $\frac{1}{2}$ "	2 $\frac{1}{4}$ "	$\frac{7}{16}$ "

MODEL G4052

$\frac{3}{8}$ " SHANK ONLY \$29<sup>95</sup>

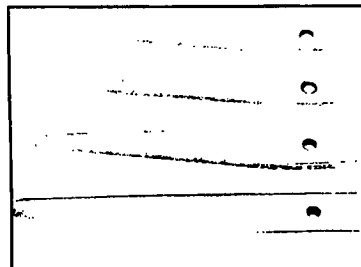
OVERALL LENGTH	BORE DEPTH	MIN. BORE
2 $\frac{1}{4}$ "	$\frac{3}{4}$ "	$\frac{5}{16}$ "
2 $\frac{5}{8}$ "	$1\frac{1}{8}$ "	$\frac{5}{16}$ "
3"	$1\frac{1}{2}$ "	$\frac{5}{16}$ "
2 $\frac{5}{8}$ "	$1\frac{1}{8}$ "	$\frac{7}{16}$ "
3 $\frac{3}{16}$ "	$1\frac{11}{16}$ "	$\frac{7}{16}$ "
3 $\frac{3}{4}$ "	2 $\frac{1}{4}$ "	$\frac{7}{16}$ "
3"	$1\frac{1}{2}$ "	$\frac{9}{16}$ "
3 $\frac{3}{4}$ "	2 $\frac{1}{4}$ "	$\frac{9}{16}$ "
4 $\frac{1}{2}$ "	3"	$\frac{9}{16}$ "

MODEL G4053

$\frac{1}{2}$ " SHANK ONLY \$34<sup>95</sup>

## DRIFT KEYS

These drop forged Drift Keys quickly remove taper shank drills or reamers from sleeves or sockets. Choose individual Drift Keys in various sizes or buy the whole set and save. Number 1 fits MT #1 sleeves and sockets. Number 2 fits MT #2 sleeves and sockets. Number 3 fits MT #3 sleeves and sockets. Number 4 fits MT #4, #5 and #6 sleeves and sockets.



MODEL	SIZE	PRICE
G9374	#1	\$1.50
G9375	#2	\$1.75
G9376	#3	\$1.95
G9377	#4	\$2.95
G9378	4-Pc. Set	\$6.95

## MACHINE ACCESSORIES

### M2 HSS CUT-OFF BLADES

These precision made, High Speed Steel cut-off blades will fit those standard holders made for bevel-top (tapered) blades. Check the capacity of your holder and select the right blade from the list below.

HSS 3/16" x 1" x 6-1/2" CHILL



MODEL	SIZE	TYPE	PRICE
G9839	1/16" x 1/2" x 4 1/4"	HSS	\$1.45
G9840	3/32" x 1/2" x 4 1/4"	HSS	\$1.75
G9841	3/32" x 1/2" x 4 1/4"	HSS	\$1.95
G9842	1/8" x 3/4" x 5"	HSS	\$2.75
G9843	1/8" x 3/4" x 5"	HSS	\$3.95
G9844	3/16" x 3/4" x 5"	HSS	\$4.95

### ROTARY BURRS

These right-hand, single cut carbide Rotary Burrs feature fine grain carbide cutters and steel shanks. Individual burrs are available in 1/4" shanks. The 12-piece Mini Burr Set features 1/8" shank double cut burrs including 1/8" cylindrical, 3/32" cylindrical, 1/8" radius end, 1/8" ball, 1/8" oval, 2 each 1/8" tree radius, 1/8" tree pointed, 1/8" taper, 1/8" flame, 1/8" inverted taper and 1/8" 14° taper. The 12-piece Burr Set features double cut 3/16" & 1/4" shank burrs including: 3/16" cylindrical, 1/4" cylindrical, 3/16" radius end, 1/4" radius end, 3/16" ball, 1/4" ball, 1/4" oval, 1/4" tree radius, 3/16" tree pointed, 1/4" taper, 3/4" taper and 1/4" inverted taper.



#### SHAPE A: CYLINDRICAL-NO CUT END

MODEL	SIZE	SHANK	PRICE
G6593	1/4"	1/4"	\$5.95
G6594	3/8"	1/4"	\$8.95
G6595	1/2"	1/4"	\$13.95
G6596	5/8"	1/4"	\$16.95
G6597	3/4"	1/4"	\$24.95

#### SHAPE E: OVAL

MODEL	SIZE	SHANK	PRICE
G6608	1/4"	1/4"	\$8.95
G6609	3/8"	1/4"	\$10.95
G6610	1/2"	1/4"	\$15.95
G6611	5/8"	1/4"	\$21.95
G6612	3/4"	1/4"	\$29.95

#### SHAPE C: CYLINDRICAL-RADIUS END

MODEL	SIZE	SHANK	PRICE
G6598	1/4"	1/4"	\$8.95
G6599	3/8"	1/4"	\$10.95
G6600	1/2"	1/4"	\$16.95
G6601	5/8"	1/4"	\$21.95
G6602	3/4"	1/4"	\$30.95

#### SHAPE F: TREE RADIUS

MODEL	SIZE	SHANK	PRICE
G6613	1/4"	1/4"	\$8.95
G6614	3/8"	1/4"	\$10.95
G6615	1/2"	1/4"	\$15.95
G6616	5/8"	1/4"	\$21.95

#### SHAPE D: BALL

MODEL	SIZE	SHANK	PRICE
G6603	1/4"	1/4"	\$7.95
G6604	3/8"	1/4"	\$10.95
G6605	1/2"	1/4"	\$11.95
G6606	5/8"	1/4"	\$14.95
G6607	3/4"	1/4"	\$20.95

#### SHAPE L: 14° TAPER

MODEL	SIZE	SHANK	PRICE
G6617	1/4"	1/4"	\$8.95
G6618	3/8"	1/4"	\$13.95
G6619	1/2"	1/4"	\$16.95
G6620	5/8"	1/4"	\$29.95
G6621	3/4"	1/4"	\$40.95

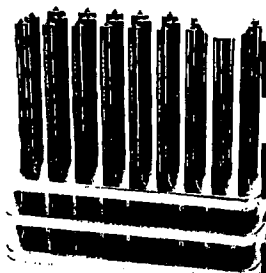
#### ROTARY BURR SETS

MODEL	PRICE
G6627	12-Pc. 1/8" Mini-Burr Set \$49.95
G6628	12-Pc. 3/16" & 1/4" Burr Set \$89.95

### TRANSFER PUNCH SETS

Made of heat treated tempered tool steel, these transfer punches measure 4 7/8" long and are slightly undersized for easy use.

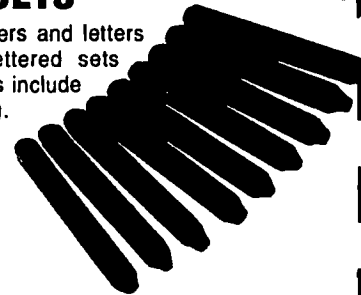
MODEL	SET	SIZES	PRICE
G5651	28-Pc.	3/32" to 1/2"	\$9.95
G5652	33-Pc.	1/2" to 1"	\$39.95
G5653	26-Pc.	A-Z	\$14.95
G5654	60-Pc.	1-60	\$24.95
G5655	25-Pc.	Metric	\$16.95



### STEEL STAMPING SETS

These hardened stamping numbers and letters are available in two sizes. Lettered sets include A - Z and numbered sets include 0 - 8 (the inverted 6 makes the 9).

MODEL	SET	PRICE
G5745	1/16" NUMBERED	\$4.95
G5746	1/8" NUMBERED	\$4.95
G5747	1/16" A-Z	\$7.95
G5748	1/8" A-Z	\$7.95

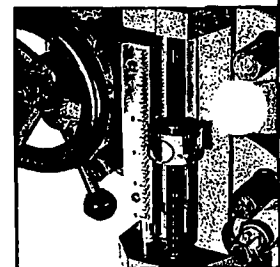


### QUICK QUILL STOP

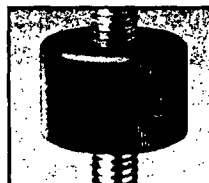


Adjust quill depth in just seconds! Simply press the button and the nut disengages from the thread. Slide to desired position and release the button to engage the threads. Turning the nut then allows for precision micro-adjustments of .001". Installs in just minutes and fits domestic and imported equipment with 1/2"-20 threaded rod stops.

MODEL G7316 ONLY **\$34<sup>95</sup>**



### QUICK THREAD STOP COLLARS



Great time savers! These button thread nuts allow quick adjustments on long thread lengths. Simply press the button and the threads are disengaged for easy movement up or down the screw. Release the button and the threads engage for normal turning.

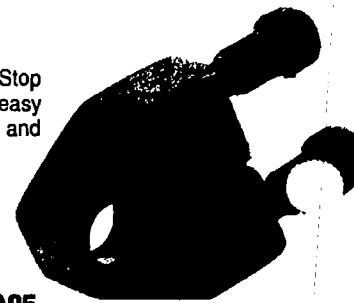
MODEL	SIZE	PRICE	MODEL	SIZE	PRICE
G7317	3/8"-16"	\$4.95	G7319	8mm	\$4.95
G7318	1/2"-13"	\$5.95	G7320	10mm	\$4.95

### QUILL STOP

For rapid depth setting, this Quill Stop features a quick action clip for easy installation and removal and top and bottom positioning.



MODEL G9306 ONLY **\$3<sup>95</sup>**







## MAGNETIC BASE LIGHT

Light up your work just where you need it. Flexible neck lamp features magnetic base that attaches with the twist of a switch so you can use it on every machine. But what the heck, at this price, buy one for all your machines!

**MODEL G5683 ONLY \$22<sup>95</sup>**

## DISPOSABLE DEBURRING TOOLS

Deburr sharp edges with this handy throw-away Deburring Tool. Non-replaceable blade is ideally suited for steel and aluminum.

**SAVE 15%  
WHEN YOU ORDER  
THE 3-PC. SET!**

MODEL  
G508  
G9509

Single  
3-Pc. Set

PRICE  
\$1<sup>95</sup>  
\$4<sup>95</sup>

## DEBURRING TOOL & BLADES



The quickest tool for smoothing freshly machined metal edges. Pivoting blades follows irregular edges for consistent results. Comes with two blades, one for steel and aluminum and one for brass and cast iron. Spare blades store in handle.

MODEL	TYPE	PRICE
G5618	Deburring Tool w/ 2 Blades	\$2.95
G5619	Extra Aluminum Blade	\$ .75
G5620	Extra Steel Blade	\$ .75

## MACHINIST'S JACK

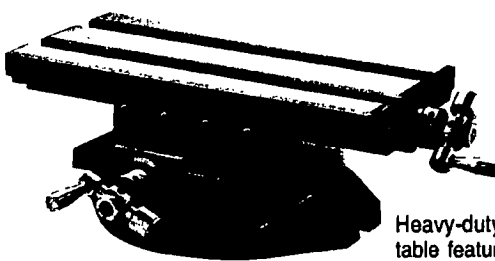
For use anywhere leveling is necessary, this Machinist's Jack has a lifting capacity of approximately 1000 pounds and has a 1" adjustment range. Jack is 4" high when fully extended.

**MODEL G9700 ONLY \$1<sup>95</sup>**



**NEW**

## COMPOUND SLIDE TABLE

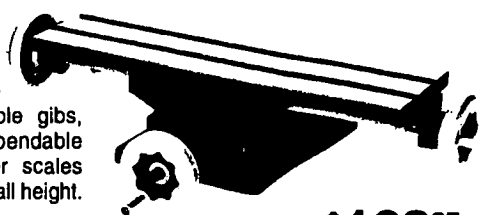


Heavy-duty compound slide table features 8" of longitudinal and 5" of transverse travel for versatile milling and drilling. Features 5½" x 12" table, ½" T-slots and adjustable gibs.

**MODEL G5757 ONLY \$89<sup>95</sup>**

## 6" x 18½" COMPOUND SLIDE TABLE

6" x 18½" Compound Slide Table features 12" of longitudinal travel and 4" of transverse travel, adjustable gibs, dovetailed ways, dependable Acme screws, vernier scales and ½" T-slots. 5" overall height.



**MODEL G8750 ONLY \$109<sup>95</sup>**

## POWER STEEL

Power Steel repairs, patches, seals, fills, plugs and molds into almost anything. It bonds to most surfaces and will bond metal to metal, wood to wood, wood to metal and plastic to plastic. It sets hard in only 20 minutes and after 3 hours you may drill it, tap it, saw it, machine it, sand it and paint it. 2 oz. container.

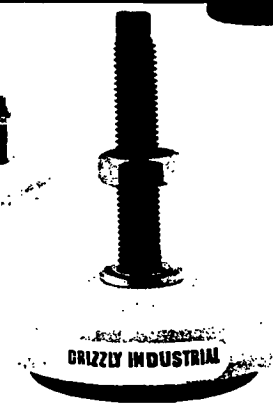
**MODEL G8005 ONLY \$4<sup>49</sup>**

**USA**

## MACHINE MOUNTS



For the ultimate in heavy machine stabilization, these mounts feature easy setting, fast leveling and vibration and noise reduction. Large rubber foot pads distribute weight evenly and long mounting studs provide a wide range of leveling adjustment. Sold each.

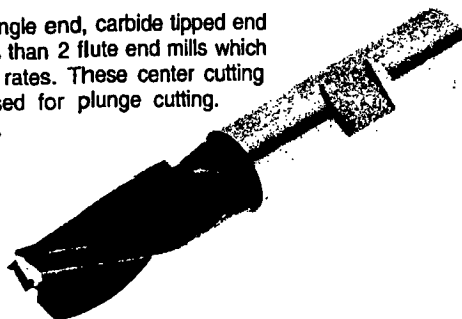


MODEL G7158	1½" 800 LB. CAPACITY	ONLY \$7 <sup>95</sup>
MODEL G7159	3" 1600 LB. CAPACITY	ONLY \$12 <sup>95</sup>
MODEL G7160	4¾" 8000 LB. CAPACITY	ONLY \$24 <sup>95</sup>
MODEL G7161	6¾" 25000 LB. CAPACITY	ONLY \$49 <sup>95</sup>

## END MILLS

### 3 FLUTE CARBIDE-TIPPED END MILLS

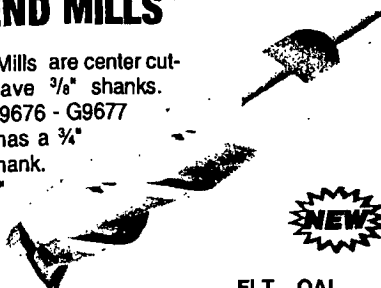
Three flute, single end, carbide tipped end mills chatter less than 2 flute end mills which means faster feed rates. These center cutting end mills can be used for plunge cutting. Shank diameter is 5/8".



MODEL	DIA	FLT LGTH	OAL LGTH	PRICE	MODEL	DIA	FLT LGTH	OAL LGTH	PRICE
G9330	5/8"	1 1/8"	3 1/2"	\$24.95	G9334	1 1/8"	1 1/8"	4 1/2"	\$32.95
G9331	3/4"	1 27/64"	3 3/4"	\$25.95	G9335	1 1/4"	1 27/32"	5 1/8"	\$35.95
G9332	7/8"	1 27/64"	3 3/4"	\$27.95	G9336	1 1/2"	2 1/4"	5 1/2"	\$44.95
G9333	1"	1 29/64"	4 1/8"	\$29.95	G9337	1 3/4"	2 5/8"	6 1/8"	\$59.95

### MULTI FLUTE END MILLS

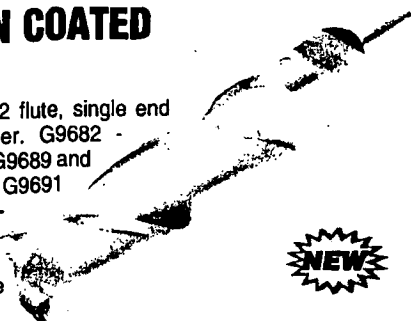
These 4 Flute Single End Mills are center cutting. G9670 - G9674 have 3/8" shanks. G9675 has a 1/2" shank. G9676 - G9677 have 5/8" shanks. G9678 has a 3/4" shank. G9679 has a 7/8" shank. G9680 and G9681 have 1" shanks.



MODEL	DIA	FLT LGTH	OAL LGTH	PRICE	MODEL	DIA	FLT LGTH	OAL LGTH	PRICE
G9670	1/8"	3/8"	2 5/16"	\$1.95	G9676	5/8"	1 5/8"	3 3/4"	\$5.95
G9671	3/16"	1/2"	2 3/8"	\$1.95	G9677	1 1/16"	1 5/8"	3 3/4"	\$4.95
G9672	1/4"	5/8"	2 1/2"	\$1.95	G9678	3/4"	1 5/8"	3 7/8"	\$5.95
G9673	5/16"	3/4"	2 1/2"	\$2.45	G9679	7/8"	1 7/8"	4 1/8"	\$7.45
G9674	3/8"	3/4"	2 1/2"	\$2.95	G9680	1"	2"	4 1/2"	\$9.95
G9675	1/2"	1 1/4"	3 1/4"	\$3.95	G9681	1 1/8"	2"	4 1/2"	\$14.95

### TWO FLUTE TIN COATED END MILLS

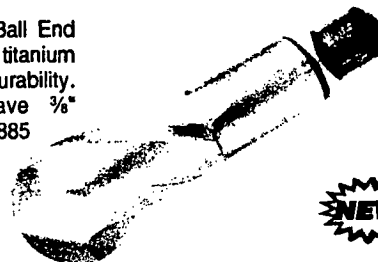
Titanium Nitride coated, 2 flute, single end mills stay sharper longer. G9682 - G9688 have 3/8" shanks, G9689 and G9690 have 1/2" shanks, G9691 has a 3/4" shank, G9692 - G9694 have 1/2" shanks, G9695 has a 3/4" shank and G9696 - G9697 have 1" shanks.



MODEL	DIA	FLT LGTH	OAL LGTH	PRICE	MODEL	DIA	FLT LGTH	OAL LGTH	PRICE
G9682	3/16"	3/4"	2 5/8"	\$2.95	G9690	1/2"	2"	4"	\$4.95
G9683	7/32"	1 1/4"	3 1/8"	\$2.95	G9691	5/8"	2"	4 1/8"	\$6.95
G9684	1/4"	1 1/4"	3 1/8"	\$2.95	G9692	3/4"	1 3/4"	4"	\$9.95
G9685	9/32"	1 3/8"	3 1/8"	\$2.95	G9693	3/4"	2 1/2"	4 3/4"	\$10.45
G9686	5/16"	1 3/8"	3 1/8"	\$3.45	G9694	3/4"	3 1/2"	5 3/4"	\$12.95
G9687	1 1/32"	1 1/2"	3 1/4"	\$3.45	G9695	7/8"	2 1/2"	4 3/4"	\$12.95
G9688	3/8"	1 1/2"	3 1/4"	\$3.95	G9696	1"	2"	4 1/2"	\$14.95
G9689	7/16"	1 3/4"	3 1/4"	\$4.25	G9697	1"	4"	6 1/2"	\$22.95

### TIN COATED BALL END MILLS

These two-flute HSS Ball End Mills feature long-life titanium nitride coatings for durability. G9872 - G9880 have 3/8" shanks. G9881 - G9885 have 1/2" shanks.



MODEL	DIA	FLT LGTH	OAL LGTH	PRICE	MODEL	DIA	FLT LGTH	OAL LGTH	PRICE
G9872	1/8"	3/8"	2 5/16"	\$4.95	G9879	1 1/32"	3/4"	2 1/2"	\$5.50
G9873	5/32"	7/16"	2 5/16"	\$4.95	G9880	3/8"	3/4"	2 1/2"	\$5.50
G9874	3/16"	1/2"	2 3/8"	\$4.95	G9881	7/16"	1"	3"	\$5.95
G9875	7/32"	1/2"	2 3/8"	\$4.95	G9882	1/2"	1"	3"	\$6.95
G9876	1/4"	5/8"	2 7/16"	\$4.95	G9883	9/16"	1"	3"	\$7.95
G9877	9/32"	9/16"	2 3/8"	\$5.50	G9884	5/8"	1 1/8"	3 1/8"	\$8.95
G9878	5/16"	3/4"	2 1/2"	\$5.50	G9885	3/4"	1 1/8"	3 3/8"	\$14.95

### BALL END MILLS FOR ALUMINUM

These M2 high speed steel, two flute single end ball end mills are designed for working aluminum. All have 3/8" shanks except G9669 which has a 1/2" shank.



MODEL	DIA	FLT LGTH	OAL LGTH	PRICE	MODEL	DIA	FLT LGTH	OAL LGTH	PRICE
G9662	1/4"	5/8"	2 1/2"	\$3.95	G9666	3/8"	3/4"	2 1/2"	\$3.95
G9663	1/4"	1 3/4"	3 1/2"	\$3.95	G9667	3/8"	2 1/2"	4 1/4"	\$3.95
G9664	5/16"	3/4"	2 1/2"	\$3.95	G9668	7/16"	1"	2 11/16"	\$4.95
G9665	5/16"	2"	3 3/4"	\$3.95	G9669	7/16"	2 3/4"	4 3/4"	\$5.95

### BALL END MILL SETS



Priced for outstanding value. These Ball End Mill Sets provide clean radiused cuts and rounded grooves. 9-piece set includes: 1/8", 3/16", 1/4", 5/16", 3/8", 7/16", 1/2", 5/8" and 3/4" sizes. Jumbo 4-piece set includes: 1", 1 1/4" and 1 1/2" sizes.



MODEL G9765 9-Pc. ONLY **\$39<sup>95</sup>**  
MODEL G9764 Jumbo 4-Pc. ONLY **\$79<sup>95</sup>**

## 6-PC. END MILL SETS

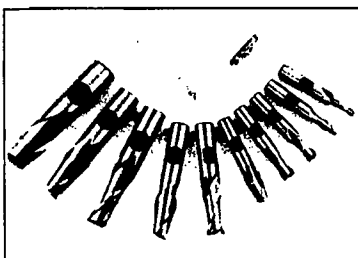
Don't need a large assortment? These High Speed Steel 6-piece sets in two or four flute styles are just right for any shop's milling needs. Small sets include  $\frac{1}{16}$ ",  $\frac{3}{16}$ ",  $\frac{1}{4}$ ",  $\frac{5}{16}$ ",  $\frac{3}{8}$ " and  $\frac{1}{2}$ " sizes. Large sets include  $\frac{1}{2}$ ",  $\frac{3}{4}$ ",  $1\frac{1}{4}$ " and  $1\frac{1}{2}$ " sizes.



MODEL	SIZE	PRICE
G9891	2 Flute, Small	\$12 <sup>95</sup>
G9892	4 Flute, Small	\$13 <sup>95</sup>
G9893	2 Flute, Large	\$54 <sup>95</sup>
G9894	4 Flute, Large	\$54 <sup>95</sup>

## 10-PC. 2 FLUTE HSS END MILL SET

Priced for outstanding value, this 10-piece assortment of high-speed steel end mills features the following sizes:  $\frac{3}{16}$ ",  $\frac{1}{4}$ ",  $\frac{5}{16}$ ",  $\frac{3}{8}$ ",  $\frac{7}{16}$ ",  $\frac{1}{2}$ ",  $\frac{9}{16}$ ",  $\frac{5}{8}$ ",  $1\frac{1}{16}$ ",  $\frac{3}{4}$ ". Finely-crafted mills are single-ended. Includes wood case.



MODEL G9757 WAS ~~\$26<sup>95</sup>~~ NOW ONLY **\$22<sup>95</sup>**

## 10-PC. 2 FLUTE TiN END MILL SET

Coated in extra-durable titanium nitride, this 10-piece assortment of high-speed steel end mills features the following sizes:  $\frac{3}{16}$ ",  $\frac{1}{4}$ ",  $\frac{5}{16}$ ",  $\frac{3}{8}$ ",  $\frac{7}{16}$ ",  $\frac{1}{2}$ ",  $\frac{9}{16}$ ",  $\frac{5}{8}$ ",  $1\frac{1}{16}$ ",  $\frac{3}{4}$ ". Finely-crafted mills are single-ended cutters. Includes wood case.



MODEL G9761 WAS ~~\$34<sup>95</sup>~~ NOW ONLY **\$27<sup>95</sup>**

## MACHINING FLUID

This biostable, heavy-duty soluble oil for heavy-duty machining applications provides stable pH performance which resists bacteria and fungal growth, rancidity and unpleasant odors. Can be used in light machining to difficult applications and with proper maintenance and filtration, its sump life is virtually unlimited. One gallon concentrate mixes with water to make 21 gallons for general machining and 11 to 16 gallons for heavy machining.



MODEL G7897 ONLY **\$29<sup>95</sup>** **MADE IN USA**

## END MILLS

### 10-PC. 4 FLUTE HSS END MILL SET



Priced for outstanding value, this 10-piece assortment of high-speed steel end mills features the following sizes:  $\frac{3}{16}$ ",  $\frac{1}{4}$ ",  $\frac{5}{16}$ ",  $\frac{3}{8}$ ",  $\frac{7}{16}$ ",  $\frac{1}{2}$ ",  $\frac{9}{16}$ ",  $\frac{5}{8}$ ",  $1\frac{1}{16}$ ",  $\frac{3}{4}$ ". Finely-crafted mills are single-ended. Includes wood case.

MODEL G9758 WAS ~~\$29<sup>95</sup>~~ NOW ONLY **\$22<sup>95</sup>**

### 10-PC. 4 FLUTE TiN END MILL SET



Coated in extra-durable titanium nitride, this 10-piece assortment of high-speed steel end mills features the following sizes:  $\frac{3}{16}$ ",  $\frac{1}{4}$ ",  $\frac{5}{16}$ ",  $\frac{3}{8}$ ",  $\frac{7}{16}$ ",  $\frac{1}{2}$ ",  $\frac{9}{16}$ ",  $\frac{5}{8}$ ",  $1\frac{1}{16}$ " and  $\frac{3}{4}$ ". Finely-crafted mills are single-ended cutters. Includes wood case.

MODEL G9762 WAS ~~\$34<sup>95</sup>~~ NOW ONLY **\$27<sup>95</sup>**

### 10-PC. COMBINATION 2 & 4 FLUTE END MILL SETS

Have a variety of milling jobs? Try these combo packs of both 2 and 4 flute end mills. Sizes include:  $\frac{1}{4}$ ",  $\frac{3}{8}$ ",  $\frac{1}{2}$ ",  $\frac{5}{8}$ " and  $\frac{3}{4}$ ".

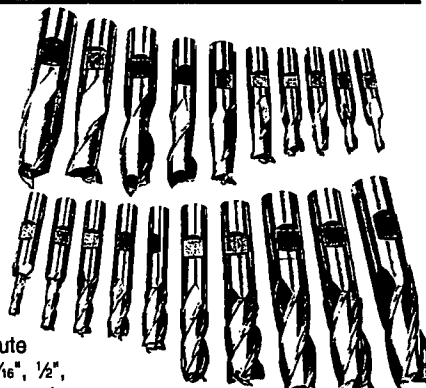
Includes a nice molded case.



MODEL G9759 H.S.S. ONLY **\$22<sup>95</sup>**

MODEL G9763 H.S.S./TiN ONLY **\$27<sup>95</sup>**

### 20-PC. 2 & 4 FLUTE TiN END MILL SET



This 20-piece set of HSS end mills features long-life titanium nitride coatings. Premium end mill set includes the following sizes in two and four flute styles:  $\frac{3}{16}$ ",  $\frac{1}{4}$ ",  $\frac{5}{16}$ ",  $\frac{3}{8}$ ",  $\frac{7}{16}$ ",  $\frac{1}{2}$ ",  $\frac{9}{16}$ ",  $\frac{5}{8}$ ",  $1\frac{1}{16}$ ",  $\frac{3}{4}$ ". Includes wood case.

MODEL G9760 WAS ~~\$69<sup>95</sup>~~ NOW ONLY **\$48<sup>95</sup>**

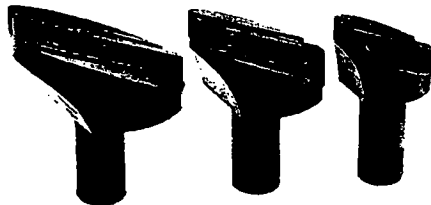
## END MILLS

### FLY CUTTER

This 2½" Fly Cutter accepts 4 carbide inserts (not included). Comes with an R-8 Arbor.



MODEL	TYPE	PRICE
G2861	Fly Cutter	\$59.95
G2863	MT #3 Arbor	\$12.95
G4051	Carbide Insert	\$2.49



### FLY CUTTER SETS

No more resharping end mills. These straight shank fly cutter sets are made of hardened steel and are designed to

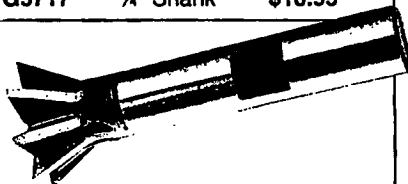
accept standard tool bits. G5716 includes ¾", 1½" and 1½" head diameters and accepts ¾", 1¼" and 1½" tool bits respectively. G5717 includes 1½", 2" and 2½" head diameters and accepts ¾" tool bits.

SEE TOOL BITS ON  
PAGE 384

MODEL	SIZE	PRICE
G5716	½" Shank	\$9.95
G5717	¾" Shank	\$16.95

### DOVETAIL CUTTERS

Dovetail cutters in three of the most popular sizes are meticulously crafted from durable high speed steel for outstanding accuracy and long service.



MODEL	SIZE	ANGLE	TYPE	PRICE
G4087	¾"	60°	M2	\$18.95
G4088	1½"	60°	M2	\$21.95
G4089	¾"	60°	M2	\$27.95

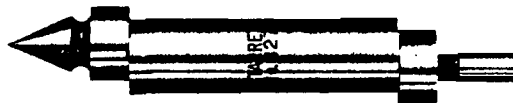
### WOODRUFF KEYSEAT CUTTERS

Designed specifically for cutting keyways, these precision high-speed steel Woodruff Keyseat Cutters are available in seven popular sizes. Cutters are sized by American Standard designations. Excellent values.

MODEL	AMER. STD.	DIA.	WIDTH	PRICE
G4080	505	⅝"	⅝"	\$9.95
G4081	605	⅝"	⅝"	\$9.95
G4082	506	¾"	⅝"	\$10.95
G4083	507	⅞"	⅝"	\$11.95
G4084	606	¾"	⅝"	\$11.95
G4085	607	⅞"	⅝"	\$11.95
G4086	707	⅞"	⅞"	\$11.95

### Starrett® EDGE FINDER

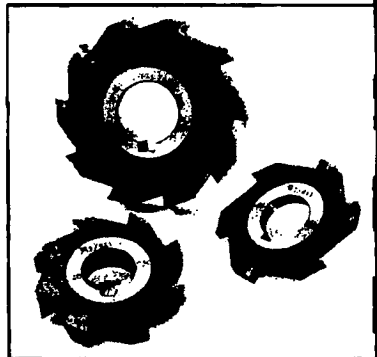
Locate work surfaces quickly and easily with this double ended edge finder. Simply place in a collet or chuck and traverse the worktable to obtain contact between the rotating edge of the finder and the work. Body diameter is .500". Comes in protective pouch.



MODEL H1005 ONLY **\$27.95**

### CARBIDE TIPPED SIDE MILL CUTTERS

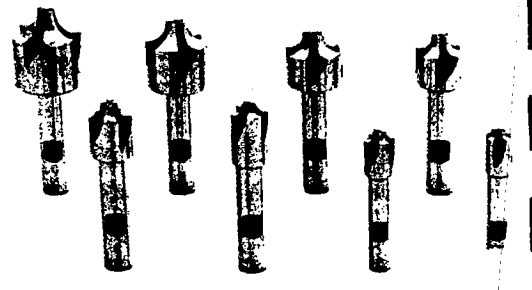
These carbide tipped cutters are specially designed for those tough to mill jobs where accuracy and finish are a must. They are supplied with keyed bores of 1 and 1¼". Please note, G9338 thru G9350 are for stainless steel. G9351 thru G9359 are for mild steel.



MODEL	SIZE	PRICE
G9338	3" x ¼" x 1" 8T	\$14.95
G9339	3" x ⅝" x 1" 8T	\$15.95
G9340	3" x ⅜" x 1" 8T	\$17.95
G9341	3" x ½" x 1" 8T	\$18.95
G9342	4" x ¼" x 1" 10T	\$22.95
G9343	4" x ⅝" x 1" 10T	\$24.95
G9344	4" x ⅜" x 1" 10T	\$26.95
G9345	4" x ½" x 1" 10T	\$29.95
G9346	4" x ½" x 1¼" 10T	\$32.95
G9347	4" x ⅝" x 1" 10T	\$34.95
G9348	4" x ⅝" x 1¼" 10T	\$36.95
G9349	4" x ¾" x 1" 10T	\$38.95
G9350	4" x ¾" x 1¼" 10T	\$39.95
G9351	3" x ¼" x 1" 6T	\$14.95
G9352	3" x ⅝" x 1" 6T	\$15.95
G9353	3" x ⅜" x 1" 6T	\$16.95
G9354	3" x ½" x 1" 6T	\$17.95
G9355	3" x ½" x 1" 6T	\$19.95
G9356	4" x ¼" x 1" 8T	\$22.95
G9357	4" x ⅝" x 1" 8T	\$24.95
G9358	4" x ⅜" x 1" 8T	\$26.95
G9359	4" x ⅜" x 1¼" 8T	\$29.95

### CORNER ROUNDING END MILL SETS

These M2 High Speed Steel Corner Rounding End Mill Sets are formed relieved type and can be re-sharpened many times without changing the radii. Model G9289 includes ⅛" r, ⅜" r, ½" r, ⅝" r, ¾" r, 1" r, 1¼" r and 1½" r end mills. Sizes ⅛" through 1½" have ⅜" shanks and sizes ⅜" through 1½" have ½" shanks. Model G9290 includes ⅜" r, ½" r, ⅝" r, ¾" r, 1" r, 1¼" r and 1½" r end mills with ¾" shanks. All sets include wooden stands.



MODEL	SIZE	PRICE
G9289	8-Pc., Small	\$89.95
G9291	4-Pc., Large	\$69.95
G9290	8-Pc., Large	\$159.95

## CHUCKING REAMERS

Used to finish holes to close tolerances, these American Standard High Speed Steel Chucking Reamers feature straight flutes with 45° chamfers for gradual starting loads. Each features a straight shank for machine mounted drill chucks. Dimensions are cutting diameter by cutting length by overall length.

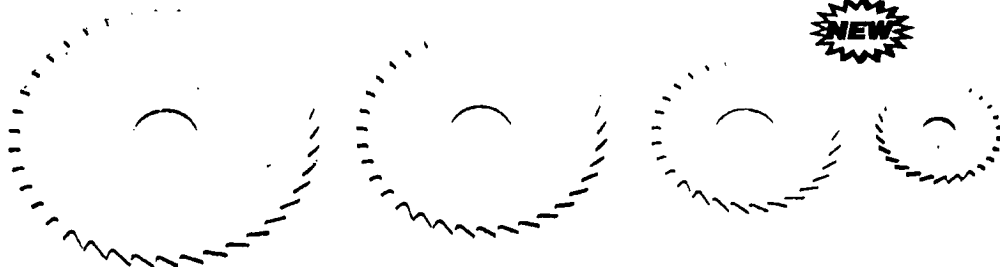


REAMERS

MODEL	SIZE	PRICE	MODEL	SIZE	PRICE	MODEL	SIZE	PRICE	MODEL	SIZE	PRICE
G9396	3/64" x 1/2" x 2 1/2"	\$4.45	G9414	2 1/64" x 1 1/2" x 6"	\$4.75	G9432	39/64" x 2 1/4" x 8"	\$8.95	G9450	57/64" x 2 5/8" x 10"	\$14.50
G9397	1/16" x 1/2" x 2 1/2"	\$4.45	G9415	1 1/32" x 1 1/2" x 6"	\$4.75	G9433	5/8" x 2 1/4" x 9"	\$8.95	G9451	29/32" x 2 5/8" x 10"	\$14.50
G9398	5/64" x 3/4" x 3"	\$4.45	G9416	23/64" x 1 3/4" x 7"	\$5.50	G9434	4 1/64" x 2 1/4" x 9"	\$8.95	G9452	59/64" x 2 5/8" x 10"	\$14.50
G9399	3/32" x 3/4" x 3"	\$4.25	G9417	3/8" x 1 3/4" x 7"	\$5.50	G9435	2 1/32" x 2 1/4" x 9"	\$10.95	G9453	15/16" x 2 5/8" x 10"	\$14.50
G9400	7/64" x 7/8" x 3 1/2"	\$4.25	G9418	25/64" x 1 3/4" x 7"	\$5.50	G9436	43/64" x 2 1/4" x 9"	\$10.95	G9454	6 1/64" x 2 5/8" x 10"	\$14.50
G9401	1/8" x 7/8" x 3 1/2"	\$3.95	G9419	13/32" x 1 3/4" x 7"	\$5.50	G9437	1 1/16" x 2 1/4" x 9"	\$10.95	G9455	3 1/32" x 2 5/8" x 10"	\$14.50
G9402	9/64" x 1" x 4"	\$3.95	G9420	27/64" x 1 3/4" x 7"	\$5.95	G9438	45/64" x 2 1/4" x 9"	\$10.95	G9456	63/64" x 2 3/4" x 10"	\$15.95
G9403	5/32" x 1" x 4"	\$3.95	G9421	7/16" x 1 3/4" x 7"	\$5.95	G9439	23/32" x 2 1/4" x 9"	\$10.95	G9457	1" x 2 3/4" x 10 1/2"	\$17.95
G9404	1 1/64" x 1 7/8" x 4 1/2"	\$3.95	G9422	29/64" x 1 3/4" x 7"	\$5.95	G9440	47/64" x 2 1/2" x 9"	\$10.95	G9458	1 1/32" x 2 3/4" x 10 1/2"	\$18.95
G9405	3/16" x 1 7/8" x 4 1/2"	\$3.95	G9423	15/32" x 1 3/4" x 7"	\$5.95	G9441	3/4" x 2 1/2" x 9 1/2"	\$12.95	G9459	1 1/16" x 2 3/4" x 10 1/2"	\$18.95
G9406	13/64" x 1 1/4" x 5"	\$3.95	G9424	3 1/64" x 2" x 8"	\$5.95	G9442	49/64" x 2 1/2" x 9 1/2"	\$12.95	G9460	1 3/32" x 2 3/4" x 10 1/2"	\$22.95
G9407	7/64" x 1 1/4" x 5"	\$3.95	G9425	1/2" x 2" x 8"	\$5.95	G9443	25/32" x 2 1/2" x 9 1/2"	\$12.95	G9461	1 1/8" x 2 7/8" x 11"	\$22.95
G9408	15/64" x 1 1/2" x 6"	\$3.95	G9426	33/64" x 2" x 8"	\$5.95	G9444	5 1/64" x 2 1/2" x 9 1/2"	\$12.95	G9462	1 5/32" x 2 7/8" x 11"	\$23.95
G9409	1/4" x 1 1/2" x 6"	\$4.75	G9427	17/32" x 2" x 8"	\$5.95	G9445	13/16" x 2 1/2" x 9 1/2"	\$12.95	G9463	1 3/16" x 2 7/8" x 11"	\$23.95
G9410	17/64" x 1 1/2" x 6"	\$4.75	G9428	35/64" x 2" x 8"	\$5.95	G9446	53/64" x 2 1/2" x 9 1/2"	\$12.95	G9464	1 7/32" x 2 7/8" x 11"	\$24.95
G9411	9/32" x 1 1/2" x 6"	\$4.75	G9429	9/16" x 2" x 8"	\$7.95	G9447	27/32" x 2 1/2" x 9 1/2"	\$12.95	G9465	1 1/4" x 3" x 11 1/2"	\$24.95
G9412	19/64" x 1 1/2" x 6"	\$4.75	G9430	37/64" x 2" x 8"	\$7.95	G9448	55/64" x 2 5/8" x 9 1/2"	\$12.95			
G9413	5/16" x 1 1/2" x 6"	\$4.75	G9431	19/32" x 2" x 8"	\$7.95	G9449	7/8" x 2 5/8" x 10"	\$12.95			

## HSS SLITTING SAWS

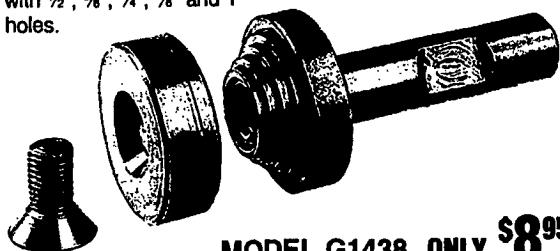
These have to be the best value for High Speed Steel Slitting Saws on the market! We offer a good range of sizes and tooth count that will cover just about any job, whether slitting thin wall tubing, sheets or screw heads. These saws are hollow ground to minimize friction and improve accuracy.



MODEL	SIZE	PRICE	MODEL	SIZE	PRICE	MODEL	SIZE	PRICE	MODEL	SIZE	PRICE
G9466	2" x 1/16" x 1 1/2" 28T	\$2.95	G9477	3" x 1/16" x 1" 30T	\$3.25	G9488	4" x 1/16" x 1" 36T	\$8.95	G9499	5" x 1/8" x 1" 40T	\$15.95
G9467	2" x 1/8" x 1 1/2" 28T	\$2.95	G9478	3" x 3/32" x 1" 30T	\$3.25	G9489	4" x 3/32" x 1" 36T	\$8.95	G9500	5" x 3/16" x 1" 40T	\$15.95
G9468	2 1/2" x 3/64" x 3/8" 28T	\$2.95	G9479	3" x 1/8" x 1" 30T	\$3.25	G9490	4" x 1/8" x 1" 36T	\$8.95	G9501	6" x 3/64" x 1" 40T	\$19.95
G9469	2 1/2" x 1/32" x 7/8" 28T	\$2.95	G9480	3 1/2" x 1/32" x 1" 30T	\$3.95	G9491	4 1/2" x 1/32" x 1" 36T	\$9.95	G9502	6" x 1/16" x 1" 40T	\$19.95
G9470	2 1/2" x 3/64" x 7/8" 28T	\$2.95	G9481	3 1/2" x 3/64" x 1" 30T	\$3.95	G9492	4 1/2" x 3/64" x 1" 36T	\$9.95	G9503	6" x 3/32" x 1" 40T	\$19.95
G9471	2 1/2" x 1/16" x 7/8" 28T	\$2.95	G9482	3 1/2" x 1/16" x 1" 30T	\$3.95	G9493	4 1/2" x 1/16" x 1" 36T	\$9.95	G9504	6" x 1/8" x 1" 40T	\$19.95
G9472	2 1/2" x 3/32" x 7/8" 28T	\$2.95	G9483	3 1/2" x 3/32" x 1" 30T	\$3.95	G9494	4 1/2" x 3/32" x 1" 36T	\$9.95	G9505	6" x 3/16" x 1" 40T	\$24.95
G9473	2 1/2" x 1/8" x 7/8" 28T	\$2.95	G9484	3 1/2" x 1/8" x 1" 30T	\$3.95	G9495	4 1/2" x 1/8" x 1" 36T	\$9.95	G9506	8" x 1/8" x 1" 42T	\$39.95
G9474	3" x 1/64" x 1" 30T	\$3.25	G9485	4" x 1/64" x 1" 36T	\$8.95	G9496	5" x 3/64" x 1" 40T	\$15.95	G9507	8" x 3/16" x 1" 42T	\$39.95
G9475	3" x 1/32" x 1" 30T	\$3.25	G9486	4" x 1/32" x 1" 36T	\$8.95	G9497	5" x 1/16" x 1" 40T	\$15.95			
G9476	3" x 3/64" x 1" 30T	\$3.25	G9487	4" x 3/64" x 1" 36T	\$8.95	G9498	5" x 3/32" x 1" 40T	\$15.95			

## SLITTING SAW ARBOR

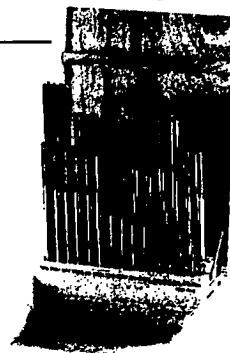
A very versatile tool that helps adapt your slitting saws to a variety of machines. 1/2" shank fits all standard chucks and collets. Will take slitting saws with 1/2", 5/8", 3/4", 7/8" and 1" arbor holes.



MODEL G1438 ONLY \$8.95

## CHUCKING REAMER SET

This is a nicely made fractional High Speed Steel Chucking Reamer Set. Precision ground to close tolerances, they come with laser etched size markings. Sizes range from 1/16" to 1/2" by 64ths. Supplied with an indexed box. Very affordable precision.



MODEL G9847

ONLY \$109.95

CALL 24 HOURS A DAY FROM ANYWHERE IN THE U.S.A. 1-800-523-4777

## TAPS & DIES

Screw type die stock securely holds round dies with three adjustable setscrews. Sized for round dies of the diameters listed.

### 3 SCREW DIE STOCK

MODEL	DIA.	PRICE
G6808	5/8"	ONLY \$1.95
G6809	13/16"	ONLY \$2.25
G6810	1"	ONLY \$2.49
G6811	1-1/2"	ONLY \$2.99
G6812	2"	ONLY \$5.49

### ADJUSTABLE TAP & REAMER WRENCHES

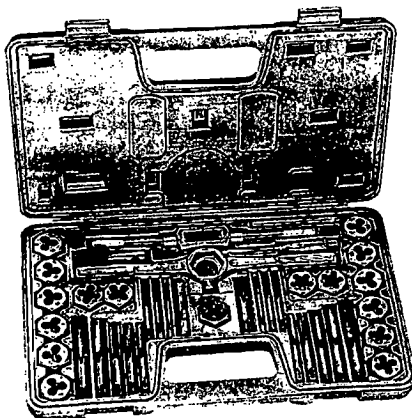
For use with hand taps and pipe taps. Adjustable handle quickly and securely locks taps in place for efficient control.

MODEL	SIZE	PRICE
G6813	0	ONLY \$2.69
G6814	4	ONLY \$3.49
G6815	5	ONLY \$4.29
G6816	6	ONLY \$7.95
G6817	7	ONLY \$10.95

### 40-PC. TAP & DIE SET

Set includes coarse and fine thread numbered taps and dies from #4 - 40 to #12 - 24 and fractional taps and dies from 1/4" - 28 to 1/2" - 20, 1/8" - 27 NPT tap and die, thread gauge, tap handle, die handle, small tap chuck and molded case.

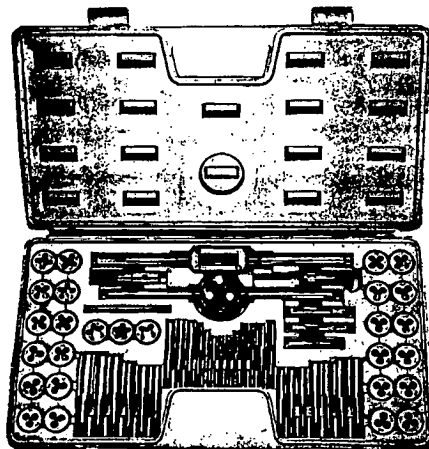
MODEL G5476  
ONLY \$36<sup>95</sup>



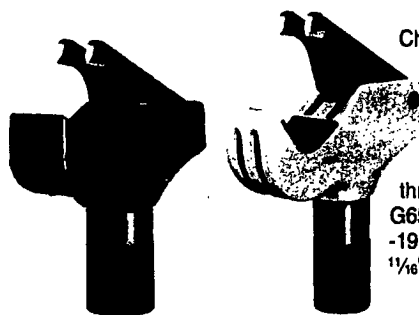
### 60-PC. TAP & DIE SET

Same set as above, but also includes metric taps and dies from M3 x .5 to M12 x 1.75. Fine quality!

MODEL G4199  
ONLY \$59<sup>95</sup>



## UNIVERSAL THREAD RESTORERS



Chase threads the easy way with these Univ Thread Restorers. L. adjusts automatically to any right or left hand, standard and metric thread diameter and pitch. G6545 handles 1/4" - 3/4" and 6 - 19mm and G6546 handles 1/16" - 1 1/2" and 17 - 38mm.

Universal Thread Restorer - Small



MODEL G6545 ONLY \$37<sup>95</sup>

Universal Thread Restorer - Large

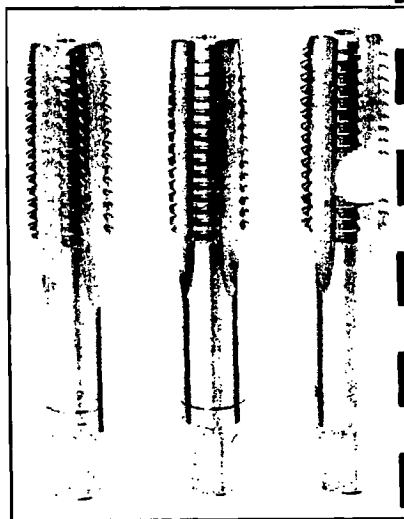
MODEL G6546 ONLY \$49<sup>95</sup>

MODEL	ACCESSORIES	PRICE
G6547	Small Replacement Blades	\$10.95
G6548	Large Replacement Blades	\$12.95

### 3-PC. TAP SETS

High Speed Steel hand taps in handy three-piece sets feature precision ground, right hand cutting threads and relief ground flanks. Each set contains one of each taper, plug and bottoming taps.

HIGH SPEED  
STEEL!



MODEL	SIZE	PRICE
G9379	4 - 40	\$2 <sup>95</sup>
G9380	6 - 32	\$2 <sup>95</sup>
G9381	3/16" - 24	\$2 <sup>95</sup>
G9382	7/32" - 24	\$2 <sup>95</sup>
G9383	1/4" - 20	\$2 <sup>95</sup>
G9384	5/16" - 18	\$3 <sup>75</sup>
G9385	3/8" - 16	\$4 <sup>25</sup>
G9386	7/16" - 14	\$5 <sup>95</sup>
G9387	1/2" - 13	\$6 <sup>95</sup>
G9388	9/16" - 12	\$8 <sup>95</sup>
G9389	5/8" - 11	\$9 <sup>95</sup>
G9390	3/4" - 10	\$15 <sup>95</sup>
G9391	7/8" - 9	\$24 <sup>95</sup>
G9392	1" - 8	\$27 <sup>95</sup>
G9393	1 1/8" - 7	\$39 <sup>95</sup>
G9394	1 1/4" - 7	

## H.S.S. TAP & DIE SETS

**TAPS & DIES**

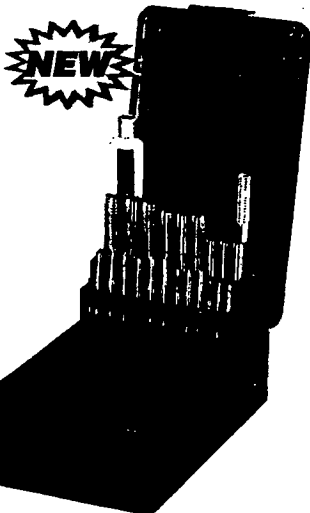
### 29-PC. HSS DRILL & TAP SET - METRIC

Have you ever needed a metric tap and then learn you don't have the right drill bit for it? We offer a set of taps with all the drill bits necessary to produce perfectly tapped holes. Each size has 3 taps which include starting taper tap, a secondary intermediate tap and a finishing bottom tap. These are great taps for those hard to tap materials. Sizes: M3-0.5, M4-0.7, M5-0.8, M6-1.0, M8-1.25, M10-1.5, M12-1.75.

**INCLUDES  
TAP HANDLE**

MODEL G9766

ONLY **\$37<sup>50</sup>**



### 60-PC. HSS TAP & DIE SET INCH / METRIC

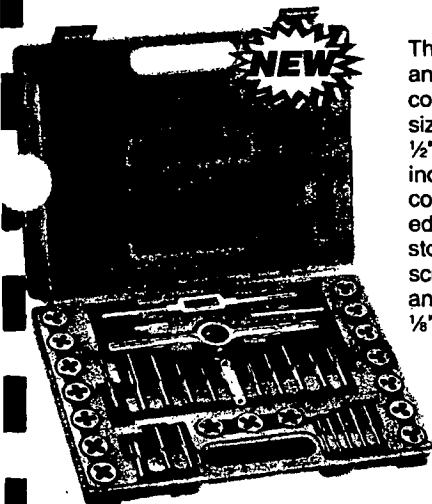


This Tap and Die Set has about every size SAE and metric threads a serious hobbyist will need. This high speed steel set includes taps and dies in inches ranging from 4-40 to 1/2"-13. The metric range is M3- 0.5 to M12-1.75. Kit also includes: 1/8"-27 National Pipe Thread, metric and inch pitch gauges, 2 tap handles, 1 die stock holder, screwdriver and case.

MODEL G9770

ONLY **\$89<sup>95</sup>**

### 39-PC. HSS TAP & DIE SET - INCH

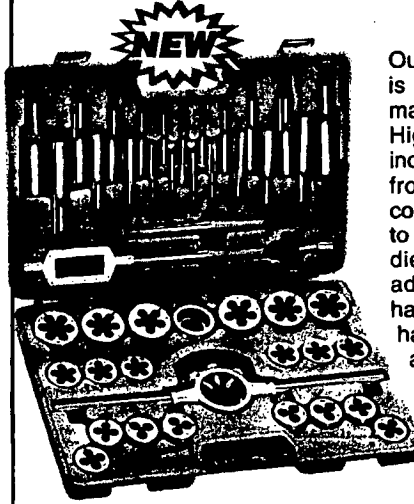


This High Speed Steel Tap and Die Set has the most common inch sizes. The 16 sizes range from 4-40 to 1/2"-13. All fractional taps include both, fine and coarse threads. Also included: 2 tap handles, 1 die stock handle, pitch gauge, screwdriver, carrying case and 1 National Pipe Thread 1/8"-27 tap and die.

MODEL G9767

ONLY **\$59<sup>95</sup>**

### 44-PC. HSS TAP & DIE SET - INCH



Our best Tap and Die Set is a must for any serious machinist or job shop. This High Speed Steel set includes inch sizes ranging from 1/4"-20 to 1"-8 in coarse threads and 1/4"-28 to 1"-14 in fine threads. All die stock is split and adjustable through the handle. Set includes 2 tap handles, die stock handle and sleeve, screwdriver and carrying case.

MODEL G9768

ONLY **\$139<sup>95</sup>**

### 39-PC. HSS TAP & DIE SET - METRIC



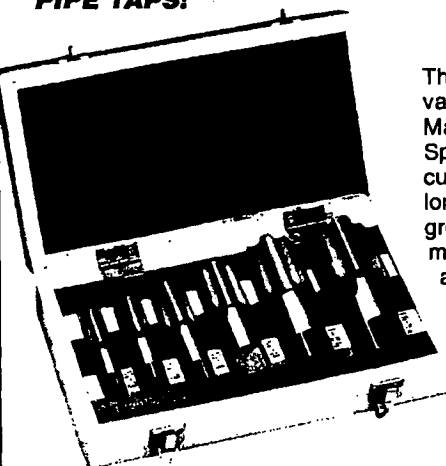
This High Speed Steel Tap and Die Set has the most common metric sizes. The 16 sizes range from M3-0.5 to M12-1.75. The dies are of the split adjustable type. Also included: 2 tap handles, 1 die stock handle, pitch gauge, screwdriver, carrying case and 1 National Pipe Thread 1/8"-27 tap and die.

MODEL G9769

ONLY **\$59<sup>95</sup>**

### 6-PC. NPT TAP SET

PIPE TAPS!



This set is one of the best values offered anywhere! Made of quality High Speed Steel so they will cut faster and stay sharp longer, they are precision ground to close tolerances, making them as efficient as any tap on the market. Includes: 1/4"-18, 3/8"-18, 1/2"-14, 3/4"-14, 1"-11 1/2 and 1 1/4"-11 1/2 taps.

MODEL H0465

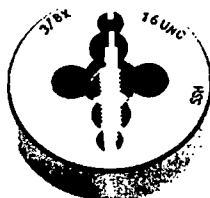
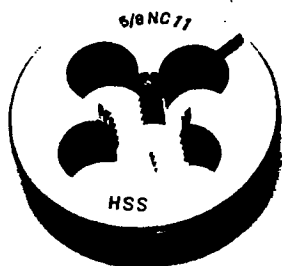
ONLY **\$44<sup>95</sup>**

# TAPS & DIES

## H.S.S. ROUND ADJUSTABLE SPLIT DIES

Fractional and machine screw adjustable split dies give you the flexibility you demand.

We have changed suppliers and are now buying these dies directly from the factory. Our lower prices reflect the savings that are being passed on to you.



## NEW, LOWER PRICES!

### 1 3/16" DIA. H.S.S. DIES RIGHT HAND

SIZE	MODEL	PRICE
6 - 32	G6934	\$2.25
6 - 40	G6935	\$2.25
8 - 32	G6936	\$2.25
10 - 24	H0544	\$2.25
10 - 32	H0545	\$2.25
12 - 24	G6937	\$2.25
12 - 28	G6938	\$2.25
1/4 - 20	G6939	\$2.25
1/4 - 28	G6940	\$2.25
5/16 - 18	H0546	\$2.25
5/16 - 24	G6941	\$2.25

### 1 1/2" DIA. H.S.S. DIES RIGHT HAND

SIZE	MODEL	PRICE
1/4 - 20	G6942	\$3.95
1/4 - 28	G6943	\$3.95
5/16 - 18	G6944	\$3.95
5/16 - 24	G6945	\$3.95
3/8 - 16	G6946	\$3.95
3/8 - 24	G6947	\$3.95
7/16 - 14	G6948	\$3.95
7/16 - 20	G6949	\$3.95
1/2 - 13	G6950	\$3.95
1/2 - 20	G6951	\$3.95
9/16 - 12	G6952	\$3.95
9/16 - 18	G6953	\$3.95
5/8 - 11	G6954	\$3.95
5/8 - 18	G6955	\$3.95
3/4 - 10	G6958	\$3.95
3/4 - 16	G6959	\$3.95

### 2" DIA. H.S.S. DIES RIGHT HAND

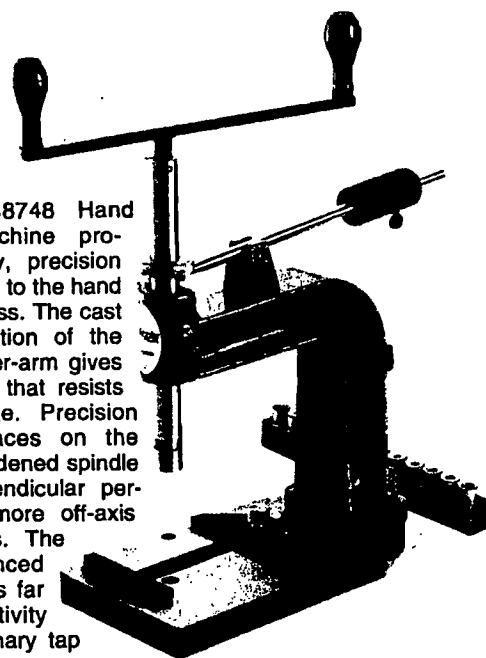
SIZE	MODEL	PRICE
1/2 - 13	G6960	\$6.95
1/2 - 20	G6961	\$6.95
9/16 - 12	G6962	\$6.95
9/16 - 18	G6963	\$6.95
5/8 - 11	G6964	\$6.95
5/8 - 18	G6965	\$6.95
3/4 - 10	G6968	\$6.95
3/4 - 16	G6969	\$6.95
7/8 - 9	G6970	\$6.95
7/8 - 14	G6971	\$6.95
1 - 8	H0547	\$6.95
1 - 12	H0548	\$6.95



### 1 1/2" DIA. H.S.S. DIES LEFT HAND THREAD

SIZE	MODEL	PRICE
1/4 - 20	H0549	\$4.95
1/4 - 28	H0550	\$4.95
5/16 - 18	H0551	\$4.95
5/16 - 24	H0552	\$4.95
3/8 - 16	H0553	\$4.95
3/8 - 24	H0554	\$4.95
7/16 - 14	H0555	\$4.95
7/16 - 20	H0556	\$4.95
1/2 - 13	H0557	\$4.95
1/2 - 20	H0558	\$4.95

## HAND TAPPING MACHINE



Our new G8748 Hand Tapping Machine provides stability, precision and sensitivity to the hand tapping process. The cast iron construction of the base and over-arm gives a rigid setup that resists tool breakage. Precision ground surfaces on the base and hardened spindle means perpendicular perfection; no more off-axis tapped holes. The counter-balanced spindle allows far more sensitivity than an ordinary tap handle.

Other features include: quick setting work holder, 9 tap holders that snap-lock into spindle, rack for tap holders, adjustable height collar and off-set handles for quick return. Can be bolted down to use as a tapping station! Collet sizes include: #6, #8, #10, 1/4", 5/16", 7/16", 3/8", 1/2" and 5/8".

### SPECIFICATIONS:

Overall dimensions	22 1/2" x 12 1/2" x 14"
Throat capacity	7 3/8"
Height capacity	7 1/8"
Table size	6 1/2" x 12 1/2"
Work holder maximum opening	6"
Approx. Shipping weight	45 lbs.

MODEL G8748 ONLY **\$69<sup>95</sup>**

## TAPSTICK™



Apply this handy lubricant to taps, drills and dies to keep tools clean and cool during use. Available in convenient twist stick. 0.5 oz.

MODEL G8003 ONLY **\$2<sup>79</sup>**



## MACHINING FLUID

This biostable, heavy-duty soluble oil for heavy-duty machining applications provides stable pH performance. It resists bacteria and fungal growth, rancidity and unpleasant odors. Can be used in light machining to difficult applications and with proper maintenance and filtration, its sump life is virtually unlimited. One gallon concentrate mixes with water to make 21 gallons for general machining and 11 to 16 gallons for heavy machining.



MODEL G7897 ONLY **\$29<sup>95</sup>**



## CUTTING/TAPPING FLUID

This cutting/tapping fluid helps cut through the hardest metals without tool wear by clinging to the tool surface. Our guys in the shop say this is the best they've tried!

13.75 oz. Aerosol **\$7<sup>95</sup>**  
MODEL G7896 ONLY

2 oz. Aerosol **\$3<sup>49</sup>**  
MODEL G8004 ONLY



**CUTTING  
FLUIDS**



## Grizzly CUTTING & TAPPING FLUID

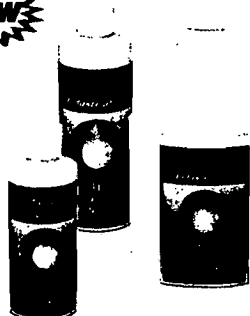
This cutting and tapping fluid is non-ozone depleting and is safe on aluminum and exotic alloys such as stainless steel, hastelloy, inconel and titanium. The engineered formula clings to the cutting tool and provides strong lubrication during cutting and tapping.



13.75 oz. Grizzly® Cutting & Tapping Fluid  
MODEL H1412 ONLY **\$1<sup>75</sup>**

6 oz. Grizzly® Cutting & Tapping Fluid  
MODEL H1413 ONLY **\$4<sup>95</sup>**

1 Gal. Grizzly® Cutting & Tapping Fluid  
MODEL H1414 ONLY **\$29<sup>95</sup>**



## A-9 ALUMINUM CUTTING FLUID



Eases all operations on aluminum: • Milling, broaching, drilling, threading, tapping, reaming, sawing, etc. • Contains a anti-mist component for a healthier work environment • Contains a scientific blend of chemicals that attach themselves to aluminum surfaces, forming an extreme-pressure boundary lubricant between tool and work surface.

4 oz. A-9 Aluminum Cutting Fluid  
MODEL H1466 ONLY **\$1<sup>75</sup>**

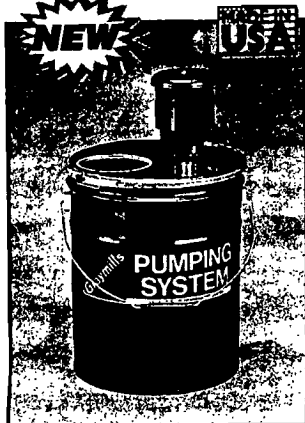
1 Pint A-9 Aluminum Cutting Fluid  
MODEL H1467 ONLY **\$4<sup>95</sup>**

1 Gallon A-9 Aluminum Cutting Fluid  
MODEL H1468 ONLY **\$29<sup>95</sup>**



## 5-GALLON ROUND TANK SYSTEM

This tank system can be used for light oils and other liquids to 150 SSU. Features include: 1/2 HP, 1500 RPM, 1/2" NPT discharge pump with 6' cord, plug and switch, 4' neoprene 1/2" ID hose, 1/4" ID flexible metal nozzle and valve and mesh screen bowl. Approximate gallons per minute of water (specific gravity of 1) at 4' of head is 10 GPM, 6' of head is 8 GPM, 8' of head is 5 GPM and 9' of head is 2 GPM. Five-gallon round tank measures 12" diameter and 17 1/2" overall height including pump motor.



MODEL H1419 ONLY **\$229<sup>95</sup>**

## RECTANGULAR PUMP AND TANK SYSTEMS

Graymill knows that pump and tank systems will see a lot of hard work and rough treatment during their long working lives. That's why they design their systems with the rugged dependability you need to get the job done day in and day out. All tanks are durably constructed of cold rolled ASTM A-366 steel. To assure maximum strength and uniformity, tanks are assembled with jigs and fixtures and spot welded prior to MIG seam welding. All exterior tank surfaces are cleaned with phosphatized wash prior to painting for improved adhesion. Every tank is then dye penetrant-tested for 24 hours. Not even a pinhole leak can slip past this procedure!

### Six-gallon Tank System Specifications:

- 1/2 HP, 1725 RPM motor
- Maximum viscosity - 500 SSU
- 1/2" NPT discharge
- 10 GPM @ 4' and 6' head, 7 GPM @ 8' head

### Ten-gallon Tank System Specifications:

- 1/2 HP, 1500 RPM motor
- Maximum viscosity - 150 SSU
- 1/2" NPT discharge
- 8 GPM @ 6' head, 5 GPM @ 8' head



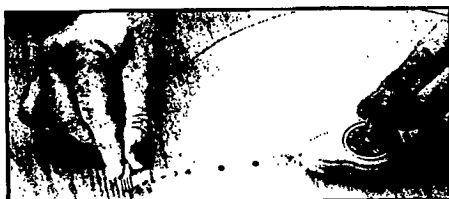
MODEL H1417 6-Gallon Tank System ONLY **\$249<sup>95</sup>**

MODEL H1418 10-Gallon Tank System ONLY **\$299<sup>95</sup>**

## MEASURING TOOLS

### BEAM COMPASS

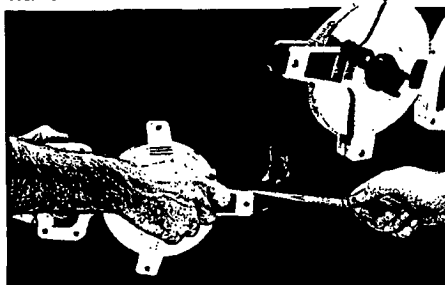
This compact, self measuring Beam Compass draws radii from  $3\frac{1}{2}$ " to 72" with an accuracy of plus or minus 2mm. Just set the tape at the desired radius and locate the center point. Features a positive locking tape that retracts into the compass body. The Beam Compass also works as a straight-line marking gauge. This item should be in every tool box!



MODEL G6750 ONLY \$29<sup>95</sup>

### FIBERGLASS TAPES

These fiberglass tapes are tough, flexible and won't kink or stretch. Designed for all types of weather, these tapes will stand up to the toughest field conditions. Both feature reinforced leader hooks and lightweight reels with locking crank handles.



	PRICE EACH	TWO OR MORE
100' x $\frac{1}{2}$ " Fiberglass Continuous Tape MODEL G7864	\$19 <sup>95</sup>	\$17 <sup>95</sup>
200' x $\frac{1}{2}$ " Fiberglass Continuous Tape MODEL G7865	\$29 <sup>95</sup>	\$27 <sup>95</sup>

### ANGLE FINDER PLUS LEVEL

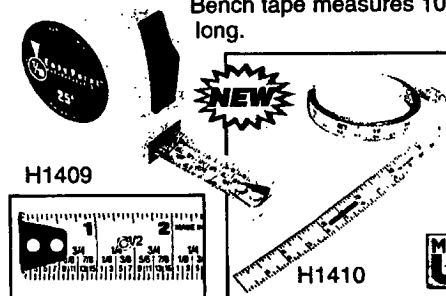
Take the guess work out of setting tilting blades and tables with this compact angle finder. Instantly measures angles in any quadrant from 0-90°. Also great for checking plumb and level in tight quarters. Accurate to half a degree.



MODEL G5412 ONLY \$5<sup>95</sup>

### CENTERPOINT® TAPES

To measure and mark easily and accurately, the 1" x 25' EasyPoint™ Tape Measure identifies all fractions including sixteenths of an inch — has a tough nylon coated blade for superior abrasion resistance and easy readability, ABS housing, active bumper and triple rivet hook connection. Self adhesive H1410 Bench tape measures 10' long.



H1409

H1410

MODEL H1409 EasyPoint™ ONLY \$10<sup>95</sup>  
MODEL H1410 Bench Tape ONLY \$7<sup>95</sup>

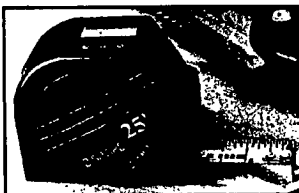
The 1" wide, 25 foot Construction Grade™ tape has a heavy-duty, steel locking blade reinforced tip, tough ABS case and standard tape markings including foot layout and the new center-finding eye. The  $\frac{3}{4}$ " wide, five meter tape with reinforced tip has standard centimeter and millimeter markings.



MODEL G9569 25 Ft. ONLY \$16<sup>95</sup>  
MODEL H1255 5 Meter ONLY \$8<sup>95</sup>

### Starrett DIGITAPE™

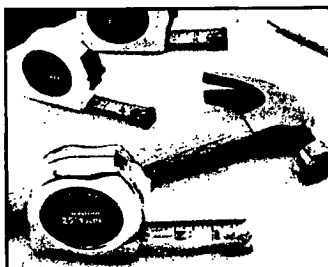
The Digitape™ electronic tape provides a clear digital readout of your exact measurement — in feet, inches, fractions or centimeters. With built-in memory.



MODEL G4566  $\frac{3}{4}$ " x 16' ONLY \$29<sup>95</sup>  
MODEL G3757 1" x 25' ONLY \$34<sup>95</sup>

### Grizzly Industrial MEASURING TAPES

Tough enough for the toughest contractor, these tapes feature superior blade extension, smooth speed locking device, easy to read blades with stud markings and reinforced triple riveted end hooks. G7863 also has a nylon coated blade for long life.



	PRICE EACH	TWO OR MORE
12' x $\frac{5}{8}$ " Tape Measure (Yellow Color) MODEL G7860	\$4 <sup>95</sup>	\$3 <sup>95</sup>
16' x $\frac{3}{4}$ " Tape Measure (Yellow Color) MODEL G7861	\$7 <sup>95</sup>	\$6 <sup>95</sup>
25' x 1" Tape Measure (Yellow Color) MODEL G7862	\$8 <sup>95</sup>	\$7 <sup>95</sup>
25' x 1" Tape Measure (Chrome Finish) MODEL G7863	\$8 <sup>95</sup>	\$7 <sup>95</sup>

### CIRCUMFERENCE / DIAMETER RULE

Dual reading rule measures diameters up to 24" on one side and equivalent circumferences up to 75" on the other, eliminating the need for circumference calculations. Perfect for sheet metal workers and other mechanics.  $\frac{3}{4}$ " wide and folds to 12"



NEW

MADE IN USA

MODEL H1037 ONLY \$79<sup>95</sup>

### WOOD RULER

Six foot folding rule features rust resistant brass plated spring steel joints for reliable folding and locking, left to right reading from both ends, solid maple construction and deep embossed, easy to read numerals. 16" stud centers are marked in red.

NEW

MADE IN USA

Starrett



MODEL H1019 ONLY \$12<sup>95</sup>

## TAP WRENCHES

Starrett No. 91 Series tap wrenches are precision made, well proportioned and nicely finished. H1012 is 6" long and has a tap size capacity of  $\frac{1}{16}$ " -  $\frac{1}{4}$ ". H1013 is 9" long and has a tap size capacity of  $\frac{3}{16}$ " -  $\frac{1}{2}$ ". H1014 is 12" long and has a tap size capacity of  $\frac{1}{4}$ " -  $\frac{3}{8}$ ". H1015 is 16" long and has a tap size capacity of  $\frac{5}{16}$ " -  $\frac{3}{4}$ ".

**Starrett**

MADE IN  
USA

**NEW**



$\frac{1}{16}$ " - $\frac{1}{4}$ " Cap		
MODEL H1012	ONLY	\$26 <sup>50</sup>
$\frac{3}{16}$ " - $\frac{1}{2}$ " Cap		
MODEL H1013	ONLY	\$39 <sup>95</sup>
$\frac{1}{4}$ " - $\frac{3}{8}$ " Cap		
MODEL H1014	ONLY	\$59 <sup>95</sup>
$\frac{5}{16}$ " - $\frac{3}{4}$ " Cap		
MODEL H1015	ONLY	\$81 <sup>95</sup>

This well designed tap wrench is ideal for holding smaller diameter taps, drills, reamers and other tools up to  $\frac{1}{4}$ " in diameter. Length is 3 $\frac{3}{8}$ ".

0 - $\frac{1}{4}$ " Cap		
MODEL H1016	ONLY	\$11 <sup>95</sup>

## RULE HOLDER

Designed for patternmakers, toolmakers and machinists, this rule holder will hold any rule or combination square blade from  $\frac{3}{4}$ " to 1 $\frac{1}{16}$ " wide in an upright position for use in transferring measurements with surface gauges. Measures 3 $\frac{1}{2}$ " long by 2 $\frac{1}{2}$ " wide. (Rule not included)



**NEW**

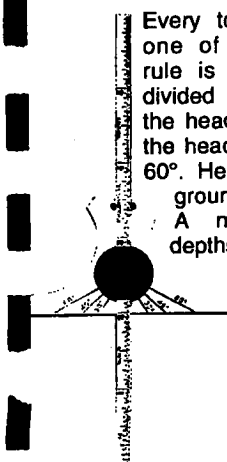
MADE IN  
USA

**Starrett**

MODEL H1022	ONLY	\$57 <sup>95</sup>
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## DEPTH & ANGLE GAUGE

Every tool box should have one of these. Tempered 6" rule is accurately machined divided and smoothly fitted to the head. Rule also pivots on the head to read 30°, 45° and 60°. Head is hardened steel, ground and nicely polished. A must for measuring depths inside tight places.



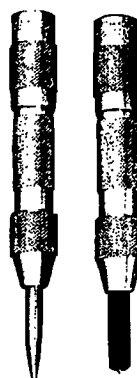
MADE IN  
USA

**Starrett**

MODEL G6457	ONLY	\$37 <sup>95</sup>
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## CENTER PUNCHES

One-handed center punching! Just press down on the handle until the built-in mechanism strikes a blow. The force is adjustable with just a turn of the knurled cap.



MADE IN  
USA

**Starrett**

Auto Center Punch		
MODEL G6464	ONLY	\$21 <sup>95</sup>
Hinge-Locating Center Punch		
MODEL G6465	ONLY	\$23 <sup>95</sup>

## CENTER PUNCH

This one-handed punch has a mechanism which automatically strikes a blow when downward pressure is applied, so no hammer is needed. The force of the blow is regulated by the adjustable knurled cap. 5 $\frac{1}{4}$ " long. See the optional spacing attachment below.



**NEW**

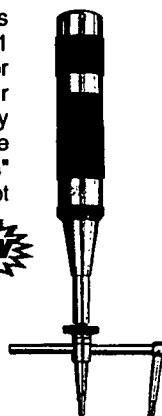
MADE IN  
USA

**Starrett**

MODEL H1011	ONLY	\$27 <sup>95</sup>
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## SPACING ATTACHMENT

This handy attachment is used with the H1011 Automatic Center Punch for accurately spaced center distances. Screws instantly into the punch shank in place of regular point. Range is  $\frac{1}{8}$ " - 1 $\frac{1}{4}$ ". (Center Punch not included).



**NEW**

MADE IN  
USA

**Starrett**

MODEL H1004	ONLY	\$34 <sup>95</sup>
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## DRILL POINT GAUGE

Designed specifically for use in drill grinding, this gauge provides a quick, accurate way for determining the correct drill point angle of 59° and the correct length of drill lips necessary for clean drilling at maximum feeds and speeds. Rule measures 6".



**NEW**

MADE IN  
USA

**Starrett**

MODEL H1007	ONLY	\$31 <sup>95</sup>
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## TAP AND DRILL GAUGE

This highly useful gauge shows at a glance the correct size tap drill for any common size machine screw tap in National Fine or National Course thread series. Hardened and tested.

TAP SIZE	DRILL SIZE	SAVER
1/16"	1/16"	1/16"
1/8"	1/8"	1/8"
3/16"	3/16"	3/16"
1/4"	1/4"	1/4"
5/16"	5/16"	5/16"
3/8"	3/8"	3/8"
7/16"	7/16"	7/16"
1/2"	1/2"	1/2"
9/16"	9/16"	9/16"
5/8"	5/8"	5/8"
3/4"	3/4"	3/4"
7/8"	7/8"	7/8"
1"	1"	1"
1 1/8"	1 1/8"	1 1/8"
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## MEASURING TOOLS

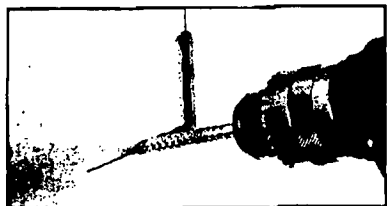
### SLIDING BEVEL

This brass and mahogany beauty is a delight to look at and a pleasure to use. Its 8" stainless steel blade can be adjusted to any angle and locked for repeated use. You'll be passing this one along to your grand kids!

MODEL G3457 ONLY \$16<sup>95</sup>

### DRILL SAW

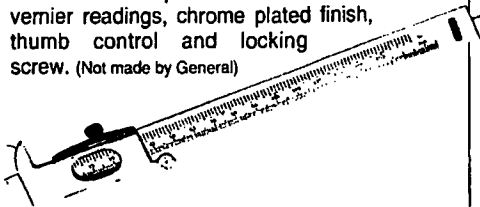
Handy for quick inside cuts in plywood, plastics, brass and aluminum. Just place the bit in your portable drill and bore into your workpiece. The cutting surface is cross-milled for quick, clog-free operation.



MODEL G3459 ONLY \$6<sup>95</sup>

### 6" VERNIER CALIPER

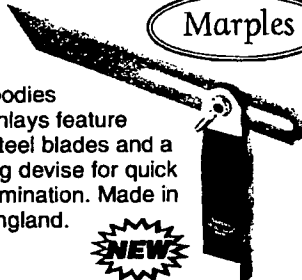
This inexpensive caliper is handy for quick measurements up to 6". Features inch and mm vernier readings, chrome plated finish, thumb control and locking screw. (Not made by General)



MODEL G5621 ONLY \$3<sup>95</sup>

### ROSEWOOD SLIDING BEVELS

These Sliding Bevels with rosewood bodies and brass inlays feature hardened steel blades and a lever-locking device for quick angle determination. Made in Sheffield England.



**NEW**

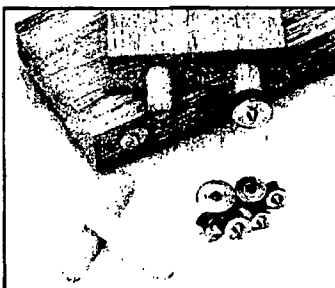
MODEL H1479 9" ONLY \$25<sup>95</sup>  
MODEL H1480 10½" ONLY \$29<sup>95</sup>

## GENERAL®



### DOWEL & MORTISE CENTERS

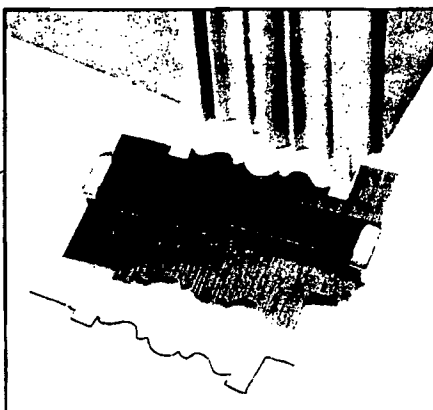
These brass plated dowel and mortise centers are just the tool for locating dowel points quickly and accurately. The set includes four mortise centers: ⅜", ¼", ⅝", ⅜" O.D. and four dowel centers: ¼", ⅜", ⅝", and ½" I.D.



MODEL G3465 ONLY \$4<sup>47</sup>

### CONTOUR GAUGE

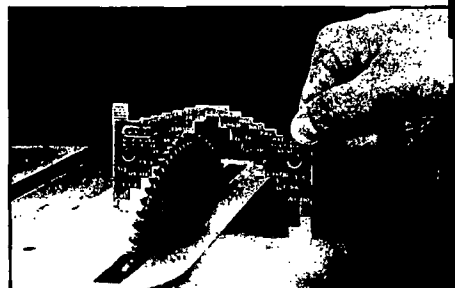
Duplicate custom shapes and contours easily. This gauge measures contours up to 6" across. One inch increment markings on the brass and enameled body make contour measurements simple. Stainless steel pins for durability.



MODEL G3466 ONLY \$6<sup>95</sup>

### STEP GAUGE FOR TABLE SAWS

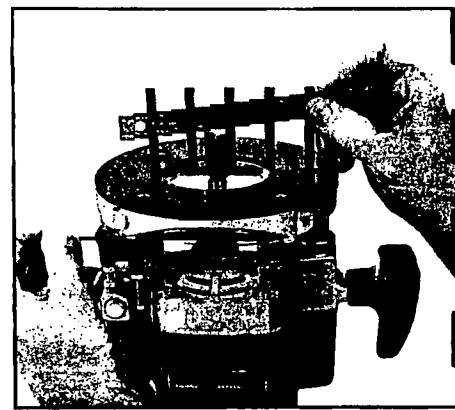
Make precision table saw cuts ever with this solid brass step gauge. Just place the step gauge over the saw blade and raise the blade until it contacts the height you choose. Also includes easy-to-read decimal equivalents.



MODEL G3467 ONLY \$4<sup>95</sup>

### STEP GAUGE FOR ROUTERS

Use this solid brass router gauge to set consistent router bit depth. Measures in ⅛" increments. Also includes decimal equivalents.

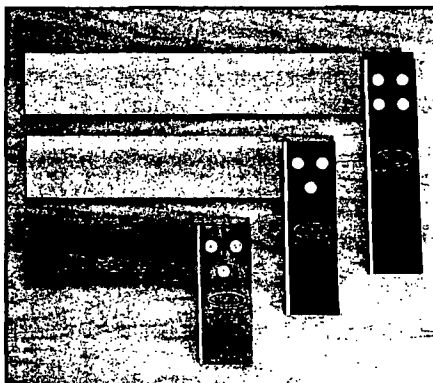


MODEL G3468 ONLY \$4<sup>95</sup>

### MARPLES TRY SQUARES

Marples

These Marples Try Squares feature hardwood stock faced with brass soles for protection against damage. Hardened steel blade is secured by three steel rivets and brass washers to assure maximum accuracy. Heirloom quality! Made in England.



MODEL G5496 6" ONLY \$24<sup>95</sup>  
MODEL G5497 9" ONLY \$29<sup>95</sup>  
MODEL G5498 12" ONLY \$34<sup>95</sup>

## STAINLESS STEEL DIVIDERS

Stainless steel rivet joint dividers are unsurpassed for layout work and measurement transfer.

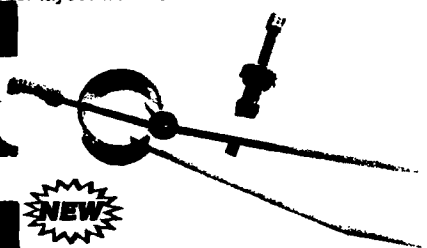
**NEW**

**THESE ARE  
HEAVY-DUTY  
DIVIDERS!**

MODEL G9259	4"	ONLY	\$2 <sup>75</sup>
MODEL G9260	6"	ONLY	\$3 <sup>50</sup>
MODEL G9261	8"	ONLY	\$4 <sup>50</sup>
MODEL G9262	10"	ONLY	\$5 <sup>95</sup>
MODEL G9263	12"	ONLY	\$8 <sup>95</sup>

## STAINLESS STEEL SPRING DIVIDERS

Precision Stainless Steel Spring Dividers with quick adjustment nut are indispensable for transferring distances or stepping off distances for layout work. Great time savers!



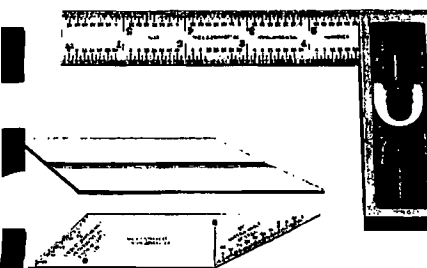
**NEW**

MODEL G9264	3"	ONLY	\$2 <sup>95</sup>
MODEL G9265	4"	ONLY	\$3 <sup>95</sup>
MODEL G9266	6"	ONLY	\$4 <sup>95</sup>
MODEL G9267	8"	ONLY	\$5 <sup>95</sup>
MODEL G9268	10"	ONLY	\$6 <sup>95</sup>
MODEL G9269	12"	ONLY	\$8 <sup>95</sup>

**Starrett**

## 6" DOUBLE SQUARE

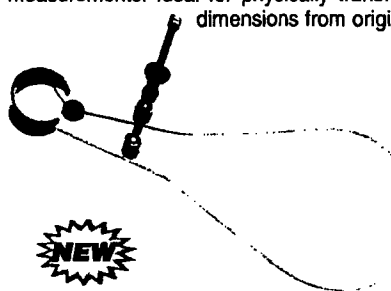
Popular with machinists and patternmakers, the sliding blades are adjustable for a variety of uses. Features graduated blade, level blade and drill grinding blade.



MODEL G6466	ONLY	\$94 <sup>95</sup>
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## STAINLESS STEEL OUTSIDE SPRING CALIPERS

Spring Calipers with quick adjustment nut provide fast determination of external measurements. Ideal for physically transferring dimensions from originals.

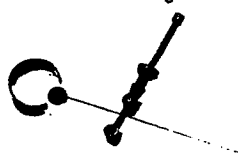


**NEW**

MODEL G9274	6"	ONLY	\$3 <sup>95</sup>
MODEL G9275	8"	ONLY	\$6 <sup>95</sup>
MODEL G9276	10"	ONLY	\$7 <sup>95</sup>
MODEL G9277	12"	ONLY	\$8 <sup>95</sup>
MODEL G9278	16"	ONLY	\$12 <sup>95</sup>

## STAINLESS STEEL INSIDE SPRING CALIPERS

Spring Calipers with a quick adjustment nut provide fast determination of internal measurements. Ideal for physically transferring dimensions from originals.

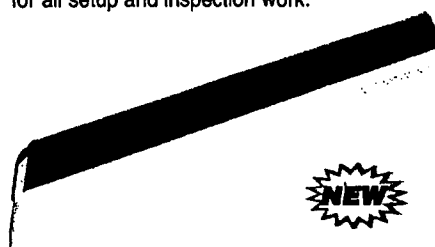


**NEW**

MODEL G9270	6"	ONLY	\$3 <sup>95</sup>
MODEL G9271	8"	ONLY	\$4 <sup>95</sup>
MODEL G9272	10"	ONLY	\$5 <sup>95</sup>
MODEL G9273	12"	ONLY	\$6 <sup>95</sup>

## STRAIGHT EDGES

Grade 00 heavy-duty stainless steel straight edges are manufactured to DIN874 standards for all setup and inspection work.



**NEW**

MODEL G9643	8"	ONLY	\$14 <sup>95</sup>
MODEL G9644	12"	ONLY	\$29 <sup>95</sup>

## 90° KNIFE EDGE SQUARES

Grade 0 heavy-duty stainless steel Knife Edge Squares are manufactured to DIN875 standards for all setup and inspection work. Each features inside and outside knife edges and inside notch for accuracy.

71007-1-100100-0-1000

**MEASURING  
TOOLS**

**NEW**

MODEL G9631	2" x 3"	ONLY	\$9 <sup>95</sup>
MODEL G9632	2½" x 4"	ONLY	\$12 <sup>95</sup>
MODEL G9633	3¼" x 5"	ONLY	\$18 <sup>95</sup>
MODEL G9634	4" x 6½"	ONLY	\$22 <sup>95</sup>
MODEL G9635	5" x 8"	ONLY	\$24 <sup>95</sup>
MODEL G9636	8" x 12"	ONLY	\$49 <sup>95</sup>

## 90° WIDE BASE SQUARES

Grade 0 heavy-duty stainless steel 90° Squares feature wide bases for precision and stability. Perfect for all setup and inspection work.

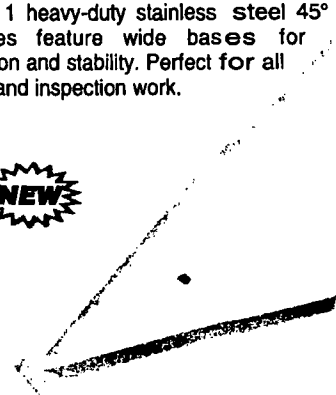
**NEW**

MODEL G9639	2¾" x 4"	ONLY	\$19 <sup>95</sup>
MODEL G9640	3" x 5"	ONLY	\$24 <sup>95</sup>
MODEL G9641	4" x 6"	ONLY	\$32 <sup>95</sup>
MODEL G9642	5" x 8"	ONLY	\$39 <sup>95</sup>

## 45° SQUARES

Grade 1 heavy-duty stainless steel 45° Squares feature wide bases for precision and stability. Perfect for all setup and inspection work.

**NEW**



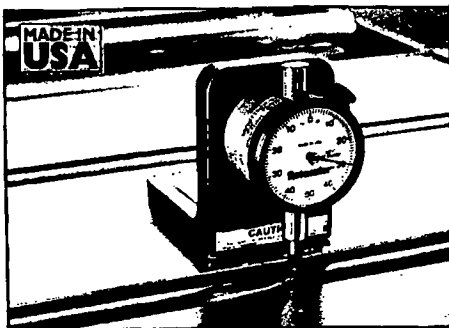
MODEL G9637	4" x 6"	ONLY	\$19 <sup>95</sup>
MODEL G9638	6¼" x 10"	ONLY	\$29 <sup>95</sup>

## MEASURING TOOLS

### ROTACATOR FOR PLANERS

This Rotacator has a magnetic base and is used to adjust settings on any planer. Infeed and outfeed rollers, pressure bars, feed-bed rollers, chip breaker, etc., can be adjusted very quickly and accurately. Fine tuning your planer will eliminate nasty surprises such as non-parallel and chattered surfaces. Ideal for other machine set ups, too.

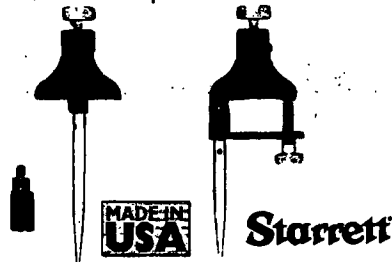
INDICATOR ROTATES 360°.



MODEL G1738 ~~\$127<sup>95</sup>~~ ONLY \$99<sup>95</sup>

### TRAMMEL HEADS

Die cast heads feature hardened, forged steel divider points, screw-in pencil socket and micro-adjustment screw. Accepts shop-made beam up to 3/8" thick x 3/4" wide.



MODEL G6458 ONLY \$52<sup>95</sup>

### 6" STEEL RULE

This 3/4" wide by 3/4" thick spring steel satin chrome rule has graduations in 8ths, 16ths and quick reading 32nds and 64ths. Also features a hardened reversible hook for easy edge alignment.

Starrett



MODEL G6467 ONLY \$19<sup>95</sup>

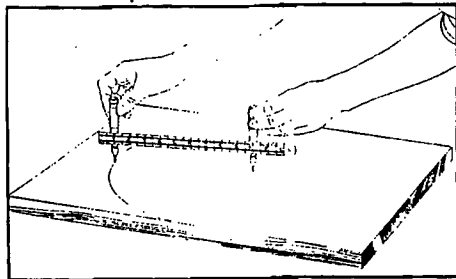
### CENTERING SQUARES

These precision Centering Squares measure 45° for locating turning centers on square or round stock as well as measure 90° for other squaring functions. Graduations are in millimeters.

MODEL G9781	4"	ONLY	\$18 <sup>95</sup>
MODEL G9782	6"	ONLY	\$19 <sup>95</sup>
MODEL G9783	8"	ONLY	\$24 <sup>95</sup>

### STEELEX PLUS® TRAMMEL/CIRCLE MARKER SET

For laying out large circles, this Trammel/ Circle Marker Set offers unsurpassed control and accuracy. Each trammel point



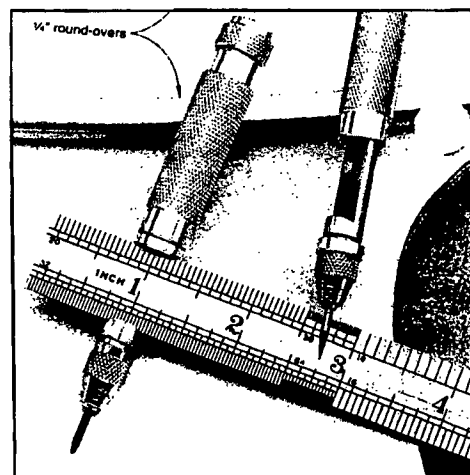
with steel point or replaceable lead is fully adjustable. Includes a 12" stainless steel ruler and extra lead.

MODEL H1090

ONLY \$15<sup>95</sup>

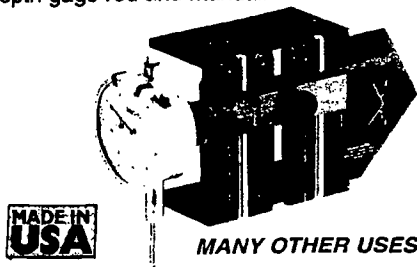
**NEW**

**DRAW CIRCLES UP TO 24" IN DIAMETER**



### MASTERGAGE®

Ten tools in one, the MasterGage® is a height gage, calibration gage, set-up tool, inch/mm conversion gage, layout tool, dimensional transfer tool, depth gage, miter gage, square and bevel gage. Includes MasterGage®, dial indicator, depth gage rod and manual.



MADE IN USA

MANY OTHER USES

MODEL G7583 ONLY \$129<sup>95</sup>

### SELF-ADHESIVE MEASURING TAPES

Self-Adhesive Steel Tape Measures are available in right-to-left reading and left-to-right reading styles. Both Tape Measures are 12' long and can be cut to length to suit your needs.

Starrett

MADE IN USA



MODEL H0750	Right-to-Left	\$9 <sup>95</sup>
MODEL H0751	Left-to-Right	\$9 <sup>95</sup>

### MARK AND CODE PENS

Write on almost anything. Permanent pens have a unique Valve-Performance tip that prevents drying. Leaves a bold mark on metal, wood, rubber, plastic and glass. Resists oil and petroleum solutions.



**NEW**

MODEL H1463	White	ONLY	\$1 <sup>95</sup>
MODEL H1464	Yellow	ONLY	\$1 <sup>95</sup>
MODEL H1465	Black	ONLY	15
MODEL H1489	Blue	ONLY	\$1 <sup>95</sup>
MODEL H1490	Orange	ONLY	\$1 <sup>95</sup>
MODEL H1491	Red	ONLY	\$1 <sup>95</sup>
MODEL H1492	Green	ONLY	\$1 <sup>95</sup>

## ELECTRONIC CALIPERS

American made electronic digital calipers can be used conventionally or they can output the measurement information for collection and analysis (except H1020). All feature hardened stainless steel bodies, fine adjustment, zero in any position and automatic OFF after 15 minutes of non use. H1020 Basic Series has a range of 0-6" and has an inch/millimeter conversion function, H1021 with output has a range of 0-6", H1024 with output has a range of 0-9" and H1025 with output has a range of 0-12". H1020 and H1021 include plastic fitted cases. H1024 and H1025 include wooden fitted cases.

**Starrett**

H1021  
FULL  
FUNCTION

H1020  
BASIC

**MADE IN  
USA**

0-6"/150mm	
<b>MODEL H1020</b>	<b>ONLY \$159<sup>95</sup></b>
0-6"/150mm	
<b>MODEL H1021</b>	<b>ONLY \$204<sup>95</sup></b>
0-9"/225mm	
<b>MODEL H1024</b>	<b>ONLY \$286<sup>95</sup></b>
0-12"/300mm	
<b>MODEL H1025</b>	<b>ONLY \$538<sup>95</sup></b>

## TOOL AND INSTRUMENT OIL

Extra-fine lubricant is used to protect precision measuring tools and instruments. Special high-refining ensures thorough lubrication of close fitting parts at all temperatures and provides a strong lasting film to protect against rust. 4 oz.

**NEW**

**MADE IN  
USA**

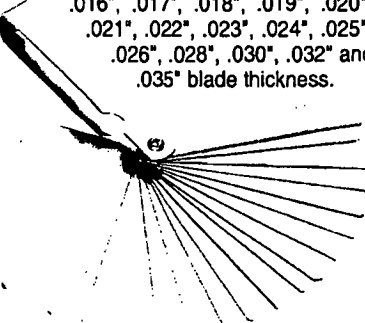


**MODEL H1002 ONLY \$4<sup>95</sup>**

## FEELER GAUGE SETS

These 3 1/2" long Feeler Gauge Sets provide a quick and accurate method of determining gap widths. G9615 includes: .002", .003", .004", .005", .006", .008", .011", .012", .013", .014", .016", .018", .020", .022" and .025" blade thickness. G9616 includes: .0015", .002", .0025", .003", .004", .005", .006", .007", .008", .009", .010", .010", .011", .012", .013", .014", .015", .016", .017", .018", .019", .020", .021", .022", .023", .024", .025", .026", .028", .030", .032" and .035" blade thickness.

<b>MODEL G9615</b>	15-pc.	<b>ONLY \$2<sup>95</sup></b>
<b>MODEL G9616</b>	32-pc.	<b>ONLY \$4<sup>95</sup></b>



## LAYOUT DYE

Available in brush-on or aerosol spray, this deep blue dye dries quickly and provides an opaque background that makes scribed lines stand out sharp and clear. Will not rub off on hands or clothes. Cleans off with denatured alcohol. H1017 includes a brush in the cap.



**NEW**

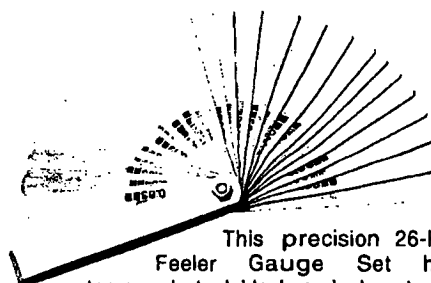
H1017



H1003

11 1/2 oz. aerosol can	
<b>MODEL H1003</b>	<b>ONLY \$10<sup>95</sup></b>
4 oz. plastic bottle	
<b>MODEL H1017</b>	<b>ONLY \$4<sup>50</sup></b>
16 oz. can	
<b>MODEL H1018</b>	<b>ONLY \$8<sup>75</sup></b>

## 26-PC. FEELER GAUGE SET



This precision 26-Pc. Feeler Gauge Set has tempered steel blades, lock nut and protective handle. Each blade is clearly marked in thousandths and millimeters for easy identification.

<b>MODEL G5724</b>	<b>ONLY \$3<sup>45</sup></b>
--------------------	------------------------------

## HARDNESS TESTER

Designed for measuring hardness of metals and alloys of all kinds, hard or soft metals and alloys of all shapes - flat, round or irregular. Simple in design and easy to operate, yet sensitive and accurate. Ideally suited for schools, laboratories, tool rooms and inspection departments. Conforms to IS 3804-1966 and BS: 891-1962 part I and part II for Rockwell tests.

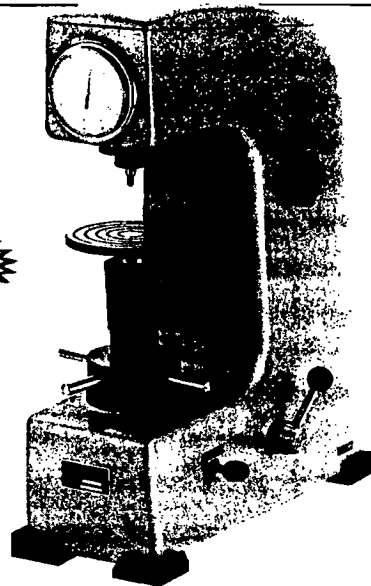
### SPECIFICATIONS:

- Maximum load (KGF): 150
- Load range (KGF): 60, 100, 150
- Initial range load (KGF): 10
- Maximum test height: 4 1/4"
- Depth of throat: 5 1/4"
- Maximum depth of spindle below base: 2"
- Size of base: 7" x 18"
- Machine height: 24 1/2"
- Approximate net weight: 190 lbs.

### STANDARD ACCESSORIES:

- 5 3/4" testing table
- 2 1/8" testing table
- 120° diamond penetrator
- Rockwell A test block (1-pc.)
- Rockwell B test block (1-pc.)
- Rockwell C test blocks (3-pc.)
- Screwdrivers
- Complete instruction manual
- Dust proof plastic cover

**NEW**



**MODEL G9645 ONLY \$675<sup>00</sup>**

**\$48**  
ANYWHERE IN  
LOWER 48 STATES

CALL 24 HOURS A DAY FROM ANYWHERE IN THE U.S.A. 1-800-523-4777

## MEASURING TOOLS

### MAGNETIC BASE WITH INDICATOR

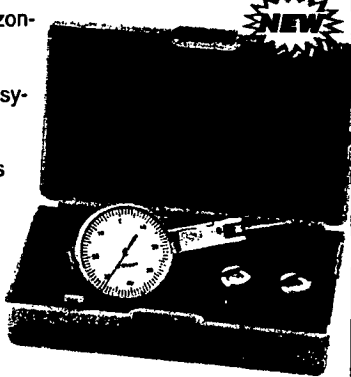
Compact, yet rugged design make this Magnetic Base with Dial Indicator ideal for all machine set up and testing. Range 1". Resolution .001". Features include powerful magnet, six indicator mounting locations, three 1/4" - 20 tapped holes, one 10-32 tapped hole, one 3/8" mounting hole and one V-shaped mounting hole. Base measures 4" x 1" x 1" overall.



**MODEL G9623 ONLY \$16<sup>95</sup>**

### TEST INDICATORS

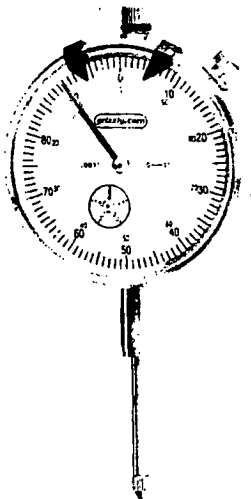
These horizontal Test Indicators have an easy-to-read dial with 0.001" graduations and a pivoting stylus that moves at right angles to the dial face.



.03" Range/.001" Resolution  
**MODEL G9610 ONLY \$26<sup>95</sup>**  
.008" Range/.0005" Resolution  
**MODEL G9611 ONLY \$49<sup>95</sup>**  
.03" Range/.0001" Resolution  
**MODEL G9612 ONLY \$29<sup>95</sup>**

### DIAL INDICATORS

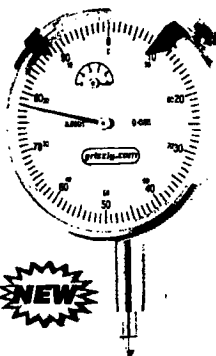
Precision dial indicators are designed for use with magnetic bases. Great for measuring run-out on lathes, blades etc. Graduations are in .001" (one thousandth of an inch).



**MODEL G3632 0-1/2" ONLY \$9<sup>95</sup>**  
**MODEL G1479 0-1" ONLY \$12<sup>95</sup>**

### DIAL INDICATOR .05" RANGE X .0001"

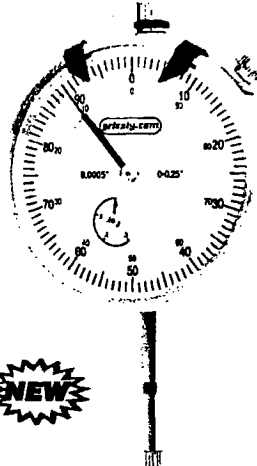
If your measuring requirements call for supreme accuracy within a short range, this is the Dial Indicator for you. Graduations are .0001" (one ten thousandth of an inch) and range is .05" (five hundredths of an inch). Fits all dial indicator magnetic bases.



**MODEL G9806 ONLY \$24<sup>95</sup>**

### DIAL INDICATOR 1/4" RANGE X .0005"

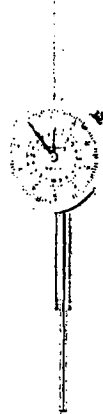
These precision dial indicators are great for general inspection purposes as well as checking runout on any lathe or mill. .100 per rev. .0005 graduations (1 half thousandth of an inch).



**MODEL G9807 ONLY \$9<sup>95</sup>**

### DIAL INDICATOR 2" RANGE X .001"

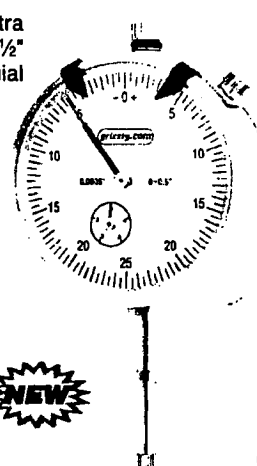
To round out our selection of Dial Indicators, we offer this indicator with a 0 to 2" range of travel, making it ideal for checking a wider variation of measurements. Even with such a wide range of travel, resolution is still .001", yielding a very accurate, general purpose Dial Indicator. Fits all dial indicator magnetic bases.



**MODEL G9809 ONLY \$19<sup>95</sup>**

### DIAL INDICATOR 1/2" RANGE X .0005"

Need a little extra travel? Try this 1/2" travel precision dial indicator.

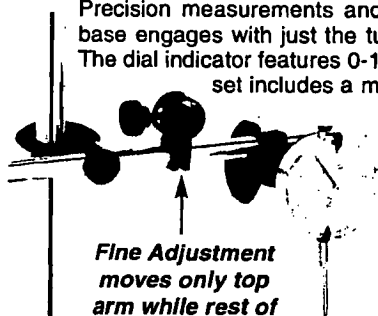


**MODEL G9848 ONLY \$12<sup>95</sup>**

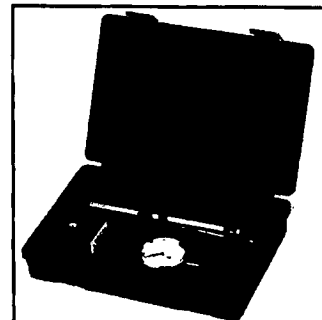
## PRESIDENT'S SPECIAL!

### MAGNETIC BASE/DIAL INDICATOR COMBO

Precision measurements and set-ups have never been so easy. Magnetic base engages with just the turn of a switch and allows pinpoint adjustment. The dial indicator features 0-1" travel and has a resolution of 0.001". This fine set includes a molded case for protection and convenience.



*Fine Adjustment moves only top arm while rest of base remains in same position.*

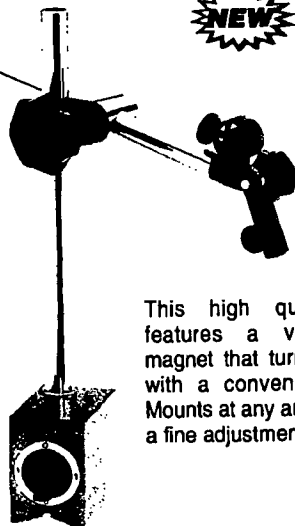


**MODEL G9849 ONLY \$19<sup>95</sup>**



## MAGNETIC BASE WITH FINE ADJUSTMENT

**NEW**

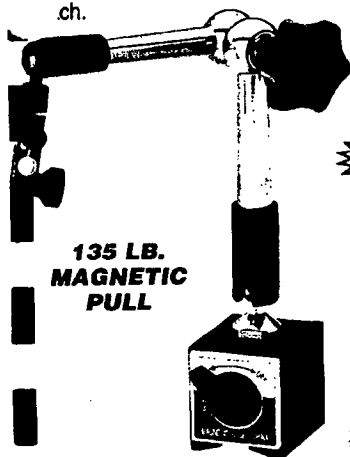


This high quality base features a very strong magnet that turns on or off with a convenient switch. Mounts at any angle and has a fine adjustment arm.

MODEL G9811 ONLY \$29<sup>95</sup>

## MAGNETIC BASE WITH QUICK LOCK

These extremely well made precision magnetic bases are an amazing value. Infinitely adjustable and just a turn of the knob securely locks the arm in position. Powerful magnet has on/off switch.



**NEW**

135 LB.  
MAGNETIC  
PULL



175 LB.  
MAGNETIC  
PULL



MODEL G9812 135# ONLY \$37<sup>95</sup>  
MODEL G9813 175# ONLY \$39<sup>95</sup>

## UNIVERSAL MAGNETIC INDICATOR HOLDER

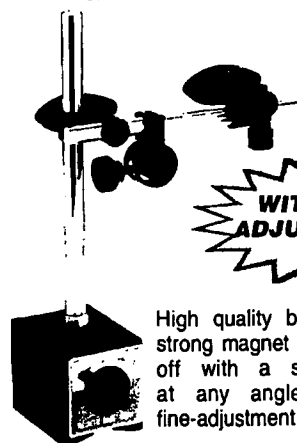
**NEW**



With its single locking knob, this Universal Magnetic Indicator Holder is convenient to set up. Features magnetic base and fine adjustment control.

MODEL G9624 ONLY \$9<sup>95</sup>

## MAGNETIC BASE



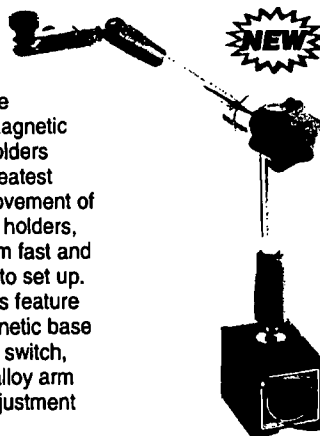
**WITH FINE  
ADJUSTMENT!**

High quality base features a strong magnet that turns on or off with a switch. Mounts at any angle and has a fine-adjustment arm.

MODEL G1480 ONLY \$16<sup>95</sup>

## UNIVERSAL MAGNETIC BASES

With single locking knobs, these Universal Magnetic Indicator Holders have the greatest range of movement of all indicator holders, making them fast and convenient to set up. Both models feature strong magnetic base with On/Off switch, aluminum alloy arm and fine adjustment control.

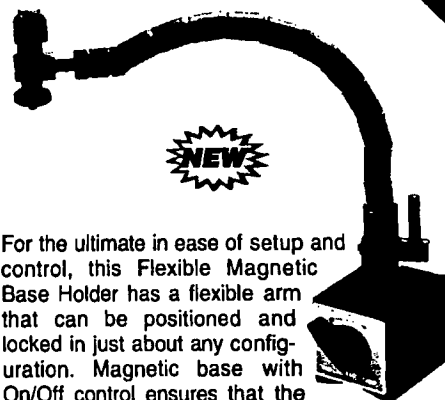


**NEW**

130 lb. Force  
MODEL G9626 ONLY \$24<sup>95</sup>  
175 lb. Force  
MODEL G9627 ONLY \$27<sup>95</sup>

## FLEXIBLE MAGNETIC BASE INDICATOR HOLDER

**NEW**



For the ultimate in ease of setup and control, this Flexible Magnetic Base Holder has a flexible arm that can be positioned and locked in just about any configuration. Magnetic base with On/Off control ensures that the holder remains stationary. Base size is 2 3/4" x 2" x 2 1/4". 130 lb. magnetic pull.

MODEL G9625 ONLY \$23<sup>95</sup>

## UNIVERSAL INDICATOR HOLDER

Mount your dial indicator right on your milling machine for guaranteed accurate readings. C-frame holder mounts with a single screw directly on the machine's quill and does not interfere with the cutting tool. Clamping diameter is 1 1/4". The length from clamping bracket to indicator is 4 1/2". Suitable for all popular indicators with 5/32" shank or dovetail.

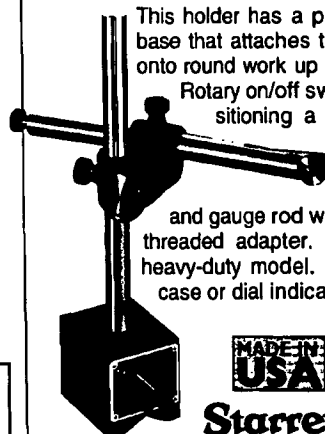


**NEW**

MODEL G9629 ONLY \$8<sup>95</sup>

## MAGNETIC BASE WITHOUT CASE

This holder has a powerful magnetic base that attaches to flat surfaces or onto round work up to 5" in diameter. Rotary on/off switch makes repositioning a breeze. Includes base, upright post assembly with post, snug and gauge rod with fine adjust and threaded adapter. This is Starrett's heavy-duty model. Does not include case or dial indicator.



MADE IN  
USA

Starrett

**NEW**

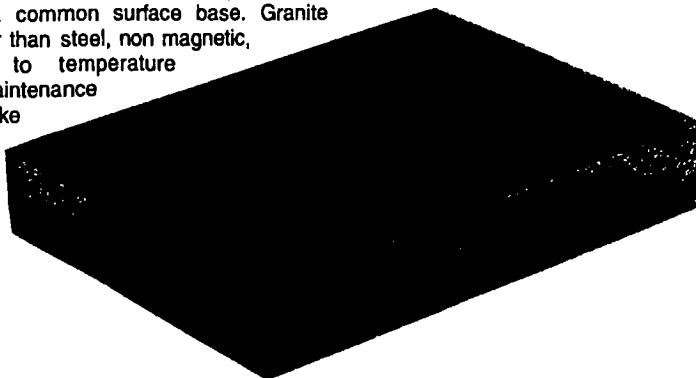
MODEL H1028 ONLY \$309<sup>95</sup>

MEASURING  
TOOLS

**MEASURING  
TOOLS**

## GRANITE SURFACE PLATES

These tool room grade "B" Granite Plates have a bilateral accuracy of plus or minus .0001" total instrument runout for precision measurements from a common surface base. Granite Plates are harder than steel, non magnetic, least responsive to temperature changes, practically maintenance free and won't corrode like steel. Available with clamping ledges or without.



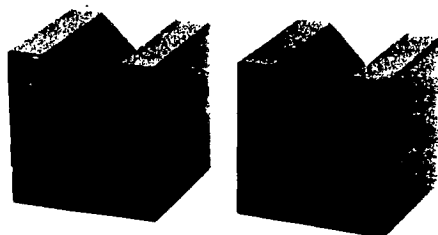
**NEW**

MODEL G9647	6" x 8"	No Ledge	2" thick	ONLY	\$89 <sup>95</sup>
MODEL G9648	9" x 12"	No Ledge	3" thick	ONLY	\$89 <sup>95</sup>
MODEL G9649	9" x 12"	No Ledge	2" thick	ONLY	\$89 <sup>95</sup>
MODEL G9650	9" x 12"	2 Ledge	3" thick	ONLY	\$89 <sup>95</sup>
MODEL G9651	12" x 18"	No Ledge	3" thick	ONLY	\$89 <sup>95</sup>
SHIP ANYWHERE IN 48 STATES FOR \$20 <sup>00</sup>					
MODEL G9652	12" x 18"	2 Ledge	3" thick	ONLY	\$89 <sup>95</sup>
SHIP ANYWHERE IN 48 STATES FOR \$20 <sup>00</sup>					
MODEL G9653	18" x 18"	No Ledge	3" thick	ONLY	\$89 <sup>95</sup>
SHIP ANYWHERE IN 48 STATES FOR \$48 <sup>00</sup>					
MODEL G9654	18" x 24"	No Ledge	3" thick	ONLY	\$89 <sup>95</sup>
SHIP ANYWHERE IN 48 STATES FOR \$48 <sup>00</sup>					
MODEL G9655	18" x 24"	2 Ledge	3" thick	ONLY	\$89 <sup>95</sup>
SHIP ANYWHERE IN 48 STATES FOR \$48 <sup>00</sup>					
MODEL G9656	24" x 24"	No Ledge	3" thick	ONLY	\$89 <sup>95</sup>
SHIP ANYWHERE IN 48 STATES FOR \$48 <sup>00</sup>					
MODEL G9657	24" x 36"	2 Ledge	4" thick	ONLY	\$89 <sup>95</sup>
SHIP ANYWHERE IN 48 STATES FOR \$68 <sup>00</sup>					

## GRANITE V-BLOCK PAIR

Used to inspect cylindrical pieces within a tolerance of .0001"/6". 90° V is parallel to the bottom two sides and is square to the two ends. Sold in matched pairs. Each V-Block measures 4" x 4" x 4".

**NEW**

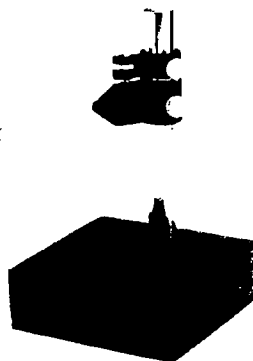


MODEL G9646 ONLY \$199<sup>95</sup>

## GRANITE COMPARATOR STAND & FRAME

This extremely stable Granite Comparator Stand and Frame features a flatness of 0.0005" and micro-screw fingertip control. For use on granite plates or as a stand alone small parts comparator for accurate inspection work, the base measures 6" x 6" x 2". Overall height is 10".

**NEW**

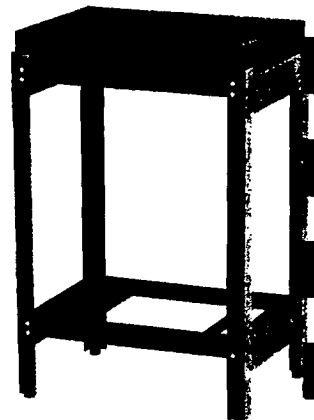


MODEL G9628 ONLY \$199<sup>95</sup>

## SURFACE PLATE STANDS

These stable steel stands are made to support all grades of 18" x 24" or 24" x 36" granite surface plates and feature an overall height of 36" plus four leveling screws. G9659 and G9660 are no ledge models and G9659 and G9661 are two ledge models. Surface plate not included.

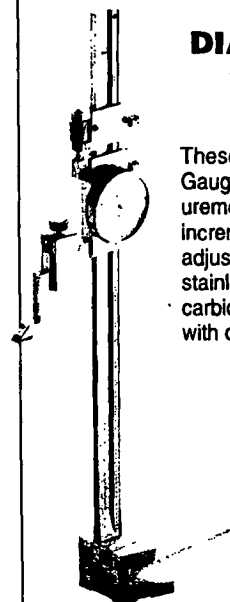
**NEW**



18" x 24", No Ledge	ONLY \$49 <sup>95</sup>
MODEL G9658	SHIP ANYWHERE IN 48 STATES FOR \$20 <sup>00</sup>
18" x 24", 2 Ledge	ONLY \$49 <sup>95</sup>
MODEL G9659	SHIP ANYWHERE IN 48 STATES FOR \$20 <sup>00</sup>
24" x 36", No Ledge	ONLY \$59 <sup>95</sup>
MODEL G9660	SHIP ANYWHERE IN 48 STATES FOR \$48 <sup>00</sup>
24" x 36", 2 Ledge	ONLY \$59 <sup>95</sup>
MODEL G9661	SHIP ANYWHERE IN 48 STATES FOR \$48 <sup>00</sup>

## DIAL HEIGHT GAUGES

These precision Dial Height Gauges provide accurate measurements with readings in .001" increments. Each features fine adjustment and lock, shockproof stainless steel construction and carbide tipped scribe. Complete with case.



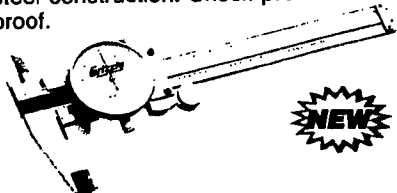
**NEW**

MODEL G9618	6"	ONLY \$39 <sup>95</sup>
MODEL G9619	8"	ONLY \$49 <sup>95</sup>
MODEL G9620	12"	ONLY \$59 <sup>95</sup>

## PRESIDENT'S SPECIAL

### GRIZZLY® 4" DIAL CALIPER

Let's face it, most of your measuring requirements are for small items that are less than 4", right? That's why this 4" Dial Caliper is such a great deal; compact size and special price. This Dial Caliper with .001" graduations and .100" per revolution features hardened knife edges, inside and outside calipers plus step gauge and knurled thumb roll. Stainless steel construction. Shock proof and dust proof.



MODEL G9808 \$17.95 **\$11.95**

### LONG JAW DIGITAL CALIPERS

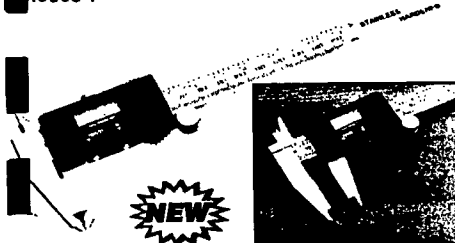
Easy-to-read digital calipers with LED display have jaws for measuring diameters and lengths. Made of stainless steel construction, these feature graduations and fine adjustment control. Resolution is 0.01mm / 0.0005".



12", 3 1/2" jaws	
MODEL G9250	ONLY \$149.95
18", 6" jaws	
MODEL G9251	ONLY \$199.95
20", 6" jaws	
MODEL G9252	ONLY \$299.95

### DIGITAL CALIPERS WITH AUTOMATIC OFF

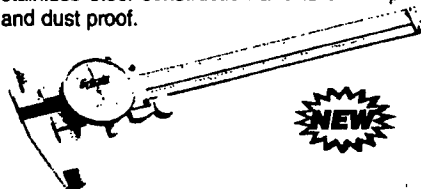
Easy-to-read stainless steel digital caliper with LED display features a time-out automatic shut off for long battery life. Resolution is 0.01mm / 0.0005".



MODEL G9253	6"	ONLY \$39.95
MODEL G9254	8"	ONLY \$49.95
MODEL G9255	12"	ONLY \$89.95

### GRIZZLY® DIAL CALIPERS

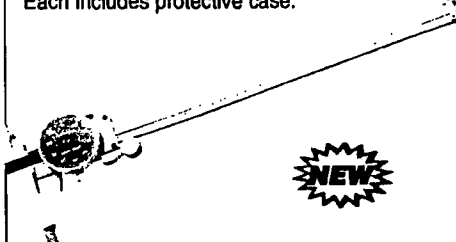
Traditional dial calipers feature a 6", 8", or 12" measuring range with .001" graduations and .100" per revolution. Hardened knife edge, inside and outside calipers plus step gauge and knurled thumb roll make this dial caliper a mainstay in any shop. This Dial Caliper features stainless steel construction and is shock proof and dust proof.



MODEL G9256	6"	ONLY \$15.95
MODEL G9257	8"	ONLY \$29.95
MODEL G9258	12"	ONLY \$39.95

### STAINLESS STEEL DIAL CALIPERS WITH BLACK FACES

Easy to read black face dial calipers feature .001" graduations, hardened and ground stainless steel main beams with hardened, ground and lapped measuring faces. Knurled thumb roll and 360° adjustable bezel make inside, outside and depth and step measurements quick and precise. Each includes protective case.



MODEL G9279	4"	ONLY \$15.95
MODEL G9280	6"	ONLY \$17.95
MODEL G9281	8"	ONLY \$27.95
MODEL G9282	12"	ONLY \$39.95
6"/150mm Combination		
MODEL G9283		ONLY \$19.95
8"/200mm Combination		
MODEL G9284		ONLY \$29.95

### Starrett 12" DIAL CALIPER

Direct reading caliper with 3" long jaws allows more measuring area than conventional calipers. Strong inside and outside nibs measure from zero for outside measurements and from .300" for inside measurements. 0 - 12" range. Resolution is 0.001".



MODEL H1027 ONLY \$256.95

### VERNIER DEPTH CALIPERS

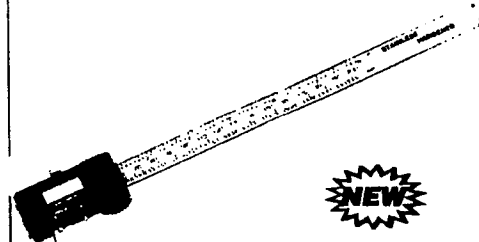
These precision made Vernier Depth Gauges feature carbon steel construction and 1/32" graduations. Model G9287 has a 6" range and 3" base. Model G9288 has an 8" range and 4" base.



MODEL G9287	6"	ONLY \$12.95
MODEL G9288	8"	ONLY \$14.95

### DIGITAL DEPTH GAUGES

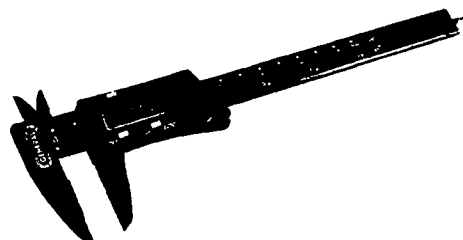
Quick reading electronic Digital Depth Gauges feature a 6"/150mm range or a 8"/200mm range, automatic shut off, zero setting function and conversion to inch and metric readings. G9285 has a 3 1/8" base and G9286 has a 4" base. Resolution is 0.01mm / 0.0005".



MODEL G9285	6"	ONLY \$49.95
MODEL G9286	8"	ONLY \$69.95

### GENERAL®

### 6" DIGITAL CALIPER



These fiberglass-reinforced polyimide calipers offer an easy-to-read digital readout that's accurate to ±.005". Measure inside, outside, depth and step with outstanding Swiss precision. Adjustable zero.

MODEL G4967 ONLY \$59.95

# MEASURING TOOLS

## ELECTRONIC BLADE MICROMETERS

Designed for accurate measurements of circular form tools, diameter and depth of narrow grooves, slots and keyways.

These micrometers feature non rotating spindles, automatic OFF after 30 minutes of non use, instant inch / millimeter conversion, full function electronic actions and ability to output the measurement information for collection and analysis. .00005" resolution.



MODEL H1032	0-1" ONLY	\$599 <sup>95</sup>
MODEL H1033	1-2" ONLY	\$634 <sup>95</sup>
MODEL H1034	2-3" ONLY	\$669 <sup>95</sup>
MODEL H1035	3-4" ONLY	\$699 <sup>95</sup>
MODEL H1036	4-5" ONLY	\$719 <sup>95</sup>

## 1" ELECTRONIC SHEET METAL MICROMETER

Long reach micrometer takes measurements away from the edge of sheet metal for accurate readings. Range is 0-1" and resolution is .00005".

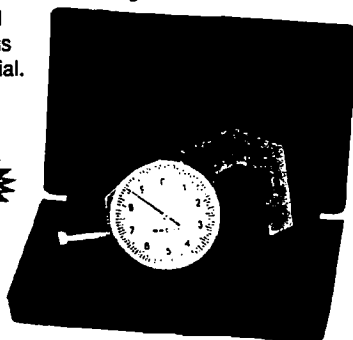
Features full function electronic actions and can output the measurement information for collection and analysis.



MODEL H1010	ONLY	\$349 <sup>95</sup>
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## DIAL THICKNESS GAUGE

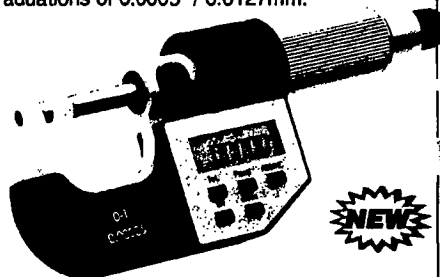
Measure thicknesses up to 0.5" with 0.005" graduations. Features rigid construction, rotating bezel and continuous reading dial.



MODEL G9617	ONLY	\$19 <sup>95</sup>
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## OUTSIDE MICROMETERS

Dual reading Electronic Digital Outside Micrometers accurately measure outside dimensions in inches and millimeters with graduations of 0.0005" / 0.0127mm.



MODEL G9598	0-1" ONLY	\$69 <sup>95</sup>
MODEL G9599	1-2" ONLY	\$79 <sup>95</sup>
MODEL G9600	2-3" ONLY	\$89 <sup>95</sup>
MODEL G9601	3-4" ONLY	\$99 <sup>95</sup>

## 1" ELECTRONIC TUBE MICROMETER

For measuring the wall thickness of tubing and other parts with cylindrical walls. Features automatic OFF after 30 minutes of non use, instant inch / millimeter conversion, full function electronic actions and ability to output the measurement information for collection and analysis. .00005" resolution.

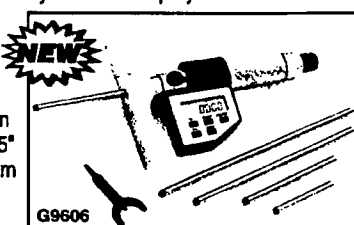


MODEL H1009	ONLY	\$306 <sup>50</sup>
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## DEPTH MICROMETERS

Get ultimate accuracy while measuring depth in holes, steps and grooves. Sold in 8 ranges, these depth micrometers feature thick, wide bases for stability, easy-to-read display and unbeatable

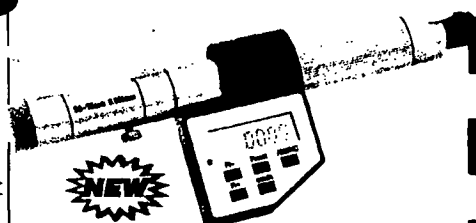
accuracy over any depth gauge! Resolution is 0.00005" / 0.001 mm



MODEL G9602	0-1" ONLY	\$89 <sup>95</sup>
MODEL G9603	0-2" ONLY	\$99 <sup>95</sup>
MODEL G9604	0-3" ONLY	\$109 <sup>95</sup>
MODEL G9605	0-4" ONLY	\$119 <sup>95</sup>
MODEL G9606	0-5" ONLY	\$129 <sup>95</sup>
MODEL G9607	0-6" ONLY	\$139 <sup>95</sup>
MODEL G9608	0-7" ONLY	\$149 <sup>95</sup>
MODEL G9609	0-8" ONLY	\$159 <sup>95</sup>

## INSIDE MICROMETERS

Dual reading Electronic Digital Inside Micrometers accurately measure inside dimensions between 0.2 and 1.2" / 5 and 30mm with graduations of 0.00005" / 0.001mm.



MODEL G9592	0.2-1.2" ONLY	\$89 <sup>95</sup>
MODEL G9593	1-2" ONLY	\$94 <sup>95</sup>
MODEL G9594	2-3" ONLY	\$99 <sup>95</sup>
MODEL G9595	3-4" ONLY	\$109 <sup>95</sup>
MODEL G9596	4-5" ONLY	\$119 <sup>95</sup>
MODEL G9597	5-6" ONLY	\$129 <sup>95</sup>

## DEPTH MICROMETERS IN CASES

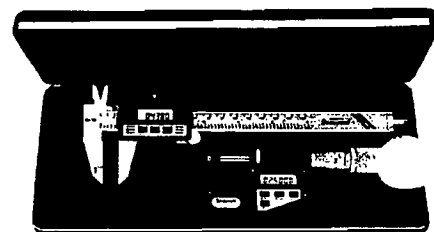
These mechanical digital micrometer depth gauges feature easy to read numbers, 3" hardened, ground and lapped bases combination ratchet and thimble for uniform pressure and .001" resolution. Each includes protective case. H1029 has a 0-3" range and H1030 has a 0-6" range.



MODEL H1029	0-3" ONLY	\$214 <sup>95</sup>
MODEL H1030	0-6" ONLY	\$249 <sup>95</sup>

## ELECTRONIC CALIPER AND MICROMETER SET

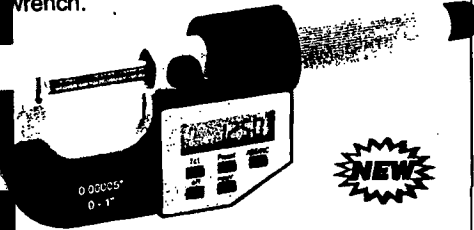
This basic set for electronic measuring includes 0-6" digital slide caliper and 0-1" digital outside micrometer. Furnished in an attractive protective case. Not for digital output.



MODEL H1031	ONLY	\$334 <sup>95</sup>
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## DIGITAL TUBING MICROMETER 0-1"

This is a remarkable value for an instrument with this precision. The Digital Readout is rated down to .00005"! Couple that with features like inch/millimeter switching, tolerance mode, relative measuring mode, a range of 0-1" and an off button for longer battery life, you'll agree that this unit is a great buy. Includes extra battery, case and wrench.



MODEL G9778 ONLY \$89<sup>95</sup>

## DIGITAL DEEP THROAT MICROMETER 0-1"



Packed with features and at an unbeatable price, our new Digital Deep Throat Micrometer has carbide tips, inch/millimeter switching, tolerance mode, relative measuring mode, 0-1" range and is calibrated down to .00005"! Throat is 6". Comes with a case, extra battery and wrench.

MODEL G9779 ONLY \$99<sup>95</sup>

## DIGITAL DEEP THROAT MICROMETER 1-2"

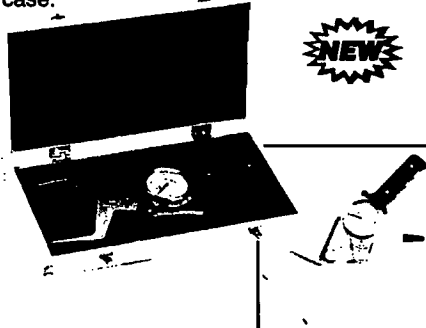


This is the same Deep Throat Micrometer as the one above except it has a 1" to 2" range. Comes supplied with a 1" standard, wrench, extra battery and case. Again, an incredible value!

MODEL G9780 ONLY \$109<sup>95</sup>

## OUTSIDE DIAL CALIPERS

These Outside Dial Caliper Gauges offer quick and easy measurements with dependable results. All feature large face dials, .0005" resolution, ball bearing tips, comfortable plastic handles and a release-to-measure trigger. Each gauge has a minimum of 2 1/2" throat. Comes with a fitted case.

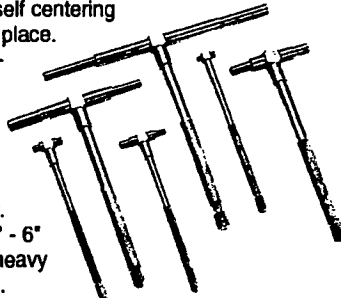


MODEL G9801 0 - .8 ONLY \$69<sup>95</sup>  
MODEL G9802 .8 - 1.6 ONLY \$69<sup>95</sup>  
MODEL G9803 1.6 - 2.4 ONLY \$69<sup>95</sup>  
MODEL G9804 2.4 - 3.2 ONLY \$69<sup>95</sup>  
MODEL G9805 3.2 - 4.0 ONLY \$69<sup>95</sup>

## TELESCOPIC GAUGE SET

Measure inside dimensions quickly and accurately. Hardened steel contact points are self centering and lock in place.

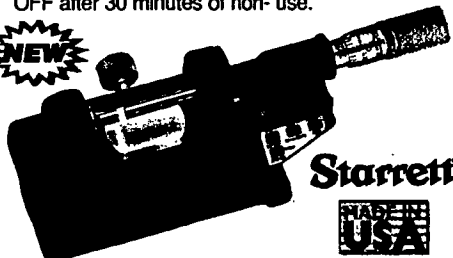
Final measurements are obtained with an outside micrometer. Features 1" - 6" gauges in heavy vinyl pouch.



MODEL G5656 ONLY \$16<sup>95</sup>

## ELECTRONIC BENCH MICROMETER

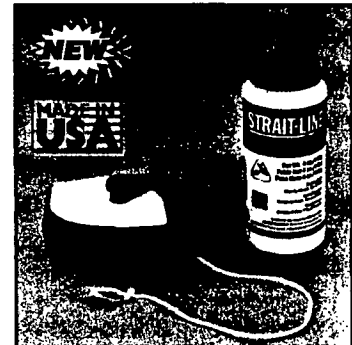
Especially suited for precision measurements where the work must be brought to the gauge. Work is staged between the anvil and spindle on an adjustable table for consistent measurements. The no-glare base is heavily proportioned cast iron and stands on three machined pads. Micrometer has a 0-1" range and can output the measurement information for collection and analysis. Automatic OFF after 30 minutes of non-use.



MODEL H1023 ONLY \$615<sup>95</sup>

## STRAIT-LINE® FAST RETRIEVE REEL SET

Premium chalk reel features a quick line retrieval gear system and a crank handle clutch release which allows line release without spinning of the crank handle. Comes with 4 oz. of marking chalk.



MODEL H2135 ONLY \$6<sup>95</sup>

## STRAIT-LINE® REEL SET

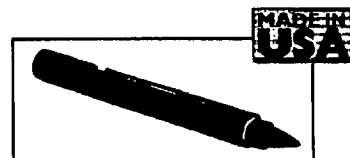
The mainstay in every tradesman's bag of tools. Features steel plated hook, high tensile strength, self chalking cord and durable aluminum body that doubles as a plumb bob. Includes 4 oz. of marking chalk.



MODEL H2136 ONLY \$4<sup>95</sup>

## STRAIT-LINE® MARKING CRAYONS

Set of six hexagonal, non-toxic, waterproof marking crayons for just about any surface including oily, slick, wet, cold and dry. Crayon Holder has an adjustable slide for exposing just the right amount of crayon tip.

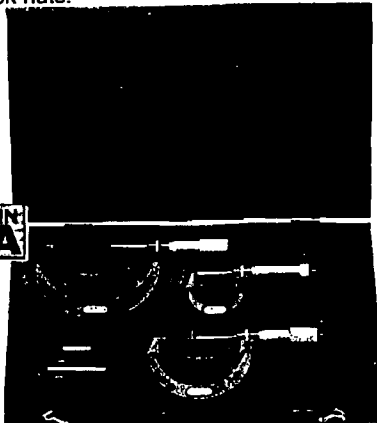


MODEL H2139 Black ONLY \$3<sup>95</sup>  
MODEL H2140 Yellow ONLY \$3<sup>95</sup>  
MODEL H2141 Holder ONLY \$7<sup>95</sup>

# MEASURING TOOLS

## 0-3" MICROMETER SET

This precision outside micrometer set features 1", 2" and 3" micrometers, two standards, adjusting wrench and French fitted hardwood case. All micrometers have ratchet stops and lock nuts.

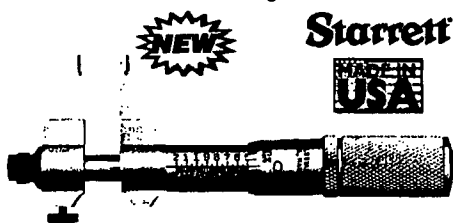


MADE IN USA

MODEL G6471 ONLY \$349<sup>95</sup>

## INSIDE MICROMETER CALIPERS

Caliper type jaws permit quick inside measurements that are accurate to  $\pm .0002"$ . Jaws are hardened and ground on a radius for accurate feel without binding. Range is 0.200" - 1.200 and 1" - 2" with .001" graduations.



1" - 2"  
MODEL H1001 ONLY \$209<sup>95</sup>  
0.200" - 1.200"  
MODEL H1006 ONLY \$199<sup>95</sup>

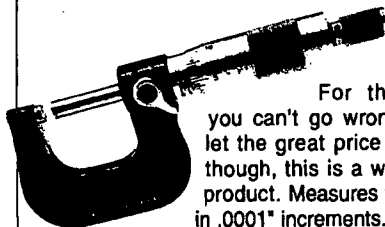
## 2" MICROMETER

Used to check out-of-roundness from centerless grinding work or other machining operations as well as measuring odd fluted tooling. Features rigid one-piece frame of drop forged steel, micro-lapped measuring faces, combination ratchet and speeder for uniform pressure and carbide facing on spindle and anvils for extra long wear. .093" - 2" range. .001" graduations.



MODEL H1008 ONLY \$429<sup>95</sup>

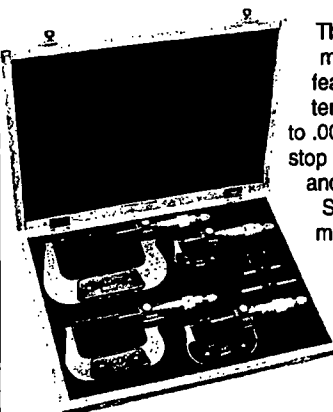
## 0-1" MICROMETER



For this price you can't go wrong! Don't let the great price fool you though, this is a well made product. Measures from 0-1" in .0001" increments. Includes wrench and protective box.

MODEL G5773 ~~was \$9.95~~  
NOW ONLY \$6<sup>95</sup>

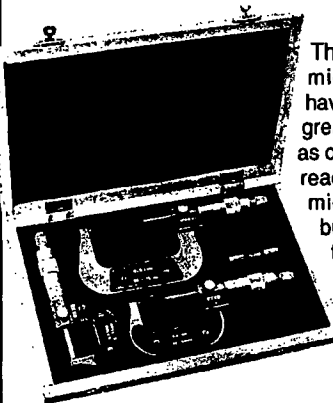
## DIGITAL MICROMETERS



These digital micrometers feature counters that read to .001", ratchet stop adjustment and lock nuts. Sets include micrometers, standards, adjusting wrench and wooden case.

MODEL	TYPE	PRICE
G5624	0-1"	\$29.95
G5625	1"-2"	\$33.95
G5626	2"-3"	\$34.95
G5627	3"-4"	\$39.95
G5628	4"-5"	\$49.95
G5629	5"-6"	\$79.95
G5630	Set 0-3"	\$89.95
G5631	Set 0-4"	\$129.95
G5632	Set 0-6"	\$199.95

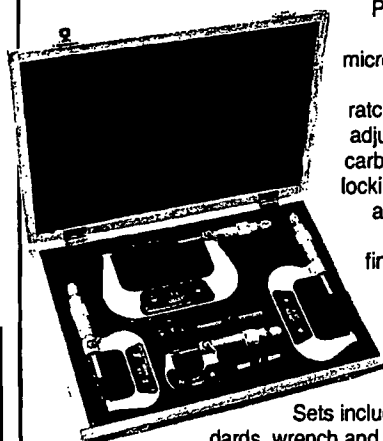
## DIGITAL MICROMETERS - METRIC



These metric micrometers have the same great features as our standard reading digital micrometers, but the digital counter in these read to .01mm.

MODEL	TYPE	PRICE
G5633	0-75mm	\$99.95
G5634	0-100mm	\$139.95

## MICROMETER SETS



Precision machined micrometers feature ratchet stop adjustment, carbide tips, locking lever and satin chrome finish with heat insulated grip plates.

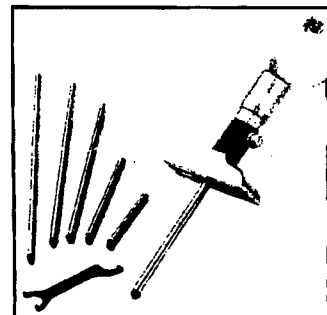
Sets include standards, wrench and wooden case. Reads in .001" increments.

MODEL	TYPE	PRICE
G5635	0-3"	\$42.95
G5636	0-4"	\$62.95
G5637	0-6"	\$84.95

## DEPTH MICROMETERS

This basic measuring tool features rigid interchangeable rods, wide base and ratchet adjustment for accurate and repeatable depth measurements.

Both sets come in foam lined wooden cases. G5623 shown.

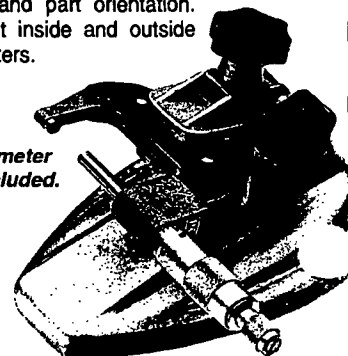


MODEL	TYPE	PRICE
G5622	0-4"	\$32.95
G5623	0-6"	\$39.95

## MICROMETER STAND

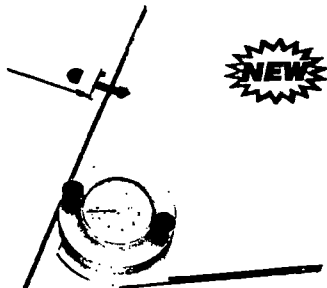
Ease micrometer use and increase precision with this micrometer stand. Cast iron stand features convenient adjustments for optimum reading and part orientation. Fits most inside and outside micrometers.

Micrometer not included.



MODEL G5727 ONLY \$12<sup>95</sup>

## DIAL PROTRACTOR



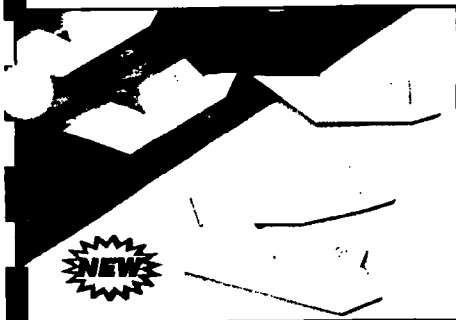
**NEW**

Our new Dial Protractor is just the ticket for finding angles. With built in accuracy and a resolution of 5 minutes, you can get remarkably close measurements in seconds. Comes with beveled blade, 90° reference beam and carrying case.

**MODEL G9900 ONLY \$39<sup>95</sup>**

## ANGLE GAUGE SET

Need to gauge or set angles quickly? Our new Angle Gauge Set will help you find or define angles from 5° to 90° in five degree increments. Each gauge offers male and female included angles. Made of durable stainless steel.



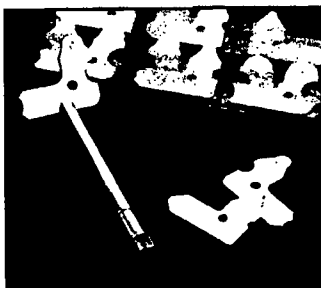
**NEW**

**MODEL G9800 18-pc. ONLY \$17<sup>95</sup>**

## RADIUS GAUGE SETS

Check radii quickly and easily with these stainless steel and satin chrome finish Radius Gauge sets. G9613 includes radii from 1/4" to 1 3/4" by 64ths. G9614 includes radii from .5 to 7mm by 5mm and 8 to 15 mm by 1mm. Each gauge is clearly marked and has five measuring surfaces.

for convex and concave radii and includes a convenient holder.



**NEW**

**MODEL G9613 17-pc. ONLY \$12<sup>95</sup>**

**MODEL G9614 22-pc. ONLY \$14<sup>95</sup>**

## COMBINATION BEVEL / SQUARE

Three-piece Combination Bevel Square has cast iron square and center heads and 12" blade with graduations down to 64ths. Square head features spirit level and hardened scribe. Comes in a protective plastic case.

**MODEL G5725**

**ONLY \$19<sup>95</sup>**

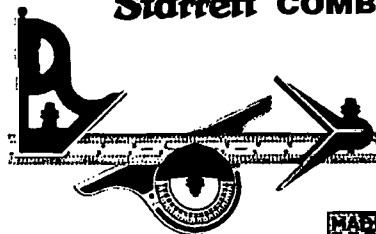
## COMBINATION SQUARE

This four-piece Combination Square has the same features as the three-piece set, but also includes a direct reading double protractor head.

**MODEL G5726**

**ONLY \$29<sup>95</sup>**

## Starrett COMBINATION SQUARE SETS



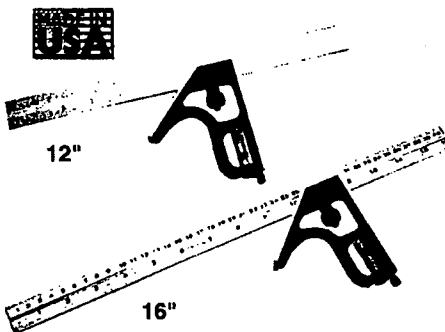
**MADE IN USA**

These combination square sets with cast iron heads include square head, center-head, non-reversible protractor head and blade. Blades are graduated in 8ths, 16ths and quick reading 32nds and 64ths. All the measuring precision you'll ever need!

**MODEL G6470 12" ONLY \$136<sup>95</sup>**  
**MODEL G6469 24" ONLY \$169<sup>95</sup>**

## COMBO SQUARES

Ideal guides for cutting, drilling, or combination marking and measuring, these Johnson squares feature stainless blades, machined diecast handles, hardened scribes and built-in leveling vials. Very nice.



**MODEL G3777 12" ONLY \$7<sup>95</sup>**

**MODEL G3778 16" ONLY \$12<sup>95</sup>**

## ECONOMY COMBINATION SQUARE

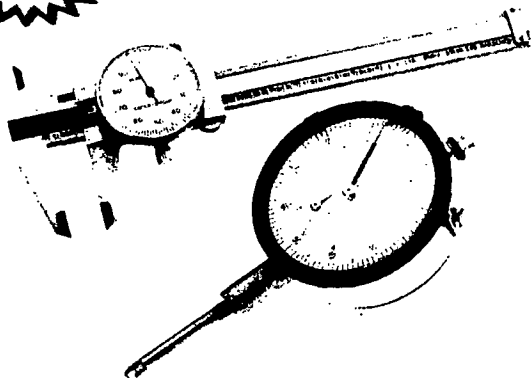
All the essentials for determining plumb and square. 45° and 90° square head, center head, bubble level, and scribe at a terrific, low price. This 12" square offers both metric and fractional graduations on its hardened steel blade. Center and square are finished in a durable baked enamel finish. A pinpoint scribe with a knurled head is housed in the square for quick access.



**MODEL G8072 ONLY \$4<sup>95</sup>**

## 4" DIAL CALIPER/INDICATOR SET

This set is a great start to filling your needs for precise measuring. The small size of the 4" dial caliper makes it extremely convenient to carry, just slip it into a pocket. The caliper measures inside, outside and depth dimensions for greatest versatility. The dial indicator is the best tool for measuring roundness (run-out) and very accurate measurements of short movements. Dial indicator has a 1" range of travel and is graduated in .001" increments.

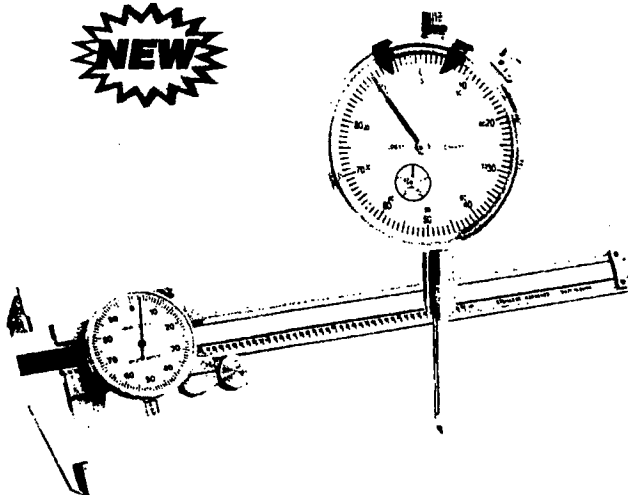


MODEL G9784

ONLY \$22<sup>95</sup>

## 6" DIAL CALIPER/INDICATOR SET

If your needs require a caliper with a 6" range, then take a look at this great set. Same great features as the above Model G9784 kit, but with a larger 6" caliper for even more versatility. Dial indicator has a 1" range of travel and is graduated in .001" increments.

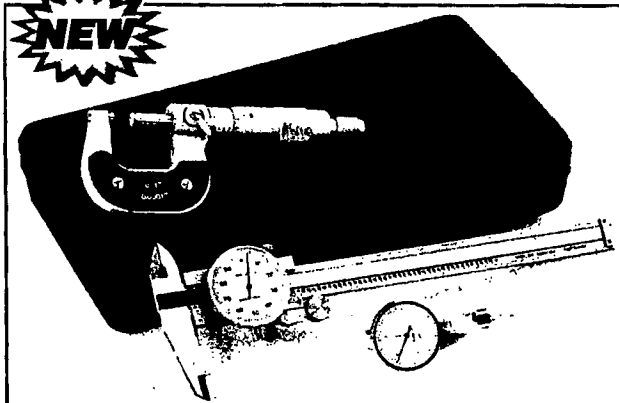


MODEL G9785

ONLY \$29<sup>95</sup>

## 4" DIAL CALIPER/INDICATOR/MICROMETER SET

These precision instruments are a must for quickly determining dimensions or location. The 6" Dial Caliper is hardened stainless steel with easy to read dial, stop and thumb wheel. The Micrometer is carbide tipped, has .0005" graduations and a vernier scale for ten thousandths of an inch. Last, but certainly not least, the dial test indicator is calibrated .0005" and has a range of .030" and the tip can be repositioned. It comes supplied with a 3/8" and 4mm mounting studs.



MODEL G9786

ONLY \$47<sup>95</sup>

## 4-PC. CALIPER/INDICATOR/COMBINATION SQUARE SET



This is an excellent value for a measuring/set-up kit! It includes a 6" stainless steel dial caliper, a 1" micrometer with a vernier scale allowing measurements of .0001" and a precision combination square with a whole list of features by itself! The square has a center finding beam, a protractor beam and of course square with a spirit level. This is a great kit at a great price made for precision set-up and measuring.

MODEL G9787

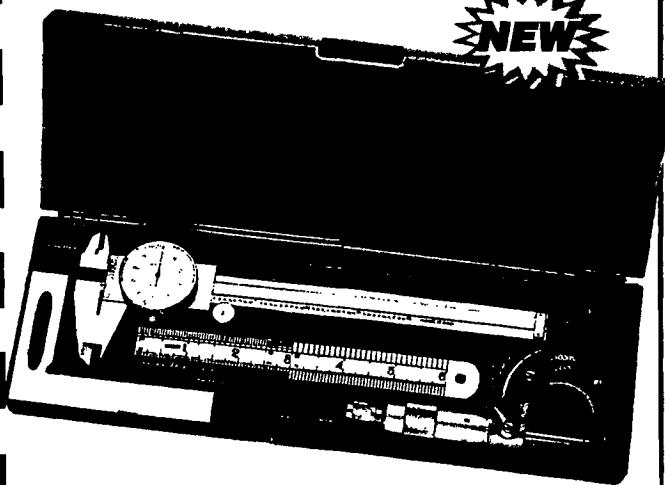
ONLY \$59<sup>95</sup>



MEASURING  
TOOLS

## 4-PC. MEASURING TOOL SET

This is the set you need for accurate measurements. Includes a stainless steel 6" dial caliper, a 6" scale with inch scale on one side and a metric scale on the other, a 1" carbide tipped micrometer with vernier scale and a 4" precision square with beveled edge. Comes with molded case and micrometer adjustment wrench.

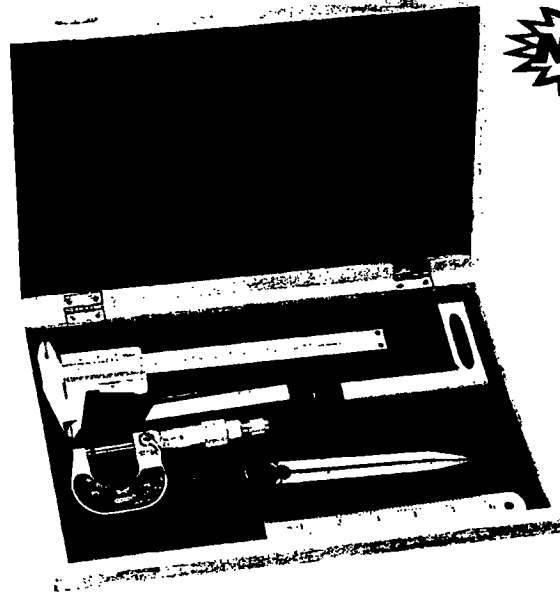


MODEL G9788

ONLY \$31<sup>95</sup>

## 6-PC. MEASURING TOOL SET

A great starter Measuring Tool Set with these fine features: 6" vernier caliper with metric and inch scales, 4" square with beveled edge, 4" straight edge with beveled edge and end, 5" dividers with quick adjusting nut, 6" scale calibrated in inches on one side, millimeters on the other and carrying case.

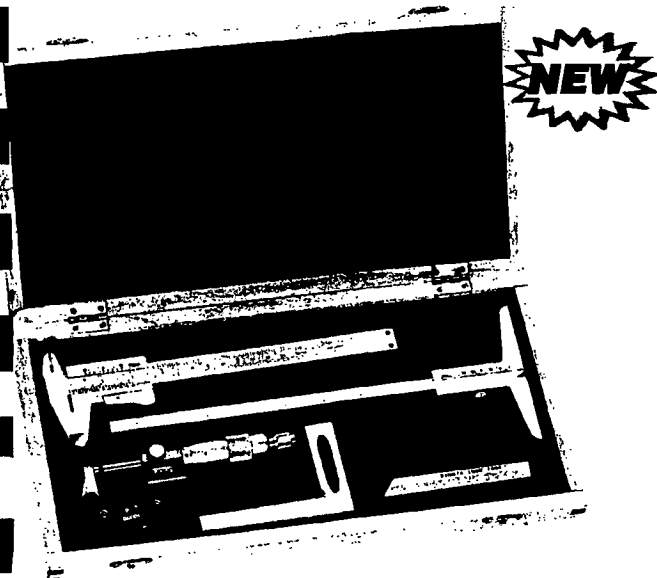


MODEL G9790

ONLY \$34<sup>95</sup>

## 5-PC. MEASURING TOOL SET

This is a great measuring tool set for the hobbyist or professional alike. The set includes a 6" vernier caliper that is calibrated in fractional inches and metric scales, precision 8" depth gauge which is calibrated in thousandths of an inch, a 1" carbide tipped digit micrometer with vernier scale, a 4" precision square with beveled edge, and a 4" straight edge with beveled edge and end. Micrometer adjustment wrench and wooden carrying case included.

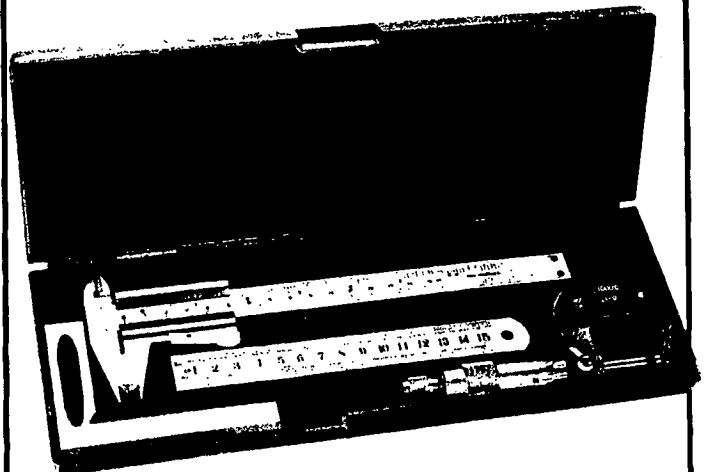


MODEL G9789

ONLY \$59<sup>95</sup>

## MEASURING TOOL SET

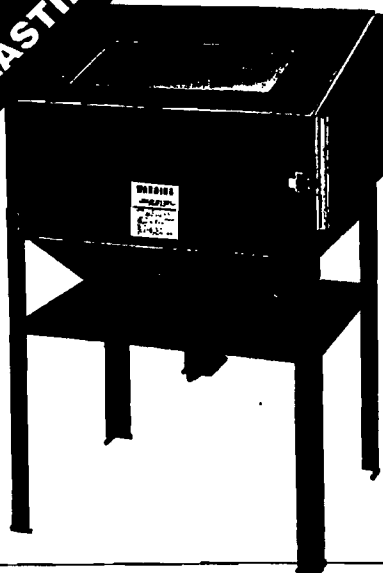
This all-in-one measuring tool set includes a 6" vernier caliper, 0-1" carbide tipped digit micrometer, 6" beveled-edge square and 6" steel rule. All protected in a heavy plastic case.



MODEL G5638

ONLY \$39<sup>95</sup>

**SANDBLASTING**



## SANDBLASTING

### CABINET STYLE SANDBLASTER

Blast away rust, corrosion and paint in an enclosed cabinet to keep dust off the floor and out of the air. Features heavy steel construction, heavy-duty industrial blast gun, tempered glass viewing window, side loading door and sealed rubber gloves. Requires 5 HP or larger air compressor. Overall dimensions are 35" x 22" x 55". Shipping weight approx. 115 lbs.

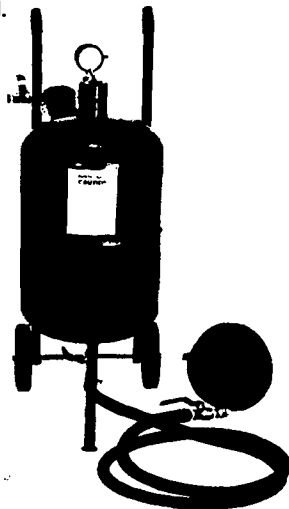
**\$48**  
ANYWHERE IN  
LOWER 48 STATES

MODEL G7146 ONLY \$279<sup>95</sup>

### 10-GALLON SANDBLASTER

Pressurized design gives 30% more sandblasting power than siphon units. Features a high pressure tank, pressure relief safety valve, 3/8" brass valves for air and sand control, pressure gauge, water filter and 9' hose with steel shut off valve and interchangeable ceramic tips. Includes hood and funnel.

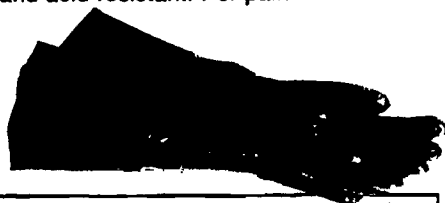
60 to 125 working psi, 6 to 25 working cfm. Shipping weight approx. 45 lbs.



MODEL G7144 ONLY \$169<sup>95</sup>

### SANDBLASTING GLOVES

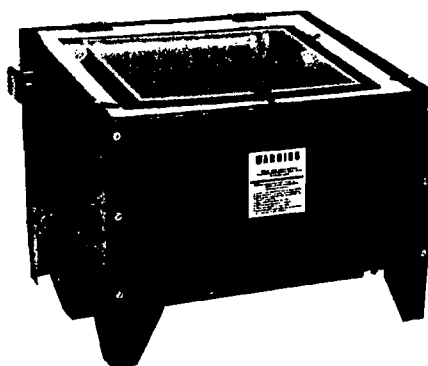
Industrial strength rubber gloves with 11" cuffs protect from finger tip to elbow against damage while sandblasting. Positive grip on hands and fingers. Alkaline and acid resistant. Per pair.



MODEL G7142 ONLY \$9<sup>95</sup>

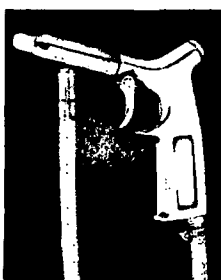
### BENCH TOP SANDBLASTER

Benchtop steel blast cabinet cleans parts quickly and easily with up to 100 psi abrasive flow. You control the high-efficiency air blast inside via the sealed rubber glove ports. For use with glass beads, silica sand, aluminum oxide and more. Features a see-thru plastic top door. Overall dimensions are 23" x 14" x 19". Requires air compressor delivery of 100 psi @ 5 cfm. Shipping weight approx. 38 lbs.



MODEL G7145 ONLY \$119<sup>95</sup>

### SANDBLASTING NOZZLE KIT

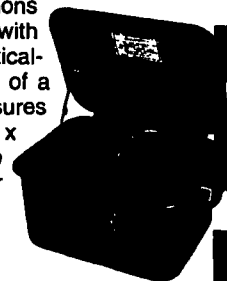


Sandblast with even a small 1 HP compressor at just 2.8 cfm. Includes blaster gun, aspirator tube assembly, 8 foot abrasive supply hose, ceramic nozzle, 2 orifices and 2 hose clamps.

MODEL G7143 ONLY \$29<sup>95</sup>

### 3 1/2 GALLON BENCH-TOP PARTS WASHER

This portable solvent tank features a removable shelf, a sealed .7 amp recirculating motor and a flexible goose neck spigot. Pump provides a flow of approximately 50 gallons per hour. Hinged lid with a fusible link automatically shuts in the event of a flash fire. Tank measures approximately 15 1/4" x 11 1/4" x 8 1/4" (inside dimensions). For approved fluids only.

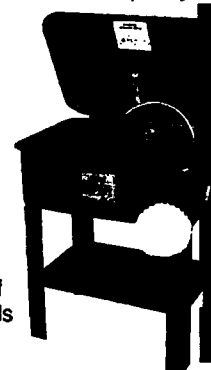


MODEL G4012 ONLY \$49<sup>95</sup>

### 20 GALLON PARTS WASHER

With a 28" x 19" x 10 1/4" tank capacity, this heavy-duty welded steel unit offers plenty of room for big, tough cleaning chores.

Features a .7 amp, self-contained motor that's capable of pumping 50 gallons of solvent per hour, a chromed steel goose-neck spigot and fitted steel lid with a fusible link that automatically drops the lid in case of fire. For approved fluids only.



MODEL G4013 ONLY \$119<sup>95</sup>

### 2 1/2 & 9 GALLON SANDBLASTERS AT1251/ AT1211

The 2 1/2 and 9 gallon sandblasters from Campbell Hausfeld are ideal for stripping, polishing and etching projects. They handle sand as well as liquids and other materials for blasting. Each unit comes complete with gun and accessories.



2 1/2 Gallon Sandblaster

MODEL G2817 ONLY \$39<sup>95</sup>

9 Gallon Sandblaster

MODEL G2818 ONLY \$95

#### ACCESSORIES:

G2819 Replacement Steel Nozzle (For Older Gray Models) ONLY \$9.95

G3327 Replacement Carbide Nozzle (For New Models) ONLY \$24.95

G3328 Replacement Ceramic Nozzle ONLY \$12.95

# SANDBLASTING

## DELUXE SANDBLASTER WITH CABINET



This unibody bench-top sandblasting cabinet is made of a high-tech resin material that eliminates erosion by the blast media. It also features a large viewing window that is easily replaced, fluorescent lighting that eliminates shadows, a 2" dust collection port and an emptying hole for changing abrasives. Cabinet measures 20½" x 18½" and includes blasting gun.

**MODEL G6533 ONLY \$399<sup>95</sup>**

### ACCESSORIES:

MODEL	ITEM	PRICE
G6534	Replacement Nozzle	\$29.95
G6539	Replacement Shield	\$4.95

## SANDBLASTING MEDIA



Loose blasting media for all sandblasting equipment comes in three grits of aluminum oxide and 50 micron size glass bead. Each weighs 15 lbs.

MODEL	Grit	PRICE
G6535	Aluminum Oxide 220	\$44.95
G6536	Aluminum Oxide 120	\$44.95
G6537	Aluminum Oxide 60	\$44.95
G6538	Glass Bead 50 Micron	\$39.95

## ARBOR PRESSES

Available in four powerful size configurations, these handsomely-cast arbor presses take the effort out of stamping, seating and removing bearings and other operations that require simple, well-controlled mechanical pressure. Easy-to-use bench mount design.

### MODEL G4019

**\$20<sup>00</sup>**  
ANYWHERE IN LOWER 48 STATES

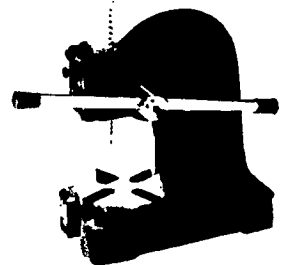
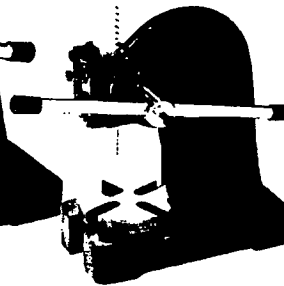
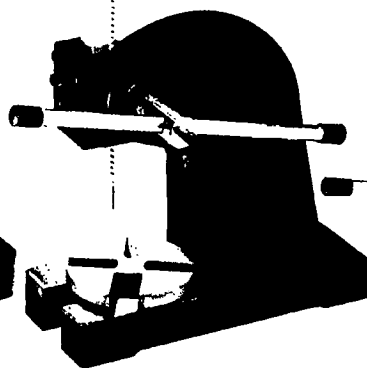
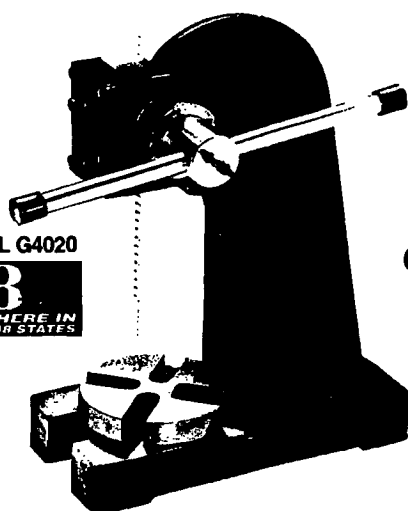
MODEL	CAP.	THROAT	WORK. HGHT.	WGHT.	PRICE
G4017	½ Ton	3"	4"	25 lbs.	\$29.95
G4018	1 Ton	3¾"	5"	38 lbs.	\$39.95
G4019	2 Ton	5"	7¾"	83 lbs.	\$69.95 *
G4020	3 Ton	7½"	11½"	124 lbs.	\$99.95 **

\* SHIP ANYWHERE WITHIN 48 STATES FOR \$20<sup>00</sup>

\*\* SHIP ANYWHERE WITHIN 48 STATES FOR \$48<sup>00</sup>

### MODEL G4020

**\$48<sup>00</sup>**  
ANYWHERE IN LOWER 48 STATES



CALL 24 HOURS A DAY FROM ANYWHERE IN THE U.S.A. 1-800-523-4777

**WELDING**

**MADE IN USA**

**Will Operate Electronics!**

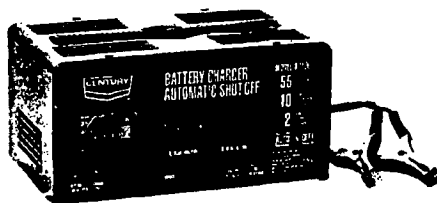
**CORDLESS!**

## 12 VOLT BOOSTER PAC BATTERY CHARGER

**For 6 12V Batteries**

Whether you're looking for a 10 amp fast charger or a tough 55 amp engine starter, you'll find all the kick you need in this portable powerhouse. Also includes a 2 amp trickle for cold weather warm-up. Weighs 11 lbs.

**MODEL G7941 ONLY \$99<sup>95</sup>**



## BATTERY CHARGER

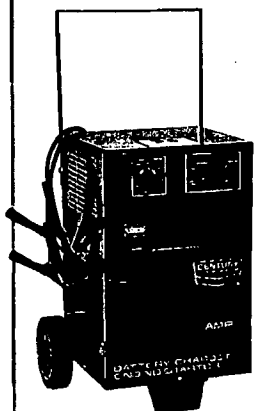
**For 6 and 12V Batteries**

This battery charger has an automatic circuit that shuts off at full charge. Even turns itself back on if more charging is needed! Weighs 11 lbs.

**MODEL G3387 ONLY \$49<sup>95</sup>**

## BATTERY CHARGER

**For 6 and 12V Batteries**

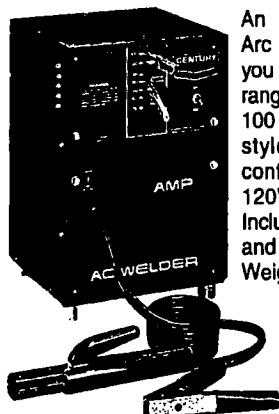


This combination charger and starter has all the heavy-duty power for professional applications. 200 amp starter will turn the most stubborn engine. Weighs 45 lbs.

**MODEL G3388 ONLY \$99<sup>95</sup>**

# CENTURY WELDERS

## 100 AMP ARC WELDER



An excellent compact Arc Welder that gives you a welding output range between 20 and 100 amps. Professional style, infinite amp control. Operates on 120V, 30 amp power. Includes ground clamp and electrode holder. Weighs 48 lbs.

**MODEL G3389 ONLY \$159<sup>95</sup>**

## 230 AMP ARC WELDER

With a variable output ranging from 50 amps to 230 amps, this shop sized arc welder can weld 1/4" steel in a single pass. This 220V welder comes with electrode holder, ground clamp and protective helmet. Weighs 78 lbs.



**MODEL G3390 ONLY \$189<sup>95</sup>**  
SHIP ANYWHERE WITHIN 48 STATES FOR \$20<sup>00</sup>

## 230 AMP ARC WELDER

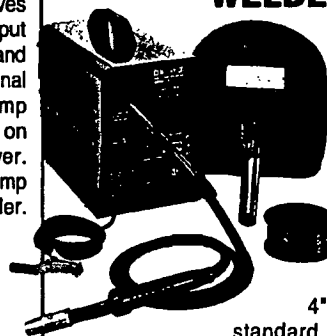
Gutsy AC/DC welder delivers 50 to 230 amps AC and 20 to 140 amps DC. This dual-service welder comes standard with helmet, electrode holder and ground clamp. Weighs 102 lbs.



**MODEL G3391 ONLY \$299<sup>95</sup>**  
SHIP ANYWHERE WITHIN 48 STATES FOR \$48<sup>00</sup>



## CENTURY 80 GASLESS WIRE FEED WELDER



This gasless wire feed welder welds 18 ga. sheet metal up to 3/16" steel. For heat settings and automatic wire feed speed control. Uses .030 flux-core wire on 4" spools. Plugs into standard 120V AC. Includes

pro-quality welding gun, welding nozzle and contact tip, welding shield, starter spool of wire, ground clamp and instruction book.

**MODEL G7991 ONLY \$269<sup>95</sup>**

## 30-125 AMP WIRE FEED WELDER



This 30-125 unit is perfect for advanced hobby, farm and maintenance use. It has 4 heat settings for a wide

welding range. Operates on 120V, 15 amps. Comes with wire, feed gun, ground clamp and manual. Weighs 59 lbs.

**MODEL G7939 ONLY \$329<sup>95</sup>**

## 30-150 AMP WIRE FEED WELDER



Professional 30-150 amp variable heat welder easily handles welds on 1/4" steel down to super thin 26 ga. sheet metal. This 120V, 20 amp unit comes with helmet, wire feed gun, ground clamp, nozzle assortment, shielding-gas regulator, hoses and manual. Weighs 70 lbs.

**MODEL G7940 ONLY \$469<sup>95</sup>**

**HOBART** **MADE IN USA**

# HOBART WELDERS

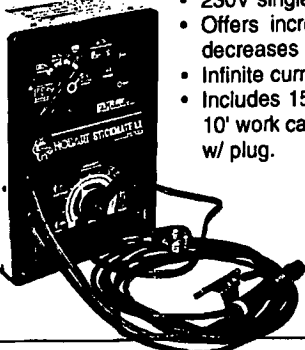


**WELDING**

## STICKMATE™ LX WELDER

AC/DC welding power source is a top performer in its class. It has range and output to handle most stick welding, hard surfacing and cutting jobs.

- 230V single phase
- Offers increased weld time as amperage decreases
- Infinite current control
- Includes 15' electrode cable w/ HD holder, 10' work cable w/ clamp and 6' power cable w/ plug.



**MODEL G7585**

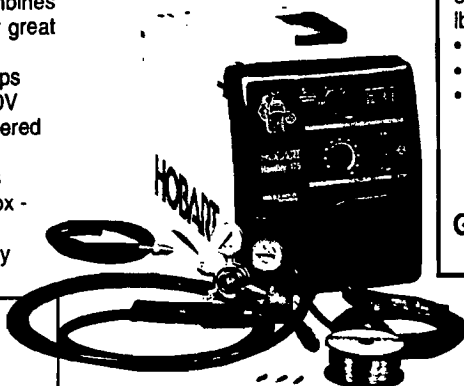
**ONLY \$399<sup>95</sup>**

SHIP ANYWHERE WITHIN  
48 STATES FOR \$20<sup>00</sup>

## HANDLER 175 MIG WELDER

AC MIG welding package combines high output and portability for great performance.

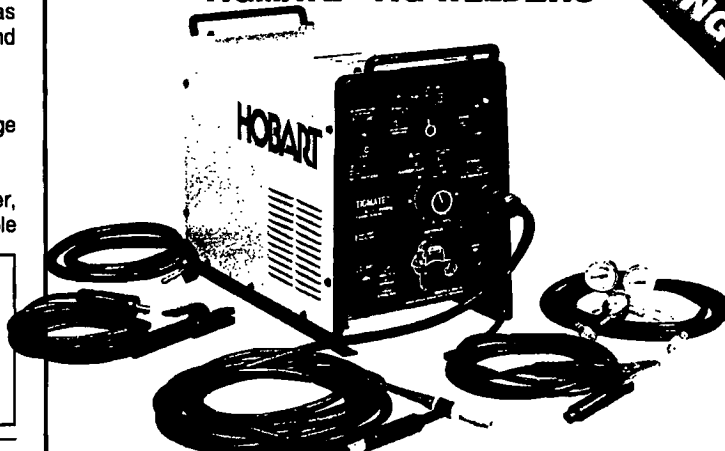
- Output range of 30-175 amps
- Operates with standard 230V
- Industrial drive system powered by quiet, high-torque motor
- Set up for 1 lb. or 8" spools
- Ready to weld out of the box - just add gas and hard wire
- Includes 14-A gun assembly and 10' work cable



**MODEL G7586**  
**ONLY \$649<sup>95</sup>**

SHIP ANYWHERE WITHIN  
48 STATES FOR \$20<sup>00</sup>

## TIGMATE™ TIG WELDERS



Low-frequency output Stick and TIG welder allows welding without risk of interfering with electronics like computers, ignitions or phones. 165 lbs.

- Process switch automatically sets machine for TIG or Stick
- AC output for aluminum welding and DC output for mild or stainless
- Includes TIG torch with control, 12' work cable and clamp, 15' Stick electrode holder and "How To" video.

**MODEL G7587 ONLY \$1299<sup>95</sup>**

SHIP ANYWHERE WITHIN 48 STATES FOR \$48<sup>00</sup>

**G7599 TIGMATE TIG WELDER W/ FOOT CONTROL \$1299.95**

SHIP ANYWHERE WITHIN 48 STATES FOR \$48<sup>00</sup>

## SPOT WELDERS



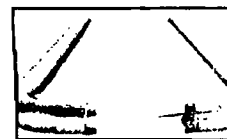
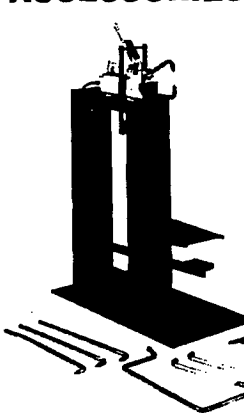
Light-industrial spot welders are lightweight, portable and easy to operate for joining mild, galvanized or stainless steel.

- G7588 welds uncoated mild steel up to 1/8" (combined thickness)
- G7589 welds uncoated mild steel up to 3/16" (combined thickness)
- Quick and easy adjustment for material thickness
- Complete with 6" tongs

<b>G7588</b>	<b>115V</b>	<b>SPOT WELDER</b>	<b>\$399.95</b>	<b>24 lbs.</b>
<b>G7589</b>	<b>230V</b>	<b>SPOT WELDER</b>	<b>\$459.95</b>	<b>34 lbs.</b>

## ACCESSORIES

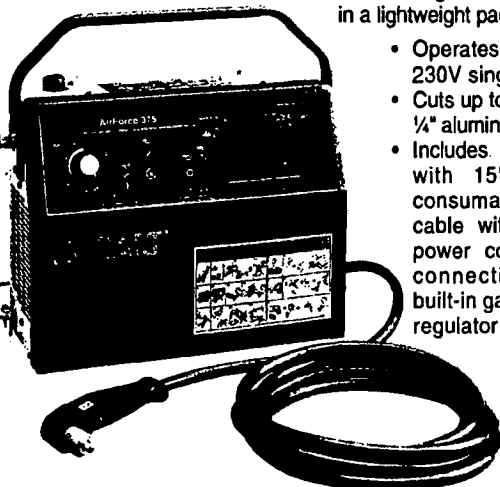
MODEL	TYPE	PRICE
<b>G7591</b>	Pedestal	<b>\$179.95</b>
<b>G7592</b>	Gyro Bail	<b>\$169.95</b>
<b>G7593</b>	Timer for G7588	<b>\$549.95</b>
<b>G7594</b>	Timer for G7589	<b>\$599.95</b>
<b>G7595</b>	6" Tongs	<b>\$49.95</b>
<b>G7596</b>	12" Tongs	<b>\$59.95</b>
<b>G7597</b>	18" Tongs	<b>\$69.95</b>
<b>G7598</b>	Standard Tips	<b>\$9.95</b>



## PLASMA CUTTING PACKAGE

Outstanding cutting performance in a lightweight package.

- Operates on 115V or 230V single phase
- Cuts up to 3/8" mild steel, 1/4" aluminum and 3/16" SS
- Includes ICE-25C torch with 15' cable and consumables, 15' work cable with clamp, 10' power cord and easy connection to the built-in gas/air filter and regulator



**MODEL G7590 ONLY \$1295<sup>95</sup>**

**G7600 Gas Diffuser \$5.95**

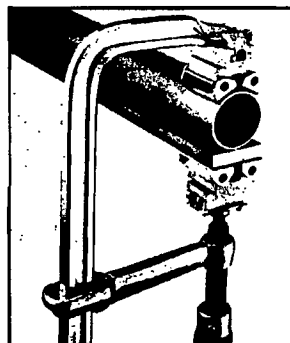
**CALL 24 HOURS A DAY FROM ANYWHERE IN THE U.S.A. 1-800-523-4777**

**WELDING**



## VARIABLE ANGLE DEVICE

• Floating pads tilt 60° inward or outward — ideal for clamping or aligning round, oval and angular pieces • Solves hard to clamp problems without damaging the clamp • Assembly swivels 360° or can be fixed • Easy installation and removal • Fits most bar clamps (clamp not included)



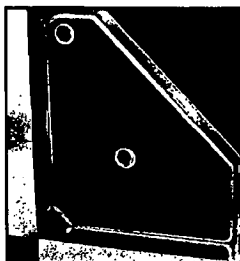
**MODEL**  
H1329

Per Pair

**PRICE**  
ONLY \$37.95

## WELDER'S MAGNETIC SQUARES

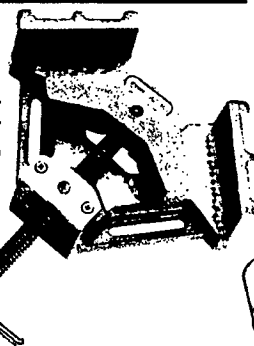
Preferred by welders and steel fabricators, these Welder's Magnetic Squares provide 57 pounds of holding power in both 45° and 90° angles. Measuring 3¼" x 4¾", these handy squares are ideal for joining flat stock, square stock, or steel tubing. The G7012 Compact Magnetic Square measures 3¾" x 3¾".



MODEL	TYPE	PRICE	2 OR MORE
G4948	Open	\$12.95	\$11.95
G7013	Enclosed	\$19.95	\$17.95
G7012	Compact	\$9.95	\$7.95

## ANGLE WELDING CLAMPS

Take the set-up time and effort out of metal-working applications that involve holding material for right angle joining, assembling, welding or grinding. A self-centering jaw quickly adjusts to clamp workpieces, even accommodating pieces of different sizes. The 90° angle clamp is made of high quality cast iron. The spindle, which automatically pivots for an accurate 90° grip, is also copper plated to resist weld spatter. Work surface and base are milled for added precision. Small clamp weighs approximately 11 lbs. Large clamp weighs approximately 20 lbs.

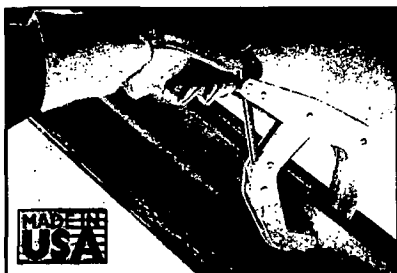


MODEL	TYPE	PRICE
G8028	Small	\$29.95
G8029	Large	\$49.95

**MADE OF CAST IRON**

## KANT TWIST® CLAMPS

Outstanding for welding, these cantilevered clamps offer floating, copper-plated jaws that always stay parallel, so projects won't twist or distort. Spatter-resistant, copper plated screw is in line with jaws, making clamping easier in tight quarters. Available in sizes from 2½" to 6" in regular and deep-throat styles.

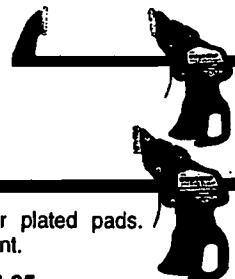


MODEL	CAPACITY	PRICE
G4950	2½" Deep Throat	\$15.95
G4951	3"	\$18.95
G4952	4½" Deep Throat	\$20.95
G4953	6"	\$25.95
G4954	6" Deep Throat	\$28.95

## QUICK-GRIP

**MADE IN USA**

## WELDING CLAMPS

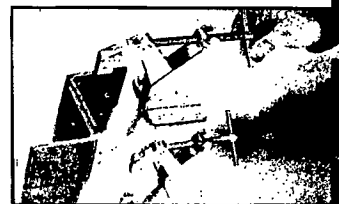


Heat-treated carbon steel jaws and copper plated pads. Innovative pistol grip for one-handed adjustment.

G4665	6" Welding Clamp	\$24.95
G4666	18" Welding Clamp	\$29.95

## T-SLOT FIXTURE CLAMPS

Excellent for production welding operations, these 2½" and 6" capacity fixture clamps mount easily to benches and tool tables, providing quick, one-handed clamping. Pivoting jaw remains parallel to your work at any clamping angle without obstructing vertical clearance. Copper plated threads and clamp face resist spatter.

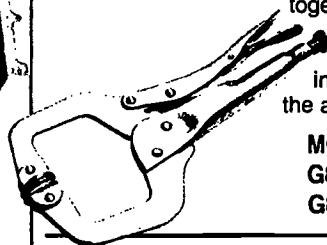


**MADE IN USA**

MODEL	SIZE	PRICE
G4946	2½"	ONLY \$19.95
G4947	6"	ONLY \$39.95

## LOCKING G-CLAMPS

These locking plier-style clamps have a wide jaw for holding parts together for welding. The clamping surface has swivel pads to allow gripping uneven surfaces. Deep throat design increases working space and visibility of the area to be welded.



MODEL	SIZE	PRICE
G8971	6"	ONLY \$9.95
G8972	11"	ONLY \$14.95

## WELDING CLAMP PLIERS

Extra-deep throat capacity and a unique open clamping design make this Vise-Grip® plier a sure winner. U-shaped jaws provide excellent visibility and clamping flexibility. Pliers measure 9" with a 2¾" jaw width and a throat capacity of 1½".



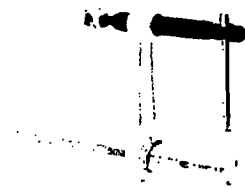
**MODEL G5824 ONLY \$19.95**

**MADE IN USA**



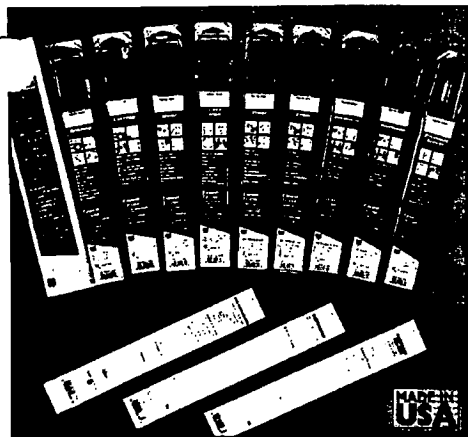
## SLIDING ARM CLAMPS

Sliding arm design saves 90% of clamping time over ordinary C-clamps. These heat-treated clamps also have deeper throats.



MODEL	SIZE	P
H1407	4"	ONLY \$24.95
H2133	8"	ONLY \$30.95
H2134	10"	ONLY \$51.95
H1448	12"	ONLY \$61.95
H1449	20"	ONLY \$70.95

## WELDING ROD



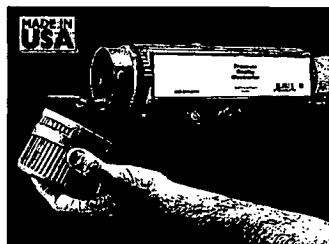
Premium quality welding rods offer all the ease-of-use, weldability and "forgiving" qualities occasional welders need. Choose from a wide range of specialty electrodes for any job, including problem solver for dissimilar steels and rustbuster for extra deep penetration through rust, grease and oil. Professionals love 'em.

MODEL	TYPE	PRICE
G7476	1/8" x 14" Problem Solver Rod 4 pk.	\$4.95
G7477	1/8" x 14" Problem Solver Rod 5 lbs.	\$59.95
G7478	3/32" x 14" Rustbuster Rod 1 lb.	\$3.95
G7479	1/8" x 14" Rustbuster Rod 1 lb.	\$3.95
G7480	1/8" x 14" Rustbuster Rod 5 lbs.	\$16.95
G7481	1/8" x 14" Wearfacing Rod 4 pk.	\$3.95
G7482	1/8" x 14" Wearfacing Rod 5 lbs.	\$19.95
G7483	3/32" x 14" Steel Rod 1 lb.	\$3.95
G7484	1/8" x 14" Steel Rod 1 lb.	\$3.95
G7485	1/8" x 14" Steel Rod 5 lbs.	\$16.95
G7486	1/8" x 14" Cast Iron Rod 3 pk.	\$3.95
G7487	1/8" x 14" Aluminum Rod 4 pk.	\$3.95
G7488	1/8" x 14" Nickel 99 Rod 1 lb.	\$14.95
G7489	1/8" x 14" Stain Steel Rod 1 lb.	\$6.95
G7490	3/32" x 14" Brazing Rod 4 pk.	\$3.95
G7491	3/32" x 14" Cutting Rod 4 pk.	\$3.95
G7497	1/8" x 14" 6011 Welding Rod 10 lbs.	\$14.95
G7498	1/8" x 14" 6013 Welding Rod 10 lbs.	\$14.95
G7499	1/8" x 14" 6018 Welding Rod 10 lbs.	\$16.95

## PLASTIC ROD CONTAINER (10 LB. CAPACITY)

Reusable container holds up to 10 lbs. of electrodes.

MODEL G7523  
ONLY \$5<sup>95</sup>



## MIG WIRE

Available in mild steel solid and flux-core, these MIG wire rolls have the smooth and clean surfaces required for efficient wire feed. Wire produces minimal spatter and is easy to clean-up. Buy 10 lbs. and save.



MODEL	TYPE	PRICE
G7500	70S-6 .023 Mig Wire 10 lbs.	\$26.95
G7501	70S-6 .023 Mig Wire 2 lbs.	\$6.95
G7502	70S-6 .030 Mig Wire 10 lbs.	\$24.95
G7503	70S-6 .030 Mig Wire 2 lbs.	\$5.95
G7504	ER5356 .030 Aluminum Mig Wire 1 lb.	\$7.95
G7505	ER308L .030 Stain Steel Mig Wire 2 lbs.	\$15.95
G7506	Flux Core .030 Mig Wire 2 lbs.	\$14.95
G7507	Flux Core .035 Mig Wire 2 lbs.	\$13.95
G7508	Flux Core .035 Mig Wire 10 lbs.	\$54.95

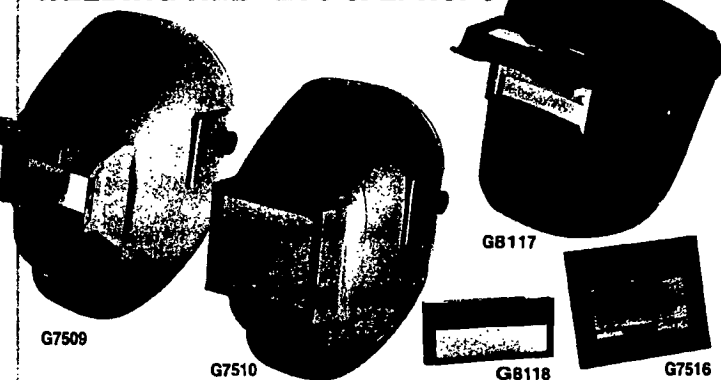
## PREMIUM GAS ROD

For use with oxy-acetylene gas torches, these 18" premium gas rods are for brazing, soldering and welding most metals. Convenient 1 lb. packages.



MODEL	TYPE	PRICE
G7492	3/32" x 18" Copper Steel Rod 1 lb.	\$3.95
G7493	1/8" x 18" Flex Coat Bronze Rod 1 lb.	\$7.95
G7494	1/8" x 18" Bare Bronze Rod 1 lb.	\$7.95
G7495	1/8" x 18" Flex Coat Aluminum Rod 1 lb.	\$5.95

## WELDING HELMETS & LENSES



Comfortable, universal fit welding helmets are made of lightweight polymer. Available in two styles, full vision and flip-up, each includes ratchet type headgear and #10 shaded protective and clear lenses for arc welding. Ultra-thin, auto-darkening welding filters darken instantaneously. Not approved for Oxy-Acetylene, laser welding or plasma cutting. The lens will switch in less than 1 millisecond.

MODEL	TYPE	PRICE
G7509	Welding Helmet with 2" x 4 1/4" Flip-up Lens	\$17.95
G7511	2" x 4 1/4" #10 Shade Lens	\$1.95
G7512	2" x 4 1/4" Clear Cover Plate Lens	\$0.95
G8118*	2" x 4 1/4" Auto Darkening Lens	\$79.95
G7510	Welding Helmet with 4 1/2" x 5 1/4" Stationary Lens	\$28.95
G7513	4 1/2" x 5 1/4" #10 Shade Lens	\$3.95
G7514	4 1/2" x 5 1/4" Clear Cover Plate Lens	\$1.95
G7516	4 1/2" x 5 1/4" Auto Dark Lens	\$249.95
G8117	Welding Helmet with Auto Lens	\$99.95

\* For Use with G8117 Welding Helmet Only

## SAFETY GLASSES & BRAZING GOGGLES

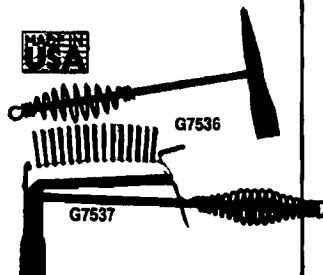
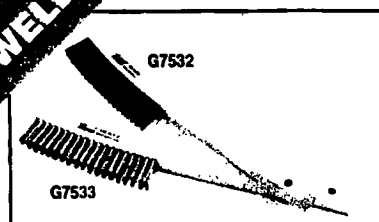
Safety glasses and brazing goggles feature #5 lens protection from infrared rays given off during gas welding, cutting, burning and brazing. Not suitable for arc or mig welding.



G7518	#5 Shade Safety Glasses	\$13.95
G7519	#5 Cup-Style Brazing Goggles	\$6.95
G7520	#5 Deluxe Brazing Goggles	\$9.49
G7515	2" x 4 1/4" #5 Shade Lens	\$1.95

**WELDING**

## WIRE BRUSHES & CHIPPING HAMMERS



### WIRE BRUSHES

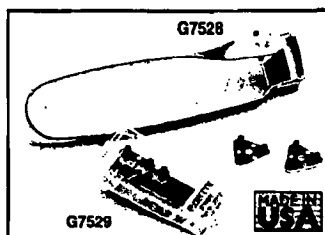
Assorted brushes for various welding tasks. Choose the one that's right for you.

G7532	Steel Wire Brush	\$2.49
G7533	Stainless Steel Wire Brush	\$3.95
G7534	Small Brass Brush	\$1.95
G7535	Small Stainless Steel Brush	\$1.95

### CHIPPING HAMMERS

High quality chipping hammers are made of hardened steel with spring-type handles.

G7536	Heavy-Duty Chipping Hammer	\$7.95
G7537	Brush/Chipping Hammer Combo	\$13.95



### TRIPLE FLINT STRIKER

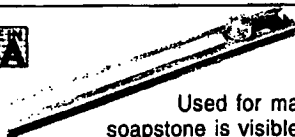
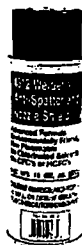
Rugged, high quality lighter is made for the welding trade. This triple flint lighter will ignite under all working conditions and features a round file which provides a sharp surface for continuous sparking.

G7528	Triple Flint Striker	\$3.95
G7529	Replacement Rotating Strikers	\$2.95

### ANTI-SPATTER SPRAY

Keep spatter from sticking on your nozzle. 15 oz. No CFC's.

MODEL G4096  
ONLY \$5.95



### FLAT SOAP STONE AND HOLDER

Used for marking and outlining the weld, the soapstone is visible on steel and alloys where other types of markers won't work.

G7524	Flat Soap Stone - 6 pack	\$1.25
G7525	Flat Soap Stone Holder w/ Stone	\$1.95

### 8oz BRAZING FLUX

Top quality brazing and soldering flux in resealable 8oz container. Don't be caught without it!

MODEL G7496  
ONLY \$4.95

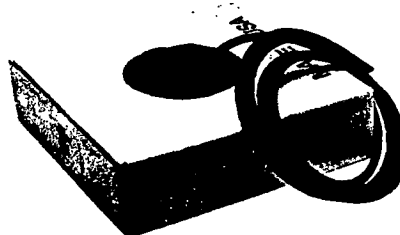
### CORDLESS POWER-LUBER

12V Lincoln Power-Luber is up to 5 times faster than manual grease guns. 30" flex-hose delivers up to 6000 PSI! Includes custom case and charger. Grease sold separately.



H1310	Cordless Power-Luber	\$139.95
H1311	Multi-Purpose Lithium Grease - 10 pack	\$14.95

## WELDING CABLES

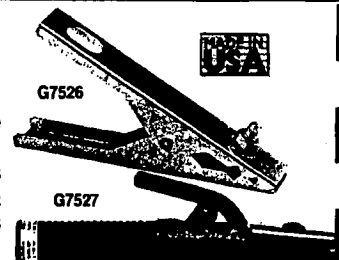


Twenty five foot welding cables in either #2 or #4 gauge wire are conveniently packaged in boxes with center holes for easy removal.

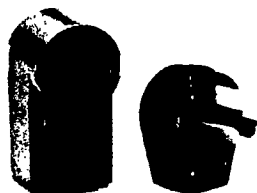
G7542	#2 - 25ft. Welding Cable	\$29.95
G7543	#4 - 25ft. Welding Cable	\$22.95

### GROUND CLAMP & ELECTRODE HOLDER

Designed for safety and simple attachment to welding cables. Ground clamp has easy-open jaws and a large sturdy spring for a strong grip. Electrode holder offers outstanding protection and firm grip.



G7526	200-250 amp Ground Clamp	\$5.95
G7527	200-250 amp Electrode Holder	\$11.49

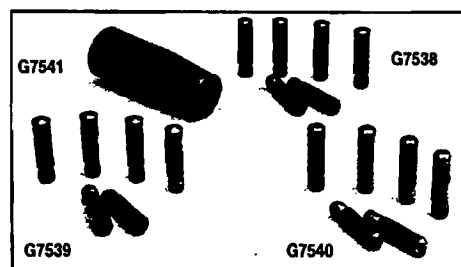


### PLUGS AND RECEPTACLES

50A/220V plug and receptacle feature parallel blade design. Meets NEMA standards.

G7544	Female Crow Foot Receptacle	\$6.95
G7545	Male Crow Foot Plug	\$13.95

### CONTACT TIPS & MIG NOZZLE



#### MIG WIRE CONTACT TIPS

MIG wire contact tips are suitable for MIG welders with mini and #1 MIG guns.

G7538	.025 Contact Tips - 6 pack	\$3.95
G7539	.030 Contact Tips - 6 pack	\$3.95
G7540	.035 Contact Tips - 6 pack	\$3.95

#### COMPLETE 1/2" MIG NOZZLE

MIG nozzle with 1/2" orifice is suitable for MIG welders with mini and #1 MIG guns.

G7541	Complete 1/2" Mig Nozzle	\$8.95
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### TIP CLEANER

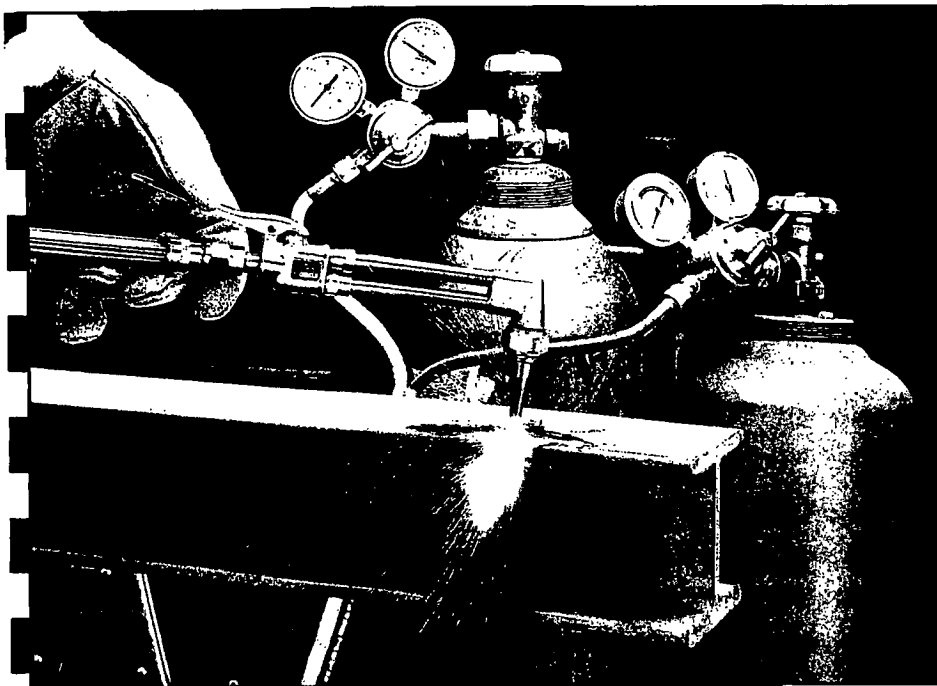
Each tip cleaner kit contains a set of 13 cleaners, sizes six through 26, plus file in a handy folding case.

G7530	Long Tip Cleaner	\$5.95
G7531	Tip Cleaner	\$3.49

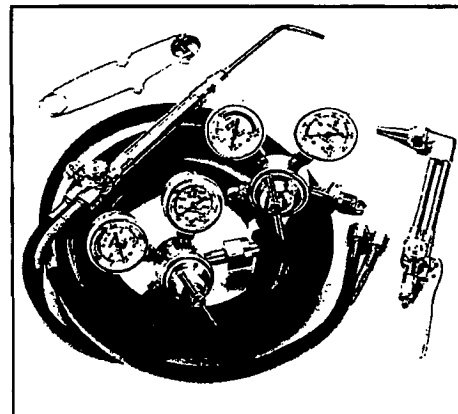


## OXY/ACETYLENE TORCH KIT

**WELDING**



This complete cutting, welding and brazing torch kit includes two regulators with 2" gauges, torch handle, cutting attachment with #0 cutting tip, #2 welding/brazing tip, 12½ ft. hose and striker. Oxygen and acetylene cylinders not included.



### MODEL G5892 OXY/ACETYLENE TORCH KIT

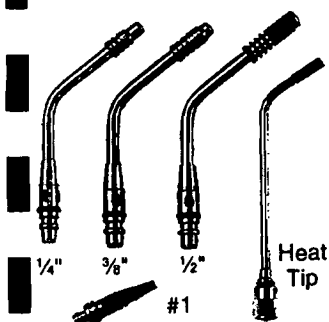
**ONLY \$199<sup>95</sup>**

#### TIPS



Different jobs often require different tips. You can never have too many!

MODEL	SIZE / TYPE	PRICE
G5866	¼"	\$37.95
G5867	⅜"	\$37.95
G5868	½"	\$37.95
G5869	#1 Cutting Tip	\$15.95
G5870	Heating Tip	\$24.95

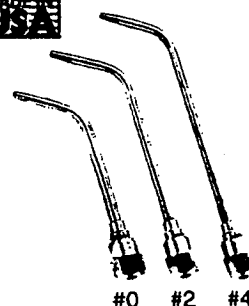


#### WELDING/BRAZING TIPS



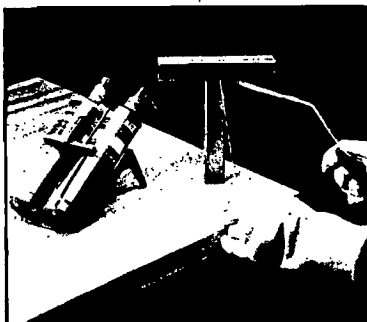
You'll want to keep a variety of these high-quality tips on hand for different welding and brazing requirements. Choose from #0, #2, and #4 sizes.

MODEL	SIZE	PRICE
G5871	#4 Welding/Brazing Tip	\$13.95
G5872	#2 Welding/Brazing Tip	\$13.95
G5873	#0 Welding/Brazing Tip	\$13.95



### OXYGEN BRAZE - WELD - CUT KIT

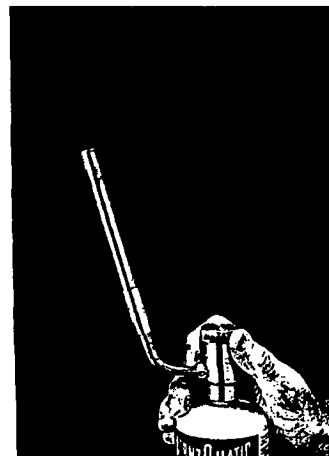
Using propane or MAPP® gas and oxygen, this high-quality torch can develop a 5200°F flame. Includes burner wand, hose, automatic pressure-regulated head, cylinder stand, striker and brazing/welding rods. A versatile tool in a compact package! Gas cylinders not included.



**MODEL G5875**  
**ONLY \$49<sup>95</sup>**

### BRAZING TORCH

This high output, swirl flame torch features a 360° swivelling burn tube, regulated pressure, removable burn tube for replacement or use of accessories, rugged brass and stainless steel construction, adjustable flame control and removable orifice for easy cleaning. Burns propane or MAPP® gas.



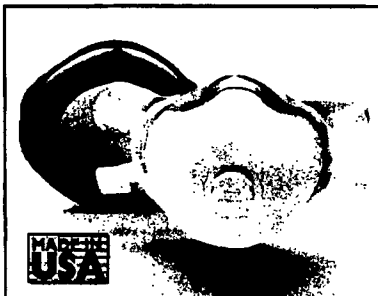
**MODEL G7901**  
**ONLY \$49<sup>95</sup>**

**CALL 24 HOURS A DAY FROM ANYWHERE IN THE U.S.A. 1-800-523-4777**

**WELDING**

## WELDING RESPIRATORS

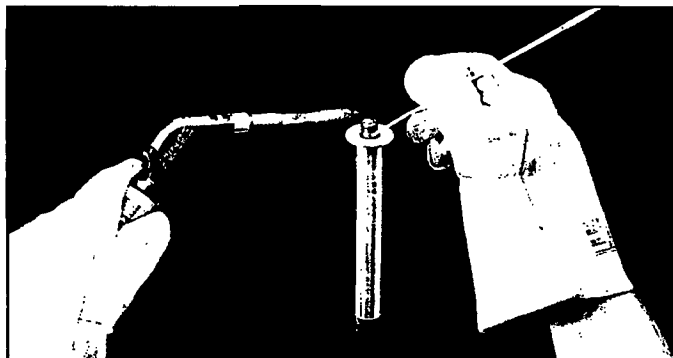
Flame retardant outer shell is recommended for welding applications. Special depth filter provides high loading capacity for metal fumes without increasing breathing resistance. Heavy-duty adjustable headstrap and soft, closed cell foam face seal offers maximum comfort, protection and fit. Package of five respirators. 5 pack.



MODEL G7868 ONLY \$24<sup>95</sup>

## AIR/ACETYLENE TORCH KIT

This commercial air acetylene torch kit features 3/8" spark igniting swirl flame tip, quick disconnect torch handle, 12 ft. hose with "A" fittings and solid brass regulator with 2" contents gauge that fits "B" acetylene cylinders.

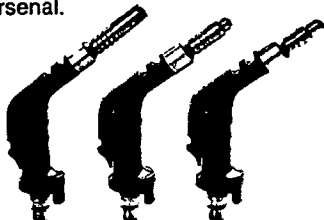


MODEL G5862  
ONLY \$149<sup>95</sup>

## SPARK IGNITING SWIRL FLAME TIPS

No striker? No problem! These high-quality, swirl-flame tips are self igniting and are sold in three popular sizes. An excellent addition to your welding arsenal.

**MADE IN USA**

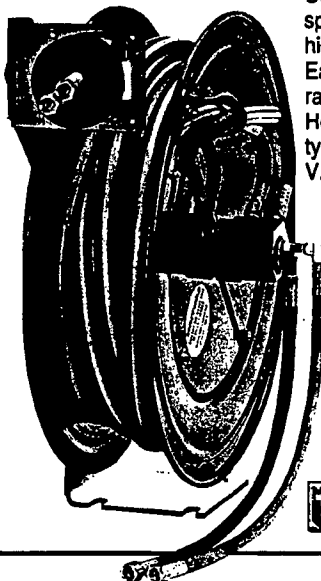


MODEL	SIZE	PRICE
G5863	1/4"	\$39.95
G5864	3/8"	\$39.95
G5865	1/2"	\$39.95

**COXREELS**

## OXY/ACETYLENE HOSE REELS

Coxreels oxy-acetylene hose reel spring driven with auto-rewind using highest quality, heavy gauge materials. Each reel is supplied with a locking ratchet and 18" inlet hose assembly. Hose supplied on reel is twin-siamese type meeting R.M.A. and C.G.A. type V.D. grade R specifications.



MODEL G7874 w/ 50' Dual Hose  
\$279<sup>95</sup>

MODEL G7875 w/o Hose  
\$224<sup>95</sup>

MODEL H1398 w/ 25' Dual Hose  
\$219<sup>95</sup> **NEW**

MODEL H1399 w/o Hose  
\$209<sup>95</sup> **NEW**

## SELF IGNITING TORCH

Ideal for all soldering and brazing projects, this self igniting torch features instant-on trigger start ignitor, stainless steel burn tube and is regulated for cold weather use. Burns both MAPP® and propane gas (not included).

MODEL G7900  
ONLY \$59<sup>95</sup>



## 2-PC MICRO TORCH KIT

Small butane powered torch for precision light soldering, polyfoam cutting and heating. Push button igniting micro torch kit includes torch and soldering tip. Refillable. Butane not included.



MODEL G7902  
ONLY \$29<sup>95</sup>

## HANDY POCKET TORCH

Refillable, high output pocket sized butane torch features push-button ignitor, cap and adjustable flame. Just the ticket for any quick heating project including soldering and craft use. Butane fuel not included.

MODEL G7903  
ONLY \$19<sup>95</sup>



## LEATHER WELDING CAPE WITH 20" BIB

Leather cape has full length sleeves, snug crew-type collar and a chest protecting bib. Keeps the sparks off skin and clothes. Reinforced snaps make it easy to get on and off. Soapstone holders on each sleeve. Great for overhead work!



MODEL G9122  
ONLY \$61<sup>95</sup>



## LEATHER WELDING APRON W/ 42" BIB

Apron has a large protective bib area and heavy-duty crossed back straps for comfort. Plastic side release buckles for easy on and off. Includes two chest pockets for easy access to welding accessories.



MODEL G9123  
ONLY \$37<sup>75</sup>



## LEATHER ROD HOLDER

Rod holder is reinforced with grommets for strength. Handy spring clip allows the holder to be clipped to belt or apron. Measures approximately 13" long x 3" diameter.



MODEL G9121 ONLY \$7<sup>95</sup>

## PREMIUM WELDING GLOVES

Premium leather gloves are made from soft, supple top-grain leather for maximum comfort and pliability. Protects from molten metal as well as ultraviolet rays which can cause skin burns. Gloves are an extra long 18" to cover forearms. One size fits all.



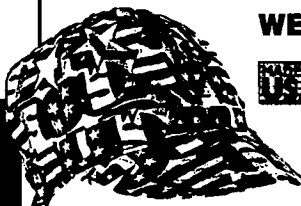
MODEL G9127 ONLY \$32<sup>95</sup>



## WELDER'S HAT



Show your true colors with this durable and washable, all-cotton welder's hat. One size fits all. Multi-colored.

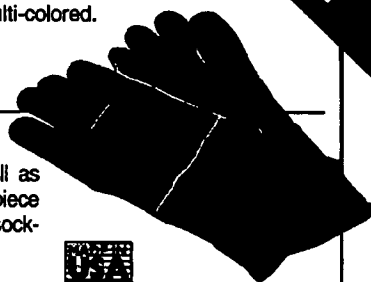


MODEL G7521 ONLY \$9<sup>49</sup>

## WELDER'S GLOVES

Protect against molten metal as well as ultraviolet rays. These 14", one piece back, split cowhide gloves are fully sock-lined and sewn with cotton thread.

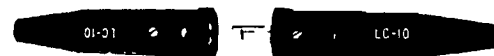
MODEL G7522 ONLY \$8<sup>49</sup>



## CABLE CONNECTORS

A simple twist and lock feature makes quick welding cable connections and disconnections a breeze.

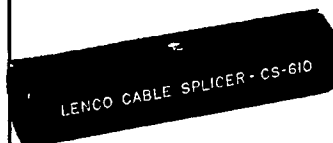
These Cable Connectors will handle cable up to AWG #1/0 and feature heavy-duty screw lugs.



MODEL	COLOR	PRICE
G9124	Black	ONLY \$12.95
G9125	Red	ONLY \$12.95



## CABLE SPLICER



For adding extra length or making on-the-job repairs, these cable splicers are indispensable. Heavy-duty screw lugs make cable splices secure and maintenance free.

MODEL G9126 ONLY \$10<sup>95</sup>

## MAGNETIC GROUND CLAMPS



Magnetic attraction and spring loaded stud for a secure ground anywhere. 800 Amp model has copper stud for higher efficiency and longer life.

MODEL H2131 250 AMP ONLY \$30<sup>95</sup>

MODEL H2132 800 AMP ONLY \$38<sup>95</sup>



## WELDING CABLE LUGS

Need to make a solid electrical connection? Then crimp on some of these lugs which are made of high conductivity wrought copper. Sold in pairs. Select the size you need by wire gauge and hole diameter.

MODEL	TYPE	PRICE
G9128	2 pk. #2-6	\$3.49
G9129	2 pk. #1 & 2	\$3.95
G9130	2 pk. #8 Size 10	\$1.95
G9131	2 pk. #6 Size 1/4"	\$1.95
G9132	2 pk. #4 Size 5/16"	\$1.95
G9133	2 pk. #4 Size 3/8"	\$1.95
G9134	2 pk. #2 Size 5/16"	\$1.95
G9135	2 pk. #2 Size 3/8"	\$1.95
G9136	2 pk. #1 Size 3/8"	\$1.95
G9137	2 pk. #1/0 Size 3/8"	\$2.45
G9138	2 pk. #2/0 Size 3/8"	\$2.45
G9139	2 pk. #2/0 Size 1/2"	\$2.45
G9140	2 pk. #3/0 Size 1/2"	\$3.95



## METAL FASTENERS

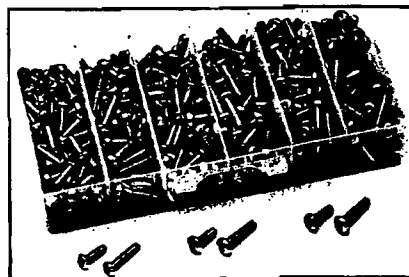


### FLAT HEAD MACHINE SCREW KIT

150-piece collection contains the most popular sizes: #8-32 in 1/2" and 3/4" lengths; #10-24 in 1/2" and 3/4" lengths; and 1/4"-20 in 3/4" and 1" lengths. Kit includes a six-compartment, clear plastic case.

MODEL G4973 ONLY **\$12<sup>95</sup>**

### ROUND HEAD MACHINE SCREW KIT



380-piece set includes round head machine screws in the following sizes: #8-32 in 1/2" and 3/4" lengths; #10-24 in 1/2" and 3/4" lengths; and #10-32 in 1/2" and 3/4" lengths. Kit includes a six-compartment, clear plastic case. Square drive.

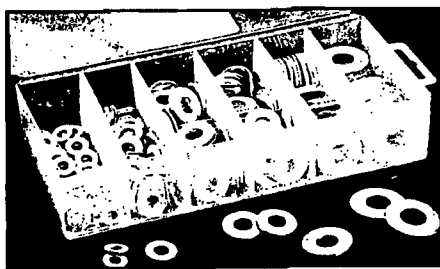
MODEL G6544 ONLY **\$12<sup>95</sup>**

### BUTTON HEAD MACHINE SCREW KIT



180-piece set includes black buttonhead screws in the following sizes: #8-32 in 1/2" and 3/4" lengths; #10-24 in 1/2" and 3/4" lengths; and #10-32 in 1/2" and 3/4" lengths. Kit includes a six-compartment, clear plastic case.

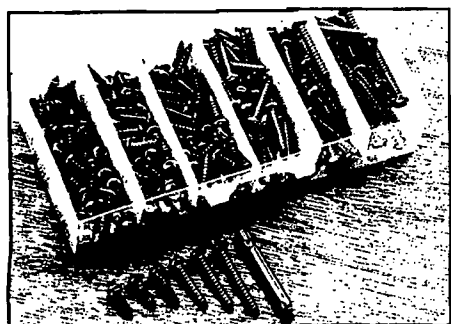
MODEL G4974 ONLY **\$12<sup>95</sup>**



### FLAT WASHER KIT

Flat washers galore in the popular #8 and #10 sizes in 1/4", 3/16", 3/8" diameters. Washers are contained and sorted in a sturdy clear plastic, six-compartment container. 370 pieces.

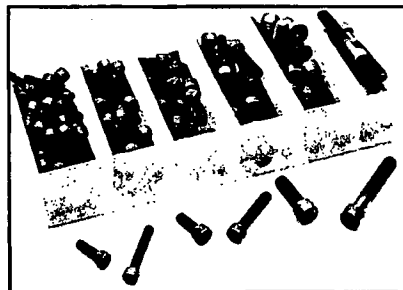
MODEL G4977 ONLY **\$9<sup>95</sup>**



### #10 PAN HEAD SCREW KIT

Square drive, oval head kit in a plastic box includes: 45 1/2", 45 3/4", 40 3/4", 35 1", 25 1 1/4", and 20 1 1/2" screws.

MODEL G6403 ONLY **\$19<sup>95</sup>**

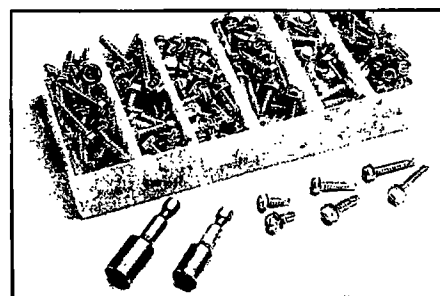


### ALLEN® HEAD CAP SCREW KIT

This 145-piece assortment contains cap screws in the following sizes: #8-32 in 1/2" and 1" lengths; #10-24 in 1/2" and 1" lengths; and 1/4"-20 in 3/4" and 1 1/2" lengths. Kit includes a six-compartment, clear plastic case.

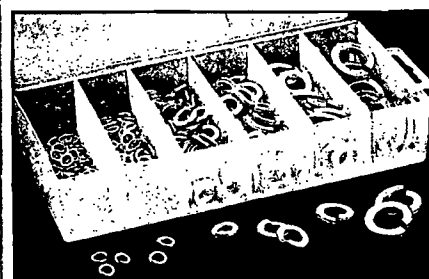
MODEL G4972 ONLY **\$11<sup>95</sup>**

### HEX WASHER HEAD TEK SCREW KIT



305-piece kit of #8 and #10 washer-head screws in the following lengths: 1/2", 3/4", and 1". Kit includes two Tek drivers and comes in a clear plastic, six-compartment case.

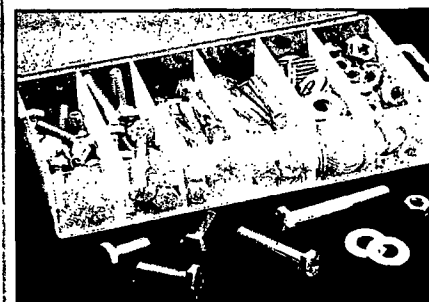
MODEL G4975 ONLY **\$15<sup>95</sup>**



### LOCK WASHER KIT

A veritable lock washer bonanza brought to you in #8 and #10 sizes with 1/4", 3/16", 3/8" diameters. All neatly sorted in a clear plastic, six-compartment case. 425 pieces.

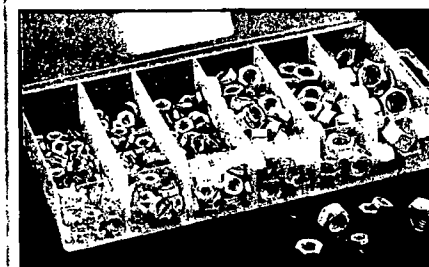
MODEL G4978 ONLY **\$9<sup>95</sup>**



### 1/4" - 20 BOLT KIT

This 1/4"-20 kit features bolts in the following lengths: 3/4", 1", 1 1/2" and 2", plus the accompanying nuts and washers. Kit is housed in a clear plastic case that slides onto a shelf or hangs on a peg.

MODEL G4976 ONLY **\$7<sup>95</sup>**



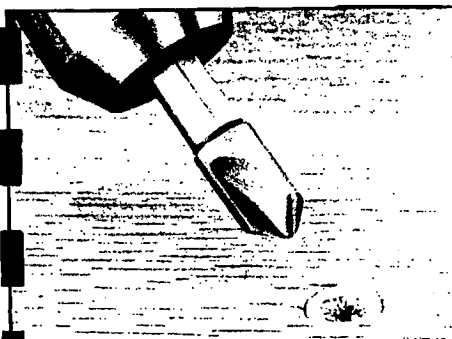
### HEX NUT KIT

405-piece hex nut assortment in a six-compartment, clear plastic case. Contains #6-32, #8-32, 1/4"-20, 3/16"-18 and 3/8"-16 hex nuts.

MODEL G4979 ONLY **\$7<sup>95</sup>**

## X-OUT™ SCREW EXTRACTORS

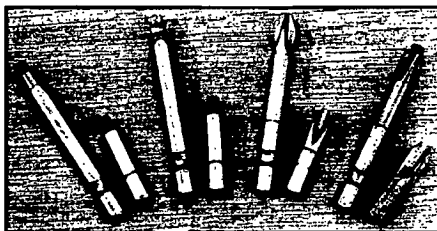
Remove damaged screws with stripped out as fast and easy with these X-OUT™ Screw Extractors. Compatible with 1/4" quick bits, extractors simply chuck into any variable speed hand drill. Available in three sizes for #6 to #14 screws, or as a complete set.



MODEL	TYPE	PRICE
H1403	Removes #6 to #8 Screws	\$9.95
H1404	Removes #8 to #10 Screws	\$9.95
H1405	Removes #10 to #14 Screws	\$9.95
H1406	Set of Three	\$24.95

## HEX POWER BITS

The ideal companions for your cordless driver drill, these hex shaft bits are available in both one- and two-inch lengths, so they work directly in the chuck or in quick-change bit holders.



MODEL	TYPE	PRICE
G4200	#1-1" SQ	79¢
G4201	#1-2" SQ	79¢
G4202	#2-1" SQ	79¢
G4203	#2-2" SQ	79¢
G4204	#2-1" Phil	89¢
G4205	#2-2" Phil	89¢
G4206	#2-1" QX	99¢
G4207	#2-2" QX	\$1.59

## LAB-METAL

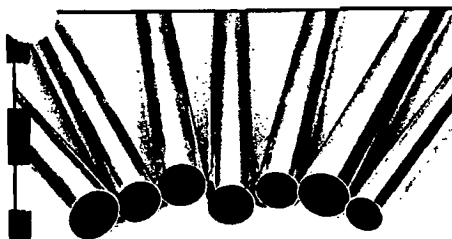
Repair, fill and patch defects in metal and non metal products. Lab-metal spreads like paste, hardens into metal for fast, durable repairs. Adheres to metal, wood, plaster, glass and plastic. Hardened Lab-metal can be drilled, tapped and sanded smooth and withstands temperatures of 350° F. May be painted or powder coated. Available in 12 oz. and 24 oz. sizes.



MODEL	TYPE	PRICE
H1452	12 oz. Net Weight	\$14.95
H1453	24 oz. Net Weight	\$21.95

## METAL STOCK

### ROUND TUBING (.014)



#### BRASS

MODEL	DIA	LENGTH	PRICE
G7609	1/16"	12"	\$0.75
G7610	3/32"	12"	\$0.90
G7611	1/8"	12"	\$0.95
G7612	5/32"	12"	\$1.00
G7613	3/16"	12"	\$1.05
G7614	7/32"	12"	\$1.13
G7615	1/4"	12"	\$1.23
G7616	9/32"	12"	\$1.35
G7617	5/16"	12"	\$1.55
G7618	11/32"	12"	\$1.58
G7619	3/8"	12"	\$1.70
G7620	13/32"	12"	\$1.93
G7621	7/16"	12"	\$2.13
G7690	15/32"	12"	\$2.25
G7691	1/2"	12"	\$2.33
G7692	17/32"	12"	\$2.53
G7693	9/16"	12"	\$2.70
G7694	19/32"	12"	\$2.88
G7695	5/8"	12"	\$3.08
G7696	21/32"	12"	\$3.25

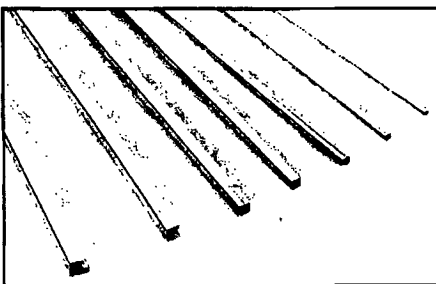
#### COPPER

MODEL	DIA	LENGTH	PRICE
G7634	1/16"	12"	\$0.75
G7635	3/32"	12"	\$0.88
G7636	1/8"	12"	\$0.95
G7637	5/32"	12"	\$1.08

#### ALUMINUM

MODEL	DIA	LENGTH	PRICE
G7601	1/16"	12"	\$0.58
G7602	3/32"	12"	\$0.65
G7603	1/8"	12"	\$0.68
G7604	5/32"	12"	\$0.70
G7605	3/16"	12"	\$0.78
G7606	7/32"	12"	\$0.80
G7607	1/4"	12"	\$0.88
G7608	9/32"	12"	\$0.95
G7736	1/2"	36"	\$2.05
G7737	3/4"	36"	\$3.15
G7738	1"	36"	\$4.28

### SQUARE TUBING (.014)



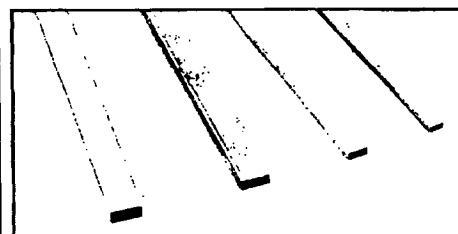
#### ALUMINUM

MODEL	HEIGHT X WIDTH	LENGTH	PRICE
G7739	3/4" X 3/4"	36"	\$5.10
G7740	1" X 1"	36"	\$6.95

#### BRASS

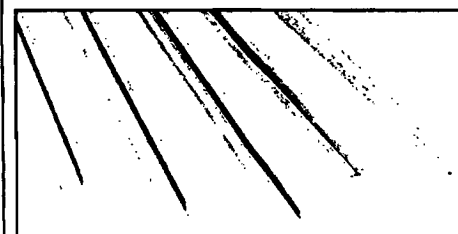
MODEL	HEIGHT X WIDTH	LENGTH	PRICE
G7622	1/16" X 1/16"	12"	\$1.23
G7623	3/32" X 3/32"	12"	\$1.35
G7624	1/8" X 1/8"	12"	\$1.43
G7625	5/32" X 5/32"	12"	\$1.58
G7626	3/16" X 3/16"	12"	\$1.83
G7627	7/32" X 7/32"	12"	\$1.98
G7628	1/4" X 1/4"	12"	\$2.15

### RECTANGULAR TUBING - BRASS



MODEL	HEIGHT X WIDTH	LENGTH	PRICE
G7629	3/32" X 3/16"	12"	\$2.15
G7630	1/8" X 1/4"	12"	\$2.40
G7631	5/32" X 3/16"	12"	\$2.63
G7632	3/16" X 3/8"	12"	\$2.88

### CHANNEL



#### ALUMINUM (.125)

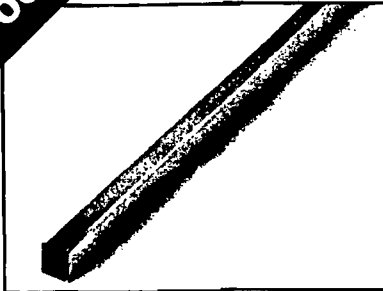
MODEL	HEIGHT X WIDTH	LENGTH	PRICE
G7731	3/4" X 3/4"	36"	\$6.63
G7732	1" X 1"	36"	\$9.13

#### BRASS (.015)

MODEL	HEIGHT X WIDTH	LENGTH	PRICE
G7655	1/8" X 1/8"	12"	\$1.18
G7656	1/8" X 5/32"	12"	\$1.28
G7657	1/8" X 3/16"	12"	\$1.33
G7658	1/8" X 7/32"	12"	\$1.38
G7659	1/8" X 1/4"	12"	\$1.43

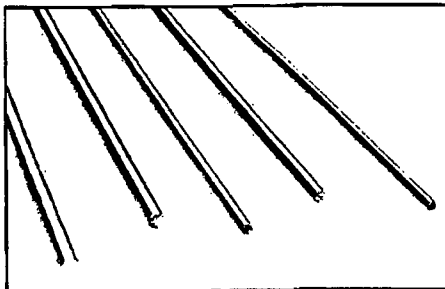
# METAL STOCK

## TRIM CHANNEL - ALUMINUM



MODEL	PLYWOOD SIZE	LENGTH	PRICE
G7733	1/4"	48"	\$2.80
G7734	3/8"	48"	\$3.08
G7735	1/2"	48"	\$3.35

## ROUND



### ALUMINUM

MODEL	DIA	LENGTH	PRICE
G7708	1/4"	36"	\$1.35
G7709	3/8"	36"	\$2.93
G7710	1/2"	36"	\$5.20
G7711	3/4"	36"	\$8.13

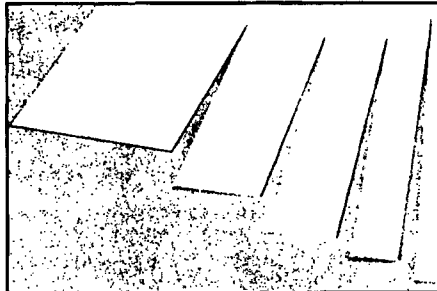
### BRASS

MODEL	DIA	LENGTH	PRICE
G7639	.020"	12"	\$0.40
G7640	.03125"	12"	\$0.45
G7641	.0468"	12"	\$0.48
G7642	.0625"	12"	\$0.58
G7643	.072"	12"	\$0.70
G7644	.081"	12"	\$0.78
G7645	.09375"	12"	\$0.83
G7646	.125"	12"	\$0.88
G7647	.114"	12"	\$0.98
G7648	.15625"	12"	\$1.28
G7649	.1875"	12"	\$1.43
G7741	.125"	36"	\$1.48
G7742	.1875"	36"	\$2.98
G7743	.25"	36"	\$4.83
G7744	.3125"	36"	\$7.53
G7745	.375"	36"	\$10.18

### SOFT BRASS

MODEL	DIA	LENGTH	PRICE
G7633	1/8"	12"	\$1.13

## FLAT



### ALUMINUM

MODEL	HEIGHT X WIDTH	LENGTH	PRICE
G7715	1/16" X 1/2"	36"	\$0.83
G7716	1/16" X 3/4"	36"	\$1.25
G7717	1/16" X 1"	36"	\$1.65
G7718	1/16" X 1 1/4"	36"	\$3.70
G7719	1/16" X 1 1/2"	36"	\$2.38
G7720	1/8" X 1/2"	36"	\$1.65
G7721	1/8" X 3/4"	36"	\$2.48
G7722	1/8" X 1"	36"	\$3.30
G7723	1/8" X 1 1/4"	36"	\$5.70
G7724	1/8" X 1 1/2"	36"	\$5.00

### BRASS

MODEL	HEIGHT X WIDTH	LENGTH	PRICE
G7660	.016" X 1/4"	12"	\$0.70
G7661	.016" X 1/2"	12"	\$0.75
G7662	.016" X 3/4"	12"	\$0.88
G7663	.016" X 1"	12"	\$0.98
G7664	.016" X 2"	12"	\$1.70
G7665	.025" X 1/4"	12"	\$0.80
G7666	.025" X 1/2"	12"	\$0.88
G7667	.025" X 3/4"	12"	\$1.18
G7668	.025" X 1"	12"	\$1.35
G7669	.025" X 2"	12"	\$2.40
G7670	.032" X 1/4"	12"	\$0.88
G7671	.032" X 1/2"	12"	\$0.95
G7672	.032" X 3/4"	12"	\$1.23
G7673	.032" X 1"	12"	\$1.45
G7674	.032" X 2"	12"	\$2.63
G7675	.064" X 1/4"	12"	\$1.18
G7676	.064" X 1/2"	12"	\$1.70
G7677	.064" X 3/4"	12"	\$2.23
G7678	.064" X 1"	12"	\$2.83
G7679	.064" X 2"	12"	\$4.45
G7746	1/16" X 1/2"	36"	\$9.33
G7747	1/16" X 3/4"	36"	\$12.00
G7748	1/8" X 1"	36"	\$22.50
G7749	1/8" X 1 1/4"	36"	\$30.83

## ASSORTED BRASS AND OR COPPER SHIMS

MODEL G7689

ONLY \$3.83

## SHEET METAL

### ALUMINUM

MODEL	HEIGHT X WIDTH	LENGTH	PRICE
G7680	.016" X 4"	10"	\$1.58
G7681	.032" X 4"	10"	\$2.05
G7682	.064" X 4"	10"	\$2.93
G7706	.025" X 6"	24"	\$3.88

### COPPER

MODEL	HEIGHT X WIDTH	LENGTH	PRICE
G7687	.025" X 4"	10"	\$5.00

### BRASS

MODEL	HEIGHT X WIDTH	LENGTH	PRICE
G7683	.005" X 4"	10"	\$2.05
G7684	.010" X 4"	10"	\$2.05
G7685	.015" X 4"	10"	\$2.05
G7686	.032" X 4"	10"	\$5.20

### TIN

MODEL	HEIGHT X WIDTH	LENGTH	PRICE
G7688	.008" X 4"	10"	\$1.45

## SQUARE - ALUMINUM



MODEL	HEIGHT X WIDTH	LENGTH	PRICE
G7712	1/4" X 1/4"	36"	\$1.65
G7713	3/8" X 3/8"	36"	\$3.65
G7714	1/2" X 1/2"	36"	\$6.63

## ANGLE



### ALUMINUM

MODEL	THICKNESS X L & W	LENGTH	PRICE
G7725	1/16" X 1"	36"	\$3.18
G7726	1/16" X 1 1/2"	36"	\$4.73
G7727	1/16" X 2"	36"	\$6.38
G7728	1/8" X 3/4"	36"	\$4.55
G7729	1/8" X 1"	36"	\$6.20
G7730	1/8" X 1 1/2"	36"	\$9.50

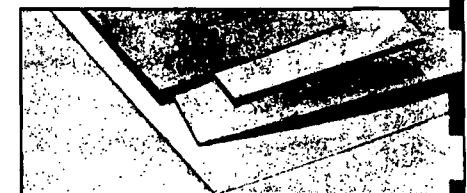
### BRASS

MODEL	THICKNESS X L & W	LENGTH	PRICE
G7650	1/64" X 1/8"	12"	\$0.40
G7651	1/64" X 5/32"	12"	\$0.45
G7652	1/64" X 3/16"	12"	\$1.13
G7653	1/64" X 7/32"	12"	\$1.18
G7654	1/64" X 1/4"	12"	\$1.23

## TREAD PLATE - ALUMINUM



MODEL	HEIGHT X WIDTH	LENGTH	PRICE
G7707	.063" X 12"	24"	\$20.68



76-079569



BEAR POWER

FILING DATE  
June 28, 2000

ORIGINAL APPLICANT  
GRIZZLY INDUSTRIAL, INC.

GOODS/SERVICES (CLASS 035)  
retail sale of material handling and sto (ETC)

FILING BASIS  
ITU

ORIGINAL CORRESPONDENT  
MICHAEL R. SCHACHT

BEAR POWER

PRINCIPAL

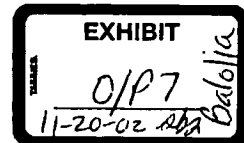
LAW OFFICE 104

76-079569

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ATTORNEY ADVISOR: Daniel S. Brady

PUBLISHED  
04/24/01



Approved for Publication (Principal Register) (Signature/Date)

*Daniel S. Brady* 1/8/01

Approved for Registration (Section 1(d)) (Signature/Date)

Approved for Registration (Supplemental Register) (Signature/Date)

NOP

NOA



Abandoned

(Date)

Trademark

76079569

TRADEMARK

76079569

NEW CASE DELIVERED

# PROSECUTION HISTORY

DEC 22 2000

Entry

Date

JAN - 3 2001

Initials

1. *Amal K*

2.

3.

NOP

4.

04/24/01

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6.

*Opp Brief 123, 136*

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76079569

TRADEMARK APPLICATION SERIAL NO. \_\_\_\_\_

U.S. DEPARTMENT OF COMMERCE  
PATENT AND TRADEMARK OFFICE  
FEE RECORD SHEET

07/06/2000 TSMITH 00000167 76079569

01 FC:361

325.00 0P

PTO-1555  
(5/87)

LAW OFFICES OF  
**HUGHES & SCHACHT, P.S.**  
A PROFESSIONAL SERVICE CORPORATION

ROBERT B. HUGHES  
MICHAEL R. SCHACHT  
MICHAEL F. HUGHES

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1-360-647-1296  
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PATENT, TRADEMARK  
& COPYRIGHT LAW

Direct Line: 1-360-733-1770  
mschacht@inventionlaw.com

June 28, 2000

BOX NEW APP FEE  
Assistant Commissioner For Trademarks  
2900 Crystal Drive  
Arlington, VA 22202-3513

Applicant:	GRIZZLY INDUSTRIAL, INC.
Mark:	BEAR POWER
International Class:	035
Express Mail Label No.:	EL466097819US
Date of Deposit:	June 28, 2000
Attorneys' Ref. No.:	T213108

Sir:

I enclose: (1) a 2-page intent-to-use trademark application signed by Shiraz Balolia on June 28, 2000, and a 1-page drawing, to register the above-identified mark for goods/services in International Class 035 under the Trademark Act of 1946; (2) our check for \$325 to cover the filing fee in one international class; (3) a certificate of mailing "Express Mail Post Office to Addressee" service under 37 CFR 1.10; and (4) a return receipt postcard.

Please file the application and send the filing receipt to Applicant's undersigned attorney.

Please charge any otherwise unprovided-for payments necessitated by the attachments to Deposit Account No. 08-3260 and credit any overpayments to that account.

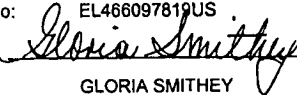
Respectfully submitted,

  
Michael R. Schacht, Reg. No. 33,550  
Hughes & Schacht, P.S.  
2801 Meridian Street, Suite 1  
Bellingham, WA 98225-2412  
(360) 733-1770

MRS:gs

EXPRESS MAIL CERTIFICATE OF MAILING

37 C.F.R. §1.10  
I hereby certify that this paper (along with any paper referred to as being attached or enclosed) is being deposited with the United States Postal Service, Express Mail Post Office to Addressee, in an envelope addressed to BOX NEW APP FEE, Assistant Commissioner for Trademarks, 2900 Crystal Drive, Arlington, Virginia 22202-3513, on the date shown below.

Express Mail No: EL466097819US  
Signature:   
Print Name: GLORIA SMITHEY  
Date Mailed: JUNE 28, 2000

IN THE UNITED STATES  
PATENT AND TRADEMARK OFFICE

APPLICATION FOR TRADEMARK REGISTRATION  
PRINCIPAL REGISTER

---

Mark: BEAR POWER

Class: 035

Attorneys' Matter No. T213108

BOX NEW APP FEE  
Assistant Commissioner For Trademarks  
2900 Crystal Drive  
Arlington, VA 22202-3513

Sir:

GRIZZLY INDUSTRIAL, INC., a corporation duly organized under the laws of the State of Washington, and having a principle place of business at 1821 Valencia Street, Bellingham, Washington 98226, requests that the above-identified mark be registered in the United States Patent and Trademark Office on the Principal Register established by the Act of July 5, 1946, for the following goods/services:

*related store services featuring*  
Retail sale of material handling and storage items, namely storage cabinets, file cabinets, portable workbenches, machine cabinet stands, heavy duty tool stands, assembly stools, welding benches, workbenches, workbench cabinet units, workstations, utility tables and carts, mobile tables and carts, hydraulic lift top tables, portable writing tables and carts, box carts, shop tray trucks, hopper tables, stock carts, shop trucks, ladder stock carts, shelf trucks, hand dump trucks, rollover dump trucks, rollover box trucks, box truck, shelf trucks, garment trucks, dolly platform trucks, portable bins and shelf carts, all-purpose hand trucks, drum and can handling equipment, mobile door cabinets, shelving and racks, in International Class 035.

The present application is being filed based on a bona fide intention to use the mark in commerce on or in connection with the goods listed in the application since the filing date of the application.

The mark described above will be used in commerce by applying it to the product, to labels attached to the product, and/or to packaging for the product.

I, Shiraz Balolia, declare that I am the President of the applicant corporation and am authorized to make this declaration; that I believe GRIZZLY INDUSTRIAL, INC. to be entitled to use the mark in interstate commerce; that to the best of my knowledge and belief no other person, firm, corporation, or association has the right to use said mark in commerce, either in the identical form or in such near resemblance thereto as may be likely, when applied to the goods of such other person, to cause confusion, or to cause mistake, or to deceive; that all statements made herein on my own knowledge are true; that all statements made on information and belief are believed to be true; and that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that willful false statements may jeopardize the validity of the application or any registration resulting therefrom.

The applicant hereby appoints Michael R. Schacht, Reg. No. 33,550, Robert B. Hughes, Reg. No. 19,304, and Michael F. Hughes, Reg. No. 41,084, members of the Bar of the State of Washington, with a mailing address of 2801 Meridian Street, Suite 1, Bellingham, WA 98225, as its attorneys to prosecute this application to registration, to receive correspondence from and transact all business in the Patent and Trademark Office in connection therewith, and to receive the Certificate of Registration.

Please direct all communications to:

Michael R. Schacht  
Hughes & Schacht, P.S.  
2801 Meridian Street, Suite 1  
Bellingham, Washington 98225-2412  
(360) 733-1770

GRIZZLY INDUSTRIAL, INC.

By

  
Shiraz Balolia  
President

Date



\*\*\*\*\*

06-28-2000

U.S. Patent & TMO/TM Mail Rpt Dt #39

Applicant: GRIZZLY INDUSTRIAL, INC.  
Address: 1821 Valencia Street  
Bellingham, Washington 98226  
International Class: 035  
Goods/Services: Retail sale of material handling and storage items, namely storage cabinets, file cabinets, portable workbenches, machine cabinet stands, heavy duty tool stands, assembly stools, welding benches, workbenches, workbench cabinet units, workstations, utility tables and carts, mobile tables and carts, hydraulic lift top tables, portable writing tables and carts, box carts, shop tray trucks, hopper tables, stock carts, shop trucks, ladder stock carts, shelf trucks, hand dump trucks, rollover dump trucks, rollover box trucks, box truck, shelf trucks, garment trucks, dolly platform trucks, portable bins and shelf carts, all-purpose hand trucks, drum and can handling equipment, mobile door cabinets, shelving and racks

BEAR POWER

TRADEMARK

76079569



PUBLISHED  
04/24/01

\*\*\* User: dbrody \*\*\*

#	Total Marks	Dead Marks	Live Viewed Docs	Live Viewed Images	Status/ Search Duration	Search
01	133118	N/A	0	0	0:03	*b\$2r*[bi,ti]
02	4565	N/A	0	0	0:01	*bear*[bi,ti]
03	18988	N/A	0	0	0:04	*p\$1w\$1r*[bi,ti]
04	495	197	298	298	0:01	1 and 3
05	886014	N/A	0	0	0:03	035[cc]
06	39121	N/A	0	0	0:02	1 and 5
07	848	N/A	0	0	0:01	2 and 5
08	199221	N/A	0	0	0:13	"035"[ic] or (a b 200)[ic]
09	8422	N/A	0	0	0:01	1 and 8
10	143	39	104	104	0:01	2 and 8
.1	705	291	414	414	0:01	7 not 10

Session started 12/26/00 10:26:09 AM  
Session finished 12/26/00 10:39:00 AM  
Total search duration 0:31 minutes  
Session Duration 12:51 minutes

Default NEAR limit= 1 ADJ limit= 1

\*\*\* User: dbrody \*\*\*

#	Total Marks	Dead Marks	Live Viewed Docs	Live Viewed Images	Status/ Search Duration	Search
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04	8014	N/A	0	0	0:02	1 and 3
05	2097	N/A	0	0	0:01	2 and 3
06	202014	N/A	0	0	0:04	"007"[ic] or "012"[ic] "020"[ic]
07	4565	N/A	0	0	0:01	*bear*[bi,ti]
08	333	152	181	181	0:01	7 and 3
09	18245	N/A	0	0	0:02	*power*[bi,ti]
10	2051	N/A	0	0	0:01	9 and 6
11	1203	0	1203	1203	0:06	10 not dead[ld]
12	199221	N/A	0	0	0:13	"035"[ic] or (a b 200)[ic]
13	1325	N/A	0	0	0:01	12 and 9
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Session started 12/26/00 5:27:54 PM  
Session finished 12/26/00 5:50:53 PM  
Total search duration 0:54 minutes  
Session Duration 22:59 minutes

Default NEAR limit= 1 ADJ limit= 1

# UNITED STATES PATENT AND TRADEMARK OFFICE

<b>SERIAL NO.</b> 76/079569 GRIZZLY INDUSTRIAL, INC.		<b>APPLICANT</b> MICHAEL R. SCHACHT HUGHES & SCHACHT, P.S. 2801 MERIDIAN STREET, SUITE 1 BELLINGHAM, WASHINGTON 98225-2412		<b>PAPER NO.</b> <div style="font-size: 2em; text-align: center;">1A</div>
<b>MARK</b> BEAR POWER		<b>ADDRESS:</b> Commissioner for Trademarks 2900 Crystal Drive Arlington, VA 22202-3513 www.uspto.gov		
<b>ADDRESS</b> MICHAEL R. SCHACHT HUGHES & SCHACHT, P.S. 2801 MERIDIAN STREET, SUITE 1 BELLINGHAM, WASHINGTON 98225-2412		<b>ACTION NO.</b> 01	If no fees are enclosed, the address should include the words "Box Responses - No Fee."  Please provide in all correspondence: 1. Filing Date, serial number, mark and Applicant's name. 2. Mailing date of this action. 3. Examining Attorney's name and Law Office number. 4. Your telephone number and ZIP code.	
		<b>MAILING DATE</b> 01/03/01		
		<b>REF. NO.</b> T213108		
FORM PTO-1525 (5-90)		U.S. DEPT. OF COMM. PAT. & TM OFFICE		

## EXAMINER'S AMENDMENT

EXAMINING ATTORNEY	PERSON CALLED/INTERVIEWED	TELEPHONE NUMBER
Daniel S. Brody	Michael R. Schacht	360-733-1770
X TELEPHONE CALL	INTERVIEW DATE	X ATTORNEY
PERSONAL INTERVIEW	December 27, 2000	APPLICANT

### CALL RECORD/NOTES

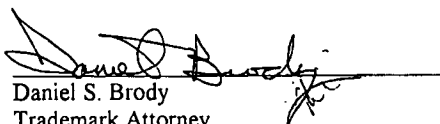
OFFICE SEARCH: The examining attorney has searched the Office records and has found no similar registered or pending mark which would bar registration under Trademark Act Section 2(d), 15 U.S.C. Section 1052(d). TMEP section 1105.01.

RE: Serial Number 76/079569

In accordance with the authorization granted by the above Applicant or attorney, the application has been AMENDED as indicated below. No response is necessary unless there is an objection to the amendment.

The identification of goods is amended to read as follows:

"retail store services, online retail store services, and mail order catalogue services featuring material handling and storage items, namely storage cabinets, file cabinets, portable workbenches, machine cabinet stands, heavy duty tool stands, assembly stools, welding benches, workbenches, workbench cabinet units, workstations, utility tables and carts, mobile tables and carts, hydraulic lift top tables, portable writing tables and carts, box carts, shop tray trucks, hopper tables, stock carts, shop trucks, ladder stock carts, shelf trucks, hand dump trucks, rollover dump trucks, rollover box trucks, box truck, shelf trucks, garment trucks, dolly platform trucks, portable bins and shelf carts, all-purpose hand trucks, drum and can handling equipment, mobile door cabinets, shelving and racks."

  
 Daniel S. Brody  
 Trademark Attorney  
 Law Office 104  
 (703) 308-9104 ext. 268



☒ AMENDMENT STAGE

☐ NO CHANGE

☐ PUBLICATION/REGISTRATION STAGE

Name: Paul Phan

L.O.

104

Date

JAN 5 2011

Serial No.

76/179569

INSTRUCTIONS: Place a check mark in the appropriate column and/or box to indicate which data elements have been amended/coded.

Legal Instrument Examiner (LIE)

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		<input type="checkbox"/> 1b	
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		<input type="checkbox"/> Lining/Stippling	<input type="checkbox"/> Name/Portrait/Consent
		<input type="checkbox"/> Translation	
Section 2(f)		<input type="checkbox"/> Section 2(f) Entire Mark	
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		<input type="checkbox"/> Amended Register	<input type="checkbox"/> Amended Register Date
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		<input type="checkbox"/> Assignment(s)/Name Change	
Amd/Corr Restr.		<input type="checkbox"/> Concurrent Use	
Prior U.S. Reg.		<input type="checkbox"/> Prior Registration	
Correspondence		<input type="checkbox"/> Attorney	<input type="checkbox"/> Domestic Representative
		<input type="checkbox"/> Attorney Docket Number	
		<input type="checkbox"/> Correspondence Firm Name/Address	

I certify that all corrections have been entered in accordance with text editing guidelines.

Paul Phan

LIE

JAN 5 2011

DATE

Other:

## TRADEMARK EXAMINATION WORKSHEET

**□ AMENDMENT STAGE**

☒ NO CHANGE

## ☒ PUBLICATION/REGISTRATION STAGE

Name: PAUL PHAN

L.O. 104

Date \_\_\_\_\_

Serial No.

76107456

**INSTRUCTIONS:** Place a check mark in the appropriate column and/or box to indicate which data elements have been amended/coded.

**Legal Instrument Examiner (LIE)**

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	<input type="checkbox"/>	1b
<b>Mark Data</b>	<input type="checkbox"/>	Word Mark <input type="checkbox"/> Pseudo Mark
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	<input type="checkbox"/>	Lining/Stippling <input type="checkbox"/> Name/Portrait/Consent
	<input type="checkbox"/>	Translation
<b>Section 2(f)</b>	<input type="checkbox"/>	Section 2(f) Entire Mark
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	<input type="checkbox"/>	Zip Code
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	<input type="checkbox"/>	Entity Statement <input type="checkbox"/> Composed of
	<input type="checkbox"/>	Assignment(s)/Name Change
<b>Amd/Corr Restr.</b>	<input type="checkbox"/>	Concurrent Use
<b>Prior U.S. Reg.</b>	<input type="checkbox"/>	Prior Registration
<b>Correspondence</b>	<input type="checkbox"/>	Attorney <input type="checkbox"/> Domestic Representative
	<input type="checkbox"/>	Attorney Docket Number
	<input type="checkbox"/>	Correspondence Firm Name/Address
I certify that all corrections have been entered in accordance with text editing guidelines. <div style="display: flex; justify-content: space-between; margin-top: 10px;"> <div>_____</div> <div>_____</div> </div> <div style="display: flex; justify-content: space-between; margin-top: 10px;"> <div>LIE</div> <div>DATE</div> </div> <div style="margin-top: 10px;">           Other: _____            _____            _____         </div>		



UNITED STATES DEPARTMENT OF COMMERCE  
Patent and Trademark Office  
ASSISTANT COMMISSIONER FOR TRADEMARKS  
2900 Crystal Drive  
Arlington, Virginia 22202-3513

Apr 11, 2001

NOTICE OF PUBLICATION UNDER 12(a)

- |                                      |   |
|--------------------------------------|---|
| 1. Serial No.:<br>76/079,569         | 2. Mark:<br>BEAR POWER                    |
| 3. International Class(es):<br>35    |   |
| 4. Publication Date:<br>Apr 24, 2001 | 5. Applicant:<br>GRIZZLY INDUSTRIAL, INC. |

The mark of the application identified appears to be entitled to registration. The mark will, in accordance with Section 12(a) of the Trademark Act of 1946, as amended, be published in the Official Gazette on the date indicated above for the purpose of opposition by any person who believes he will be damaged by the registration of the mark. If no opposition is filed within the time specified by Section 13(a) of the Statute or by rules 2.101 or 2.102 of the Trademark Rules, the Commissioner of Patents and Trademarks may issue a notice of allowance pursuant to section 13(b) of the Statute.

Copies of the trademark portion of the Official Gazette containing the publication of the mark may be obtained at \$38.00 each for domestic orders, or at \$47.50 each for foreign orders from:

The Superintendent of Documents  
U.S. Government Printing Office  
PO Box 371954  
Pittsburgh, PA 15250-7954  
Phone: (202)512-1800

By direction of the Commissioner.

· MICHAEL R. SCHACHT  
· HUGHES & SCHACHT PS  
· 2801 MERIDIAN ST STE 1  
· BELLINGHAM WA 98225-2400

TMP&I

PAPER No. 6

BRIEF OF INTER PARTES CASE

PROCEEDING No.: OPPOSITION No. 123,136

SERIAL No.: 76/079,569

FILED: 6/28/00

APPLICANT: GRIZZLY INDUSTRIAL, INC.

REGISTRATION No.:

DATED:

REGISTRANT:

ADVERSE PARTY: PUCEL ENTERPRISES, INC.

DECISION

SUPERVISORY EXAMINER:

DATED:

TRADEMARK TRIAL AND APPEAL BOARD:

DATED:

COURT:

DATED:

REMARKS



**Grizzly**  
Industrial, Inc.

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TOOLSPURVEYORS OF  
FINE MACHINERY

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DETAILED  
SPECIFICATIONSCUSTOMER  
SERVICEFREE GIFT  
SELECTION

YOUR ORDER

FREE CATALOG

SHOWROOMS

GRIZZLY  
OUTLET STORE -  
DISCONTINUED  
MERCHANDISEGIFT  
CERTIFICATESLEASE  
FINANCINGPRIVACY  
NOTICE

## PRODUCT SELECTION & ONLINE ORDERING

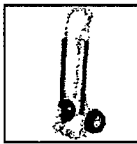


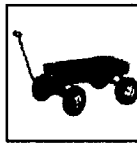



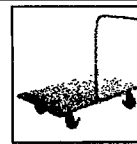
Material Handling &gt; Carts &amp; Dollies

Displaying items 11 to 20 of 36

Page 1 2 3 4

EXHIBIT

11-20-02 *Alm* *Calolia*  
O/P 14

<b>G8159</b> Hand Truck - 550 lb. Capacity		\$44.95	<a href="#">More Info</a> <a href="#">Buy Now</a>
<b>H0763</b> Hand Truck w/ Drop Down Extension		\$49.95	<a href="#">More Info</a> <a href="#">Buy Now</a>
<b>G7113</b> Two Shelf Cart (500 lb. Capacity)		\$49.95	<a href="#">More Info</a> <a href="#">Buy Now</a>
<b>G7111</b> Heavy-Duty Red Wagon		\$49.95	<a href="#">More Info</a> <a href="#">Buy Now</a>
<b>G7106</b> 3 Shelf Cart (330 lb. Capacity)		\$49.95	<a href="#">More Info</a> <a href="#">Buy Now</a>
<b>G8160</b> Hand Truck - 550 lb. Capacity		\$49.95	<a href="#">More Info</a> <a href="#">Buy Now</a>
<b>H0758</b> 3 Shelf Cart		\$59.95	<a href="#">More Info</a> <a href="#">Buy Now</a>
<b>G7114</b> Long Platform Truck (700 lb. Capacity)		\$59.95	<a href="#">More Info</a> <a href="#">Buy Now</a>


**Grizzly**  
 Industrial, Inc.

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 GRIZZLY  
OUTLET STORE -  
DISCONTINUED  
MERCHANDISE

 GIFT  
CERTIFICATES

 LEASE  
FINANCING


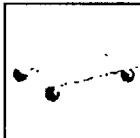
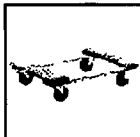
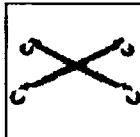


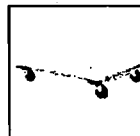

 PRIVACY  
NOTICE



## PRODUCT SELECTION & ONLINE ORDERING

[Material Handling](#) > Carts & Dollies

Displaying items 1 to 10 of 36

Page 1 2 3 4

<b>H2795</b> Wood Furniture Dollies - 17-1/2" x 17-1/2"		\$14.95	<a href="#">More Info</a> <a href="#">Buy Now</a>
<b>H2796</b> Wood Furniture Dollies - 17-1/2" x 23"		\$14.95	<a href="#">More Info</a> <a href="#">Buy Now</a>
<b>G7109</b> Furniture Dolly (900 lb. Capacity)		\$19.95	<a href="#">More Info</a> <a href="#">Buy Now</a>
<b>G8157</b> Drum Dolly		\$24.95	<a href="#">More Info</a> <a href="#">Buy Now</a>
<b>G8158</b> Hand Truck - 220 lb. Capacity		\$24.95	<a href="#">More Info</a> <a href="#">Buy Now</a>
<b>H0761</b> Round Drum Dolly		\$27.50	<a href="#">More Info</a> <a href="#">Buy Now</a>
<b>G7110</b> Furniture Platform Dolly (1000 lb. Capacity)		\$37.50	<a href="#">More Info</a> <a href="#">Buy Now</a>
<b>H0759</b> Red Shelf Cart - 2 Shelves		\$39.95	<a href="#">More Info</a> <a href="#">Buy Now</a>

<b>H0760</b> Red Shelf Cart - 3 Shelves		\$44.95	<a href="#">More Info</a> <a href="#">Buy Now</a>
<b>G7105</b> Heavy-Duty Platform Truck (600 lb. Capacity)		\$44.95	<a href="#">More Info</a> <a href="#">Buy Now</a>

Page [1](#) [2](#) [3](#) [4](#)

\* Final prices will include applicable taxes and shipping charges.

Find other items:	
Product Categories:	<input type="text" value="Abrasives &amp; Sanding"/> <a href="#">Select</a>
Product Search:	<input type="text"/> <a href="#">Search</a>

Please contact [csr@grizzly.com](mailto:csr@grizzly.com)  
with questions about any of the products or the ordering process.

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**Grizzly**  
Industrial, Inc.

**PURVEYORS OF  
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**FREE GIFT  
SELECTION**

**YOUR ORDER**

**FREE CATALOG**

**SHOWROOMS**

**GRIZZLY  
OUTLET STORE -  
DISCONTINUED  
MERCHANDISE**

**GIFT  
CERTIFICATES**

**LEASE  
FINANCING**


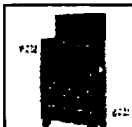
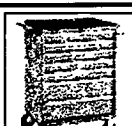

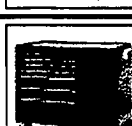
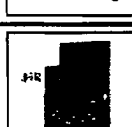
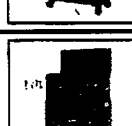
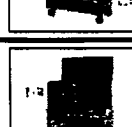
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## PRODUCT SELECTION & ONLINE ORDERING

Tool Boxes > Tool Boxes

Displaying items 21 to 29 of 29

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<b>G7172</b> 11 Drawer Cabinet		\$325.00	<a href="#">More Info</a> <a href="#">Buy Now</a>
<b>G7176</b> 9 Drawer Chest		\$325.00	<a href="#">More Info</a> <a href="#">Buy Now</a>
<b>H0842</b> Heavy-Duty 7 Drawer Roll- Wagon With Ball Bearing Slides Christmas Special		\$349.95	<a href="#">More Info</a> <a href="#">Buy Now</a>
<b>G7173</b> 8 Drawer Cabinet With Ball Bearing Slides		\$395.00	<a href="#">More Info</a> <a href="#">Buy Now</a>
<b>G7179</b> 7 Drawer Mobile Workstation		\$395.00	<a href="#">More Info</a> <a href="#">Buy Now</a>
<b>G7178</b> 9 Drawer Chest With Roller Bearings		\$425.00	<a href="#">More Info</a> <a href="#">Buy Now</a>
<b>G7175</b> 15 Drawer Mobile Workstation		\$525.00	<a href="#">More Info</a> <a href="#">Buy Now</a>
<b>G7177</b> 15 Drawer Mobile Workstation With Roller Bearings		\$695.00	<a href="#">More Info</a> <a href="#">Buy Now</a>

<b>H3888</b> 7 Drawer Mobile Workstation W/ Roller Bearing Slides		\$749.00	<a href="#">More Info</a> <a href="#">Buy Now</a>
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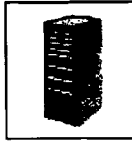





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## PRODUCT SELECTION & ONLINE ORDERING

[Tool Boxes](#) > Tool Boxes

Displaying items 11 to 20 of 29

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<b>G7165</b> 10 Drawer Chest		\$169.95	<a href="#">More Info</a> <a href="#">Buy Now</a>
<b>G7166</b> 12 Drawer Chest - Regular		\$179.95	<a href="#">More Info</a> <a href="#">Buy Now</a>
<b>G7169</b> 8 Drawer Side Cabinet (for G7172)		\$179.95	<a href="#">More Info</a> <a href="#">Buy Now</a>
<b>G7167</b> 12 Drawer Chest - Deep		\$199.95	<a href="#">More Info</a> <a href="#">Buy Now</a>
<b>G7171</b> 5 Drawer Cabinet		\$225.00	<a href="#">More Info</a> <a href="#">Buy Now</a>
<b>G7180</b> 5 Drawer Road Chest		\$249.95	<a href="#">More Info</a> <a href="#">Buy Now</a>
<b>G7174</b> 10 Drawer Chest With Ball Bearing Slides		\$275.00	<a href="#">More Info</a> <a href="#">Buy Now</a>
<b>H3887</b> Utility Cart		\$279.95	<a href="#">More Info</a> <a href="#">Buy Now</a>

<b>H0840</b> Heavy-Duty 5 Drawer Roll- Wagon With Ball Bearing Slides Christmas Special		\$279.95	<a href="#">More Info</a> <a href="#">Buy Now</a>
<b>H0841</b> Heavy-Duty 5 Drawer Roll- Wagon With Ball Bearing Slides (With Bulk Storage Compartment)  Christmas Special		\$299.95	<a href="#">More Info</a> <a href="#">Buy Now</a>

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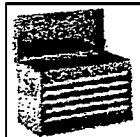
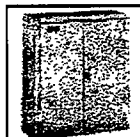
## PRODUCT SELECTION & ONLINE ORDERING

[Tool Boxes](#) > Tool Boxes

Displaying items 1 to 10 of 29

Page 1 2 3

<b>H0844</b> 3 Drawer Portable Tool Chest		\$39.95	<a href="#">More Info</a> <a href="#">Buy Now</a>
<b>G7170</b> 3 Drawer Portable Chest		\$55.00	<a href="#">More Info</a> <a href="#">Buy Now</a>
<b>G7162</b> 3 Drawer Middle Chest - Regular		\$89.95	<a href="#">More Info</a> <a href="#">Buy Now</a>
<b>H0837</b> 3 Drawer Middle Chest With Ball Bearing Slides		\$89.95	<a href="#">More Info</a> <a href="#">Buy Now</a>
<b>G7163</b> 3 Drawer Middle Chest - Deep		\$109.95	<a href="#">More Info</a> <a href="#">Buy Now</a>
<b>G7164</b> 6 Drawer Chest		\$129.95	<a href="#">More Info</a> <a href="#">Buy Now</a>
<b>H0838</b> Heavy-Duty 6 Drawer Top Chest With Ball Bearing Slides		\$129.95	<a href="#">More Info</a> <a href="#">Buy Now</a>
<b>G7168</b> 11 Drawer Machinist's Chest		\$139.95	<a href="#">More Info</a> <a href="#">Buy Now</a>

<b>H0839</b> Heavy-Duty 9 Drawer Top Chest With Ball Bearing Slides		\$159.95	<a href="#">More Info</a> <a href="#">Buy Now</a>
<b>H0843</b> Heavy-Duty Lockable Tool Cabinet		\$159.95	<a href="#">More Info</a> <a href="#">Buy Now</a>

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Page 1 2

<b>G9920</b> Solid Maple Workbench Top 120" Wide x 36" Deep x 1-3/4" Thick		\$475.00	<a href="#">More Info</a> <a href="#">Buy Now</a>
<b>H2612</b> Shop Fox® Super Heavy-Duty Workbench Leg System		\$149.95	<a href="#">More Info</a> <a href="#">Buy Now</a>

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Solid Maple Workbench Top 60" Wide x 36" Deep x 1-3/4" Thick	\$179.95	<a href="#">More Info</a> <a href="#">Buy Now</a>
<b>G9919</b> Solid Maple Workbench Top 72" Wide x 36" Deep x 1-3/4" Thick	\$215.00	<a href="#">More Info</a> <a href="#">Buy Now</a>



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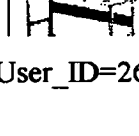
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Page 1 2

<b>G8020</b> The Acorn Workbench - Plans		\$19.95	<a href="#">More Info</a> <a href="#">Buy Now</a>
<b>G8586</b> Portable Clamping Workbench		\$29.95	<a href="#">More Info</a> <a href="#">Buy Now</a>
<b>G9912</b> Solid Maple Workbench Top 36" Wide x 24" Deep x 1-3/4" Thick		\$79.95	<a href="#">More Info</a> <a href="#">Buy Now</a>
<b>G9913</b> Solid Maple Workbench Top 48" Wide x 30" Deep x 1-3/4" Thick		\$122.95	<a href="#">More Info</a> <a href="#">Buy Now</a>
<b>G9914</b> Solid Maple Workbench Top 60" Wide x 30" Deep x 1-3/4" Thick		\$149.95	<a href="#">More Info</a> <a href="#">Buy Now</a>
<b>G9915</b> Solid Maple Workbench Top 72" Wide x 30" Deep x 1-3/4" Thick		\$179.95	<a href="#">More Info</a> <a href="#">Buy Now</a>
<b>G9916</b> Solid Maple Workbench Top 96" Wide x 30" Deep x 1-3/4" Thick		\$235.00	<a href="#">More Info</a> <a href="#">Buy Now</a>
<b>G9917</b> Solid Maple Workbench Top 120" Wide x 30" Deep x 1-3/4" Thick		\$345.00	<a href="#">More Info</a> <a href="#">Buy Now</a>
<b>G9918</b>			


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[Material Handling](#) > Miscellaneous Material Handling

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<b>H0765</b> Parts Lazy Susan - Table Top		\$39.95	<a href="#">More Info</a> <a href="#">Buy Now</a>
<b>H0766</b> Parts Lazy Susan - Floor Model		\$49.95	<a href="#">More Info</a> <a href="#">Buy Now</a>

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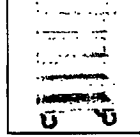


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## PRODUCT SELECTION & ONLINE ORDERING

[Material Handling](#) > Carts & Dollies

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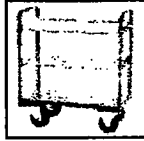
<b>G8152</b> Platform Truck - Long		\$99.95	<a href="#">More Info</a> <a href="#">Buy Now</a>
<b>H0771</b> Folding Side Garden Wagon		\$99.95	<a href="#">More Info</a> <a href="#">Buy Now</a>
<b>G8153</b> Platform Truck With Double Ends		\$109.95	<a href="#">More Info</a> <a href="#">Buy Now</a>
<b>H0770</b> Shelf Carts - 5-Shelf		\$119.95	<a href="#">More Info</a> <a href="#">Buy Now</a>
<b>G8155</b> Nursery Double Cart		\$119.95	<a href="#">More Info</a> <a href="#">Buy Now</a>
<b>G4025</b> Pallet Jack - 2 Ton Capacity		\$239.95	<a href="#">More Info</a> <a href="#">Buy Now</a>

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<b>G8156</b> Platform Truck - 2000 lb. Capacity		\$89.95	<a href="#">More Info</a> <a href="#">Buy Now</a>
<b>H0772</b> Shelf Carts - 3-Shelf		\$89.95	<a href="#">More Info</a> <a href="#">Buy Now</a>

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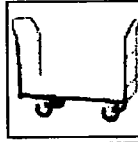
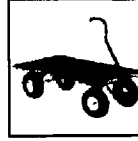
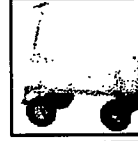

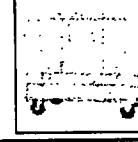
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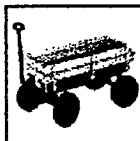

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[Material Handling](#) > Carts & Dollies

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<b>H0764</b> General Purpose Hand Truck		\$59.95	<a href="#">More Info</a> <a href="#">Buy Now</a>
<b>H0774</b> Freezer Cart - 770 lb. Capacity		\$64.95	<a href="#">More Info</a> <a href="#">Buy Now</a>
<b>H0762</b> Appliance Hand Truck		\$69.95	<a href="#">More Info</a> <a href="#">Buy Now</a>
<b>H0773</b> Box Cart With Wood Sides		\$69.95	<a href="#">More Info</a> <a href="#">Buy Now</a>
<b>G8154</b> Nursery Platform Truck		\$79.95	<a href="#">More Info</a> <a href="#">Buy Now</a>
<b>H0767</b> Tapered Wood-Sided Wagon		\$79.95	<a href="#">More Info</a> <a href="#">Buy Now</a>
<b>G8151</b> Platform Truck - 1100 lb. Capacity		\$89.95	<a href="#">More Info</a> <a href="#">Buy Now</a>
<b>H0768</b> Material Cart		\$89.95	<a href="#">More Info</a> <a href="#">Buy Now</a>

<b>G7112</b> Heavy-Duty Wagon w/Wood Sides Christmas Special!		<del>\$59.95</del> \$49.95	<a href="#">More Info</a> <a href="#">Buy Now</a>
<b>G7107</b> 3 Shelf Cart (550 lb. Capacity)		\$59.95	<a href="#">More Info</a> <a href="#">Buy Now</a>

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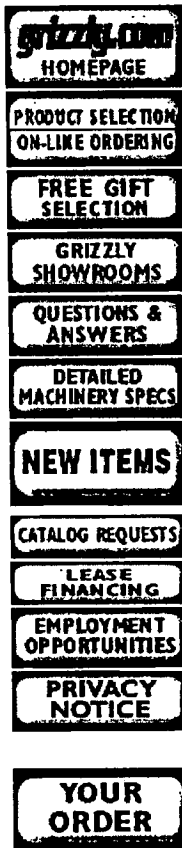
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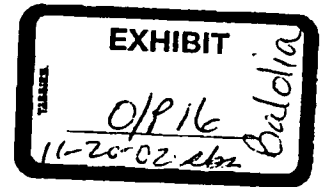
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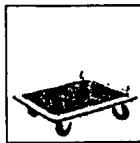

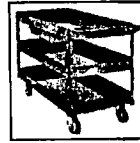
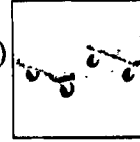




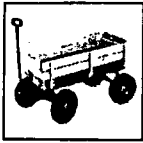

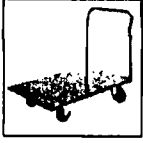
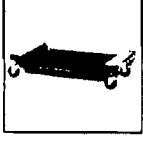


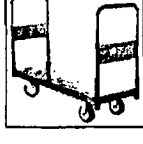
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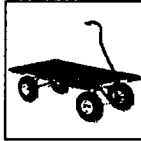



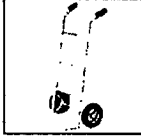
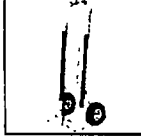
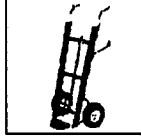

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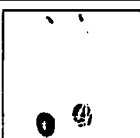

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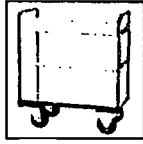



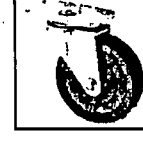
Item		Price	Options
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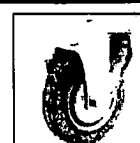
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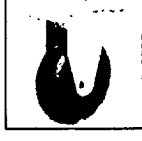



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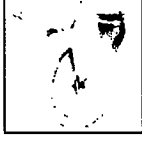
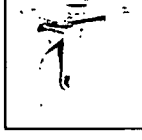
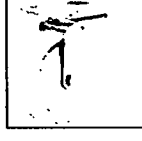
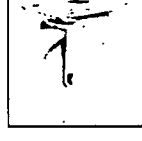
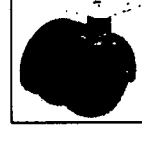
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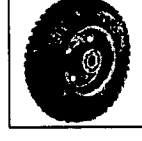
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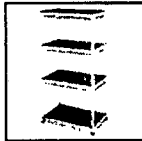
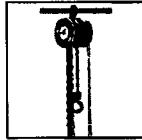
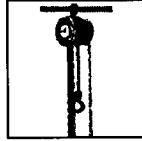
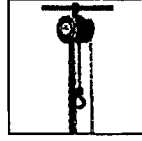
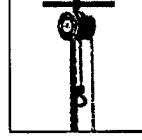
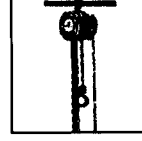
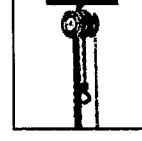
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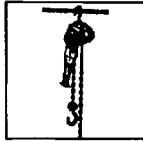

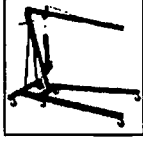









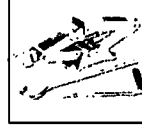
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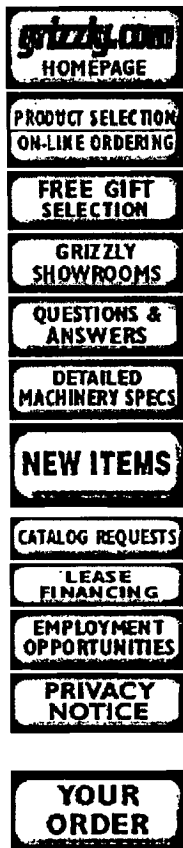
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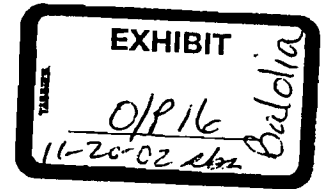
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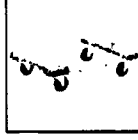
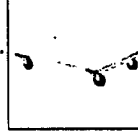





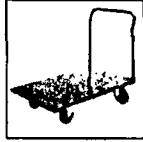
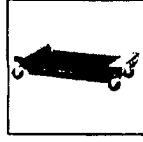

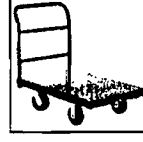
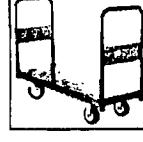
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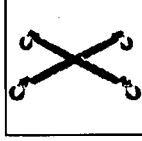

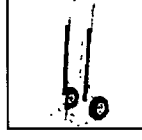
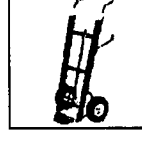







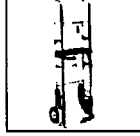
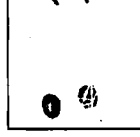

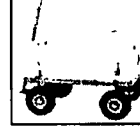
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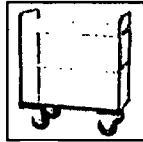
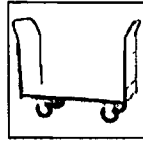



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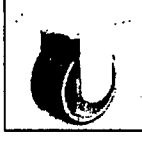
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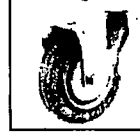

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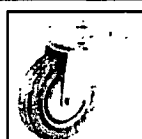



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<b>H0648</b> Black Rubber Threaded, Locking Caster - 6-1/4" Swivel		\$9.95	<a href="#">More Info</a> <a href="#">Buy Now</a>
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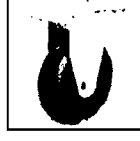

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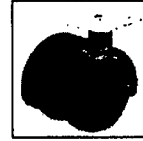
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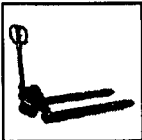
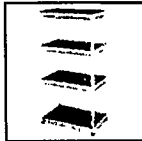
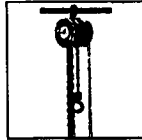
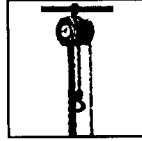
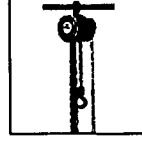
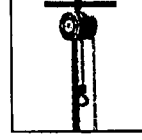
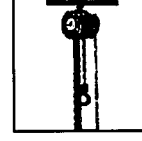
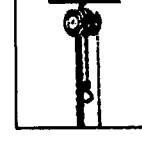
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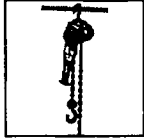
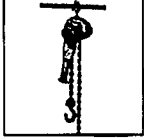





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<b>G8734</b> Step Bumper Hitch Receiver		\$19.95	<a href="#">More Info</a> <a href="#">Buy Now</a>
<b>G8752</b> Mechanic's Padded Seat - Christmas Special		\$17.95	<a href="#">More Info</a> <a href="#">Buy Now</a>
<b>G8753</b> 10 Ton Hydraulic Floor Jack		\$389.95	<a href="#">More Info</a> <a href="#">Buy Now</a>
<b>G8996</b> Tie-Down Straps - 1-pc. 15'		\$4.95	<a href="#">More Info</a> <a href="#">Buy Now</a>
<b>G8997</b> Tie-Down Straps - 2-pc. 15'		\$8.95	<a href="#">More Info</a> <a href="#">Buy Now</a>
<b>G8998</b> Tie-Down Straps - 4-pc. 15'		\$14.95	<a href="#">More Info</a> <a href="#">Buy Now</a>
<b>G8999</b> Tie-Down Straps - 1-pc. 20'		\$9.95	<a href="#">More Info</a> <a href="#">Buy Now</a>

<b>H0778</b> Electric Hoist - 3/4 H.P. 110V		\$89.95	<a href="#">More Info</a> <a href="#">Buy Now</a>
<b>H0779</b> Electric Hoist - 1-1/4 H.P. 110V		\$139.95	<a href="#">More Info</a> <a href="#">Buy Now</a>
<b>G7314</b> Heavy-Duty Shop Fox® Mobile Base - Christmas Special		\$64.95	<a href="#">More Info</a> <a href="#">Buy Now</a>
<b>G7315</b> Super Heavy-Duty Shop Fox® Mobile Base - Christmas Special		\$89.95	<a href="#">More Info</a> <a href="#">Buy Now</a>
<b>G8683</b> Mini Shop Fox® Mobile Base - Christmas Special		\$55.95	<a href="#">More Info</a> <a href="#">Buy Now</a>
<b>G8684</b> Extension Kit For Shop Fox® Mobile Bases - Christmas Special		\$49.95	<a href="#">More Info</a> <a href="#">Buy Now</a>
<b>G8685</b> Extension Bars For Super Heavy-Duty Shop Fox® Mobile Bases		\$29.95	<a href="#">More Info</a> <a href="#">Buy Now</a>
<b>G7121</b> Shop Fox® Roller Stand		\$18.95	<a href="#">More Info</a> <a href="#">Buy Now</a>

<b>G8982</b> Shop Fox® Roller Table		\$129.95	<a href="#">More Info</a> <a href="#">Buy Now</a>
<b>G8983</b> Shop Fox® Tilting Roller Stand		\$39.95	<a href="#">More Info</a> <a href="#">Buy Now</a>
<b>G8984</b> Shop Fox® Single Roller Stand		\$39.95	<a href="#">More Info</a> <a href="#">Buy Now</a>
<b>G8985</b> Shop Fox® 5 Roller Stand		\$59.95	<a href="#">More Info</a> <a href="#">Buy Now</a>
<b>G8986</b> Shop Fox® Tool Stand		\$39.95	<a href="#">More Info</a> <a href="#">Buy Now</a>
<b>G3067</b> 11-Ball Roller Set		\$13.95	<a href="#">More Info</a> <a href="#">Buy Now</a>
<b>G1197</b> Stand for G1021 15" Planer		\$59.95	<a href="#">More Info</a> <a href="#">Buy Now</a>
<b>G7313</b> Shop Fox® Tool Table - Christmas Special		\$35.00	<a href="#">More Info</a> <a href="#">Buy Now</a>

**\* Final prices will include applicable taxes and shipping charges.**

<b>Find other items:</b>	
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Please contact [csr@grizzly.com](mailto:csr@grizzly.com)  
with questions about any of the products or the ordering process.

---

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Int. Cl.: 7

Prior U.S. Cls.: 13, 19, 21, 23, 31, 34, and 35

Reg. No. 2,312,226

United States Patent and Trademark Office

Registered Jan. 25, 2000

TRADEMARK  
PRINCIPAL REGISTER

GRIZZLY INDUSTRIAL

GRIZZLY INDUSTRIAL, INC. (WASHINGTON  
CORPORATION)  
1821 VALENCIA STREET  
BELLINGHAM, WA 98226

FOR: WOODWORKING AND METAL  
WORKING MACHINERY, NAMELY, TABLE  
SAWS; JOINTERS; SHAPERS; PLANERS;  
POWER FEEDERS; MOLDERS; SANDERS;  
SCROLL SAWS; BANDSAWS; DUST COLLEC-  
TION SYSTEMS COMPRISED OF DUST COL-  
LECTORS, WOODWORKING LATHES; MET-  
ALWORKING LATHES; DRILL PRESSES;  
GRINDERS; BUFFERS; ELECTRIC MOTORS;  
MILLING MACHINES; POWER HACKSAWS;  
ARBOR PRESSES; SHEET METAL MACHINES;

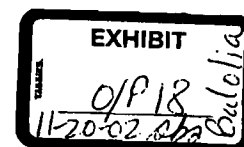
PNEUMATIC AIR TOOLS, NAMELY, IMPACT  
WRENCHES, RATCHET WRENCHES, GRIND-  
ERS, DRILLS, SANDERS, AIR BRUSHES, STA-  
PLERS, AND NAILERS; PARTS WASHERS;  
CUT-OFF SAWS; AND PARTS THEREFOR, IN  
CLASS 7 (U.S. CLS. 13, 19, 21, 23, 31, 34 AND 35).

FIRST USE 12-31-1983; IN COMMERCE  
12-31-1983.

NO CLAIM IS MADE TO THE EXCLUSIVE  
RIGHT TO USE "INDUSTRIAL", APART FROM  
THE MARK AS SHOWN.

SN 75-303,371, FILED 6-4-1997.

JANICE L. MCMORROW, EXAMINING AT-  
TORNEY



GRIZC-00035

REG NUM: 2312226  
REG DT: 01/25/2000  
S/N 75/303371

75-303371



TYPED DRAWING

GRIZZLY INDUSTRIAL

ITU

LAW OFFICE 104

PRINCIPAL

*Colleen Keegan*  
Colleen Keegan

ATTORNEY ADVISOR:

*Karen McGee*  
Karen McGee

GRIZC-00036

PUBLISHED  
2/23/99

Examining Attorney - (Please Print Name) Colleen Keegan <del>Karen McGee</del>	Date Publ.
Approved for Publication (Principal Register) - (Signature) <i>Karen McGee</i> 11/17/98	Section 8 Accepted - (Signature)
Approved for Registration (Section 1(d)) - (Signature) <i>Karen McGee</i> 11/10/99	Section 15 - (Signature)
Approved for Registration (Supplemental Register) - (Signature)	Section 9 Renewal Accepted - (Signature)

75303371

NEW CASE DELIVERED

FEB 12 1998

LAW OFFICE 104

TRADEMARK

## CONTENTS

NEW CASE DELIVERED

FEB 10 1998 Entry

Date

Initials

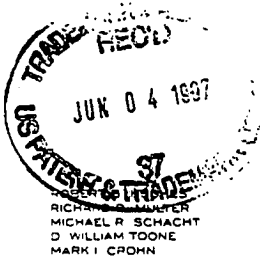
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TRADEMARK APPLICATION SERIAL NO. 75303371

U.S. DEPARTMENT OF COMMERCE  
PATENT AND TRADEMARK OFFICE  
FEE RECORD SHEET

06/18/1997 DRICH1 00000125 75303371  
01 FC:361 245.00 DP

GRIZC-00038



LAW OFFICES OF  
**HUGHES, MULTER & SCHACHT, P.S.**

A PROFESSIONAL SERVICE CORPORATION

1720 IOWA STREET  
BELLINGHAM, WA 98226-4702  
(360) 647-2996 (BHM)  
(360) 380-1784 (COUNTY)  
(888) 647-1296 (TOLL FREE)  
FAX (360) 671-2489

47 N.E. 29TH PLACE  
SUITE 245  
BELLINGHAM, WA 98207-7656  
(360) 453-5701  
FAX (360) 88-5878

PATENT, TRADEMARK,  
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& LITIGATION

REPLY TO  
BELLINGHAM  
OFFICE

June 4, 1997

**TRADEMARK**

BOX NEW APP. FEE  
Assistant Commissioner For Trademarks  
2900 Crystal Drive  
Arlington, VA 22202-3513

Applicant: GRIZZLY IMPORTS, INC.  
Mark: GRIZZLY INDUSTRIAL  
Int. Class: 7  
Express Mail Label EI153651955US  
Date of Deposit: JUNE 4, 1997  
Attorneys' Docket No.: (T4393)

DN

Sir:

I enclose: (1) a 2-page intent-to-use trademark application signed by Shiraz Balolia on June 2, 1997, and a drawing, to register the above-identified mark for goods/services in International Class 7 under the Trademark Act of 1946; (2) our check for \$245 to cover the filing fee in one international class; a request for "Express Mail Post Office to Addressee" service under 37 CFR 1.10; and (3) a return receipt postcard.

Please file the application and send the filing receipt to Applicant's undersigned attorney.

Please charge any otherwise unprovided-for payments necessitated by the attachments to Deposit Account No. 08-3260 and credit any overpayments to that account.

Respectfully submitted,

*Michael R. Schacht*

Michael R. Schacht, Reg. No. 33,550  
Hughes, Multer & Schacht, P.S.  
1720 Iowa Street  
Bellingham, WA 98226  
(360) 647-1296

MRS:gs

Enclosures

GRIZC-00039



LAW OFFICES OF  
**HUGHES, MULTER & SCHACHT, P.S.**  
A PROFESSIONAL SERVICE CORPORATION

1720 IOWA STREET  
BELLINGHAM WA 98226-4702  
(360) 647-1296 (BHM)  
(360) 380-1784 (COUNTY)  
(888-647-1296 (TOLL FREE)  
FAX (360) 671-2489

147 N.E. 29th PLACE  
SUITE 245  
BELLEVUE WA 98007-7868  
206-453-5701  
FAX 206-453-5878

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REPLY TO  
BELLINGHAM  
OFFICE

June 4, 1997

**TRADEMARK**

BOX NEW APP. FEE  
Assistant Commissioner For Trademarks  
2900 Crystal Drive  
Arlington, VA 22202-3513

Sir:

Transmitted herewith for filing is the intent-to-use trademark application in re:

Applicant: GRIZZLY IMPORTS, INC.

Mark: GRIZZLY INDUSTRIAL

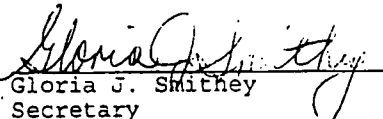
Int. Class: 7

Express Mail Label EI153651955US

Date of Deposit: JUNE 4, 1997

Attorneys' Docket No.: T4393

I hereby certify that the 2-page intent-to-use application signed by Shiraz Balolia, one-page drawing, a transmittal letter, a check in the amount of \$245, and a return receipt postcard are being deposited with the United States Postal Service "Express Mail Post Office to Addressee" service under 37 CFR 1.10 on the date indicated above and is addressed to BOX NEW APP FEE, Assistant Commissioner for Trademarks, 2900 Crystal Drive, Arlington, VA 22202-3513.

  
Gloria J. Smiley  
Secretary

PLEASE GIVE THIS APPLICATION THE FILING DATE OF JUNE 4, 1997.

GRIZC-00040



IN THE UNITED STATES  
PATENT AND TRADEMARK OFFICE

APPLICATION FOR TRADEMARK REGISTRATION  
PRINCIPAL REGISTER

Mark: GRIZZLY INDUSTRIAL


Class: 7

Attorneys' Docket No. T4393

BOX NEW APP. FEE  
Assistant Commissioner For Trademarks  
2900 Crystal Drive  
Arlington, VA 22202-3513


Sir:

AN ✓ / GRIZZLY IMPORTS, INC. <sup>OB</sup> a (corporation) duly organized under the laws of the State of <sup>WA</sup> Washington and having a principle place of business at 1821 Valencia Street, <sup>W/2</sup> Bellingham, Washington 98226, requests that the above-identified mark be registered in the United States Patent and Trademark Office on the Principal Register established by the Act of July 5, 1946, for the following goods/services:

 ~~Woodworking and metalworking machinery, including table saws, jointers, shapers, planers, power feeders, molders, sanders, scroll saws, bandsaws, dust collection systems, woodworking lathes, metalworking lathes, drill presses, grinders, buffers, electric motors, milling machines, power hacksaws, arbor presses, sheet metal machines, pneumatic air tools, parts washers, cut-off saws, rotary tables, dividing heads, and parts and accessories therefor~~

The present application is being filed based on a bona fide intention to use the mark in commerce.

The mark described above will be used by applying it to the product, to labels attached to the product, and/or to packaging for the product

 I, SHIRAZ BALOLIA, declare that I am the President of the applicant corporation and am authorized to make this declaration; that I believe GRIZZLY IMPORTS, INC. to be entitled to use the mark in interstate commerce; that to the best of my knowledge and belief no other person, firm, corporation, or association has the right to use said

mark in commerce, either in the identical form or in such near resemblance thereto as may be likely, when applied to the goods of such other person, to cause confusion, or to cause mistake, or to deceive; that all statements made herein on my own knowledge are true; that all statements made on information and belief are believed to be true; and that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that willful false statements may jeopardize the validity of the application or any registration resulting therefrom.

Applicant hereby appoints Michael R. Schacht, Reg. No. 33,550, Robert B. Hughes, Reg. No. 19,304, Richard D. Multer, Reg. No. 20,661, and Mark I. Crohn, Reg. No. P40573, members of the Bar of the State of Washington, with a mailing address of 1720 Iowa Street, Bellingham, WA 98226, as his attorneys to prosecute this application to registration, to receive correspondence from and transact all business in the Patent and Trademark Office in connection therewith, and to receive the Certificate of Registration.


Please direct all communications to:

AT  
(A)

(Michael R. Schacht)  
(Hughes, Multer & Schacht, P S  
1720 Iowa Street  
Bellingham, WA 98226 )  
(360) 647-1296

GRIZZLY IMPORTS, INC.

By

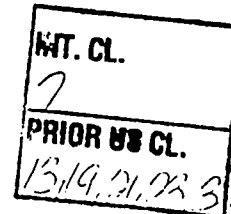
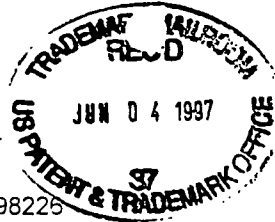
  
SHIRAZ BALOLIA  
President

6/3/97  
Date



Applicant: GRIZZLY IMPORTS, INC.  
Address: 1821 Valencia Street  
Bellingham, Washington 98225  
International Class: 7  
Goods/Services

woodworking and metalworking machinery, including table saws, jointers, shapers, planers, power feeders, molders, sanders, scroll saws, bandsaws, dust collection systems, woodworking lathes, metalworking lathes, drill presses, grinders, buffers, electric motors, milling machines, power hacksaws, arbor presses, sheet metal machines, pneumatic air tools, parts washers, cut-off saws, rotary tables, dividing heads, and parts and accessories therefor



30, 35

GRIZZLY INDUSTRIAL

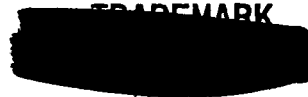
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2/23/99

GRIZC-00043



TRADEMARK



SERIAL NO. <span style="margin-left: 150px;">APPLICANT</span>		PAPER NO.	
		ADDRESS: Assistant Commissioner for Trademarks 2900 Crystal Drive Arlington, VA 22202-3513	
MARK		If no fees are enclosed, the address should include the word "Box Responses - No Fee"	
ADDRESS	ACTION NO.		
	MAILING DATE		
	REF. NO.		
FORM PTO-1525 (5-90) <span style="margin-left: 100px;">U.S. DEPT. OF COMM. PAT. &amp; TM OFFICE</span>		Please provide in all correspondence:  1. Filing Date, serial number, mark and Applicant's name. 2. Mailing date of this Office action. 3. Examining Attorney's name and Law Office number. 4. Your telephone number and ZIP code.	

**A PROPER RESPONSE TO THIS OFFICE ACTION MUST BE RECEIVED WITHIN 6 MONTHS FROM THE DATE OF THIS ACTION IN ORDER TO AVOID ABANDONMENT.** *For your convenience and to ensure proper handling of your response, a label has been enclosed. Please attach it to the upper right corner of your response. If the label is not enclosed, print or type the Trademark Law Office No., Serial No., and Mark in the upper right corner of your response.*

RE: Serial Number: 75/303371

## 2(d) Refusal

The examining attorney refuses registration under Trademark Act Section 2(d), 15 U.S.C. Section 1052(d), because the Applicant's mark, GRIZZLY INDUSTRIAL, when used on or in connection with the identified goods, so resembles the marks GRIZZLY BEAR and GRIZZLY and design, in U.S. Registration Nos. 1,441,043 and 1,456,173 as to be likely to cause confusion, or to cause mistake, or to deceive. TMEP section 1207. See the enclosed registrations.

Section 2(d) of the Trademark Act bars registration where a mark so resembles a registered mark, that it is likely, when applied to the goods, to cause confusion, or to cause mistake or to deceive. TMEP section 1207.01. The Court in *In re E. I. DuPont de Nemours & Co.*, 476 F.2d 1357, 177 USPQ 563 (CCPA 1973), listed the principal factors to consider in determining whether there is a likelihood of confusion. Among these factors are the similarity of the marks as to appearance, sound, meaning and commercial impression and the similarity of the goods. The overriding concern is to prevent buyer confusion as to the source of the goods. *Miss Universe, Inc. v. Miss Teen U.S.A., Inc.*, 209 USPQ 698 (N.D. Ga. 1980). Therefore, any doubt as to the existence of a likelihood of confusion must be resolved in favor of the registrant. *Lone Star Mfg. Co. v. Bill Beasley, Inc.*, 498 F.2d 906, 182 USPQ 368 (CCPA 1974).

GRIZC-00044

The examining attorney must compare the marks for similarities in sound, appearance, meaning or connotation. *In re E. I. DuPont de Nemours & Co.*, 476 F.2d 1357, 177 USPQ 563 (CCPA 1973). Similarity in any one of these elements is sufficient to find a likelihood of confusion. *In re Mack*, 197 USPQ 755 (TTAB 1977). When the applicant's mark is compared to a registered mark, "the points of similarity are of greater importance than the points of difference." *Esso Standard Oil Co. v. Sun Oil Co.*, 229 F.2d 37, 108 USPQ 161 (D.C. Cir.), cert. denied, 351 U.S. 973, 109 USPQ 517 (1956).

The examining attorney must look at the marks in their entireties under Section 2(d). Nevertheless, one feature of a mark may be recognized as more significant in creating a commercial impression. Greater weight is given to that dominant feature in determining whether there is likelihood of confusion. *In re National Data Corp.*, 224 USPQ 749 (Fed. Cir. 1985); *Tektronix, Inc. v. Daktronics, Inc.*, 534 F.2d 915, 189 USPQ 693 (CCPA 1976); *In re J.M. Originals Inc.*, 6 USPQ2d 1393 (TTAB 1988).

The dominant portion of the respective marks, "GRIZZLY," is identical and creates the same commercial impression. As the dominant and thus more significant portion, "GRIZZLY" will more likely be impressed upon the purchaser's memory in calling for the goods. The purchaser would likely believe that the "GRIZZLY" products derive from a common commercial source.

Moreover, the mere addition of a term to a registered mark is not sufficient to overcome a likelihood of confusion under Section 2(d). *Coca-Cola Bottling Co. v. Joseph E. Seagram & Sons, Inc.*, 526 F.2d 556, 188 USPQ 105 (CCPA 1975) ("BENGAL" and "BENGAL LANCER"); *Lilly Pulitzer, Inc. v. Lilli Ann Corp.*, 376 F.2d 324, 153 USPQ 406 (CCPA 1967) ("THE LILLY" and "LILLI ANN"); *In re El Torito Restaurants Inc.*, 9 USPQ2d 2002 (TTAB 1988) ("MACHO" and "MACHO COMBOS"); *In re United States Shoe Corp.*, 229 USPQ 707 (TTAB 1985) ("CAREER IMAGE" and "CREST CAREER IMAGES"); *In re Corning Glass Works*, 229 USPQ 65 (TTAB 1985) ("CONFIRM" and "CONFIRMCELLS"); *In re Riddle*, 225 USPQ 630 (TTAB 1985) ("ACCUTUNE" and "RICHARD PETTY'S ACCU TUNE"); *In re Cosvetic Laboratories, Inc.*, 202 USPQ 842 (TTAB 1979) ("HEAD START" and "HEAD START COSVETIC"). Therefore, the Applicant's addition of the descriptive term "INDUSTRIAL" to the Registrants' marks "GRIZZLY" does not serve to distinguish their mark from the Registrant's mark.

The goods of the parties need not be identical or directly competitive to find a likelihood of confusion. They need only be related in some manner, or the conditions surrounding their marketing be such, that they could be encountered by the same purchasers under circumstances that could give rise to the mistaken belief that the goods come from a common source. *In re Martin's Famous Pastry Shoppe, Inc.*, 748 F.2d 1565, 223 USPQ 1289 (Fed. Cir. 1984); *In re Corning Glass Works*, 229 USPQ 65 (TTAB 1985); *In re Rexel Inc.*, 223 USPQ 830 (TTAB 1984); *Guardian Products Co., Inc. v. Scott Paper Co.*, 200 USPQ 738 (TTAB 1978); *In re International Telephone & Telegraph Corp.*, 197 USPQ 910 (TTAB 1978).

The examining attorney must consider any goods or services in the registrant's normal fields of expansion to determine whether the registrant's goods or services are related to the applicant's identified goods or services under Section 2(d). *In re General Motors Corp.*, 196 USPQ 574 (TTAB 1977).

Applicant seeks to register the mark GRIZZLY INDUSTRIAL for "woodworking and metal working machinery, including table saws, jointers, shapers, planers, power feeders, molders, sanders, scroll saws, bandsaws, dust collection system, woodworking lathes, metalworking lathes, drill presses, grinders, buffers, electric motors, milling machines, power hacksaws, arbor presses, sheet metal machines, pneumatic air tools, parts washers, cut-off saws, rotary tables, dividing heads, and parts and accessories therefor." (See below for suggestions with identification of goods.) Registrants own registrations for the marks GRIZZLY BEAR for "buffing and polishing pads used for floor maintenance machines" and GRIZZLY and design for "synthetic diamond core bits, diamond saw blades, diamond core drilling machines, diamond sawing machines and dry cutting abrasive blades." The goods are substantially similar in that they either relate to buffing and buffing machines or they relate to saws and sawing machines. Additionally, the goods will be used by a similar class of purchaser and are commonly found in the same trade channels. The average consumer who encounters the Applicant's mark with either "GRIZZLY BEAR" or "GRIZZLY" and design, and on such highly related goods, would mistakenly believe that a common source provided the goods. Given the substantially similar, if not identical goods and trade channels thereof, the Applicant's mark is sufficiently similar to the Registrants' marks in order to cause likelihood of confusion between the source of the goods identified by the Applicant's proposed mark and the source of the goods identified by the registered marks. Thus, registration must be refused pursuant to Section 2(d) of the Trademark Act.

### INFORMALITIES

Although the examining attorney has refused registration, the Applicant may respond to the refusal to register by submitting evidence and arguments in support of registration. If the Applicant chooses to respond to the refusal to register, the Applicant must also respond to the following informalities.

#### Identification of Goods/Classification

The identification of goods is unacceptable as indefinite. The words "including," "systems," "tools" and "accessories" in the identification of goods are too broad because they cover items which may be included in more than one International Class. The Applicant must use the common commercial names for the goods, be as complete and specific as possible and avoid the use of indefinite words and phrases. If there is no common commercial name, the applicant must describe the product and its intended uses. TMEP section 804. If the Applicant chooses to use indefinite terms, such as "accessories," "components," "devices," "equipment," "materials," "parts," "systems" and "products," then those words must be followed by the word "namely" and the goods listed by their common commercial names. TMEP sections 804 and 804.08(c). With regards to the term "system" the Applicant must amend the identification by listing the major parts of the system and describing the nature and use of the system. TMEP section 804.08(c).

The Applicant may adopt the following identifications, if accurate.

In International Class 7, "woodworking and metal working machinery, namely: table saws; jointers; shapers; planers; power feeders; molders; sanders; scroll saws; bandsaws; dust collection system comprised of [*list the major parts of the system by their common commercial names*]; woodworking lathes; metalworking lathes; drill presses; grinders; buffers; electric motors; milling machines; power hacksaws; arbor presses; sheet metal machines; pneumatic air tools, namely [*specify the tools by their common commercial names*]; parts washers; cut-off saws; rotary tables; dividing heads; and parts therefor."

If the Applicant prosecutes this application as a combined, or multiple-class, application, the applicant must comply with each of the following.

(1) The Applicant must list the goods by international class with the classes listed in ascending numerical order. TMEP section 1113.01.

2) The Applicant must submit a filing fee for each international class of goods not covered by the fee already paid. Effective December 3, 1993, the filing fee is \$245.00 per class. 37 C.F.R. Sections 2.6(a)(1) and 2.86(b); TMEP sections 810.01 and 1113.01.

Disclaimer

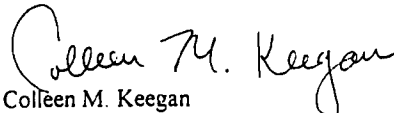
Trademark Act Section 6(a), 15 U.S.C. Section 1056(a), states that the Commissioner may require the Applicant to disclaim an unregistrable component of a mark. Trademark Act Section 2(e), 15 U.S.C. Section 1052(e), bars the registration of a mark which is merely descriptive or deceptively misdescriptive, or primarily geographically descriptive of the goods or services. Therefore, the Commissioner may require the disclaimer of a portion of a mark which, when used in connection with the goods or services, is merely descriptive or deceptively misdescriptive, or primarily geographically descriptive. If an applicant does not comply with a disclaimer requirement, the examining attorney may refuse registration of the entire mark. TMEP section 1213.01(b).

The Applicant must disclaim the descriptive wording "INDUSTRIAL" apart from the mark as shown. Trademark Act Section 6, 15 U.S.C. Section 1056; TMEP sections 1213 and 1213.02(a). The wording is merely descriptive because it describes a characteristic or function of the goods or services.

A properly worded disclaimer should read as follows:

No claim is made to the exclusive right to use "INDUSTRIAL" apart from the mark as shown.

If the Applicant has any questions or needs assistance in responding to this Office Action, please telephone the assigned examining attorney



Colleen M. Keegan  
Trademark Attorney  
U.S. Patent & Trademark Office  
(703) 308-9104 ext. 173

\*\*\* User: EX497519 \*\*\* Serial Number: 73596632 \*\*\*

Word Mark  
GRIZZLY BEAR

Goods/Services  
IC 007; US 023; G & S: BUFFING AND POLISHING PADS USED FOR FLOOR  
MAINTENANCE MACHINES; FIRST USE DATE: 1985.08.05; FIRST USE IN COMMERCE:  
1985.08.05

Mark Drawing Code  
(1) TYPED DRAWING

Serial Number  
73-596632

Filing Date  
1986.05.01

Registration Number  
1441043

Registration Date  
1987.06.02

Owner Name/Address  
(REGISTRANT) NORTON COMPANY CORPORATION MASSACHUSETTS 1 NEW BOND STREET  
WORCESTER MASSACHUSETTS 01606

Type of Mark  
TRADEMARK

Register  
PRINCIPAL

Affidavit  
SECT 8.; SECT 15.; COMBINED SECT 8 AND SECT 15.

GRIZC-00048

\*\*\* Search: 7 \*\*\* Document Number: 68 \*\*\*

\*\*\* User: EX497519 \*\*\* S. Number: 73645816 \*\*\*



rd Mark  
GRIZZLY

Goods/Services  
IC 007; US 023; G & S: SYNTHETIC DIAMOND CORE BITS, DIAMOND SAW BLADES,  
DIAMOND CORE DRILLING MACHINES, DIAMOND SAWING MACHINES AND DRY CUTTING  
ABRASIVE BLADES; FIRST USE DATE: 1985.01.20; FIRST USE IN COMMERCE:  
1985.01.20

Mark Drawing Code  
(3) DESIGN PLUS WORDS, LETTERS, AND/OR NUMBERS

Design Search Code  
03.01.14; 03.01.16

Serial Number  
73-645816

Filing Date  
1987.02.24

Registration Number  
1456173

Registration Date  
1987.09.08

Owner Name/Address  
(REGISTRANT) HOFFMAN DIAMOND PRODUCTS, INC. CORPORATION PENNSYLVANIA 108  
CEDAR ST. PUNXSUTAWNEY PENNSYLVANIA 15767

Type of Mark  
TRADEMARK

Register  
PRINCIPAL

Affidavit  
SECT 8.; SECT 15.; COMBINED SECT 8 AND SECT 15.

GRIZC-00049

\*\*\* Search: 7 \*\*\* Document Number: 67 \*\*\*

104  
2A

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant:	GRIZZLY INDUSTRIAL, INC.	)	Examining Attorney:
Serial No.:	75/303,371	)	Colleen M. Keegan
Filed:	06/04/97	)	Law Office 104
Mark:	GRIZZLY INDUSTRIAL	)	Attorneys' Ref. T4393

RESPONSE



Assistant Commissioner for Trademarks  
2900 Crystal Drive  
Law Office 104  
Arlington, Virginia 22202-3513

08-27-1998

U.S. Patent & TMOR/TM Mail Rpt DLT #51

Sir:

This is in response to the Office Action mailed February 23, 1998. A response is due August 24, 1998, August 23, 1998, being a Sunday. It is believed that no fee is presently due to maintain this application in full force and effect. However, if any such fee is due, please charge this to Account No. 08-3260.

Please amend the identification of goods as follows:

A2 D1	Woodworking and metal working machinery, namely: table saws; jointers; shapers; planers; power feeders; molders; sanders; scroll saws; bandsaws; dust collection systems comprised of dust collectors, dust collection hoods, dust collection clamps, vacuums, air filters, air filter containers, and air ducts; woodworking lathes; metalworking lathes; drill presses; grinders; buffers; electric motors; milling machines; power hacksaws; arbor presses; sheet metal machines; pneumatic air tools, namely impact wrenches, ratchet wrenches, grinders, drills, screw drivers, sanders, spray guns, air brushes, staplers, and nailers; parts washers; cut-off saws; rotary tables; dividing heads; and parts therefor, in International Class 7.
----------	---

Please amend the application to include the following:

A2 D1	No claim is made to the exclusive right to use "INDUSTRIAL" apart from the mark as shown.
----------	---



## REMARKS

This is in response to the Office Action dated February 23, 1998. In that Office Action, the Examining Attorney objected to the identification of goods. In response, the identification of goods has been amended as set forth above to provide the common commercial names of the pneumatic air tools and the components that comprise the dust collection systems recited in the identification of goods. The Applicant respectfully submits that these amendments render moot the objection to the identification of goods, and withdrawal of this objection is respectfully requested.

The Examining attorney also required a disclaimer of the term "industrial" apart from the mark GRIZZLY INDUSTRIAL. The application has been amended as set forth above to include the required disclaimer, and the Applicant respectfully requests withdrawal of the refusal on this basis.

Additionally, the Examining Attorney refused registration based on U.S. Registration Nos. 1,441,043 for the mark GRIZZLY BEAR as applied to buffing and polishing pads used for floor maintenance machines and 1,456,173 for the mark GRIZZLY plus design as applied to synthetic diamond core bits, diamond saw blades, diamond core drilling machines, diamond sawing machines and dry cutting abrasive blades. The refusal based on these registrations is respectfully traversed.

In particular, the identification of goods of the present application includes only woodworking and metalworking tools. In contrast, the goods/services in connection with which the registered marks are used are quite different.

The '043 registration is used on pads for floor maintenance machines, which are quite different from and sold through different retail channels than the goods of the present application.

The '173 applications relates to diamond or synthetic diamond cutting members and diamond core drilling machines. The goods recited in the '173 application are all related to diamond cutting tools and machines that use these tools. It is the Applicant's understanding that these tools fall in a narrow niche market that does not include the woodworking and metalworking tools cited by the present application.

Additionally, the term "grizzly" has been cited in a number of registrations in addition to the two registrations cited by the Examining Attorney. For example, a search of registered trademarks turns up at least 35 registered marks employing the root term "grizzl". Of these, registration Nos. 1,928,662 (GRIZZLY), 704,589 (GRIZZLY stylized letters), 565,480 (GRIZZLY KING) are all registered in International Class 7 for

machinery of one type or another. Additionally, Reg. No. 624,055 is registered in International Class 20 for shop equipment, namely tables, benches, cabinets, racks, shelves, stands, desks, and parts thereof. Reg. No. 1,958,913 (GRIZZLY) is registered for land vehicle parts. The Applicant thus respectfully submits that the term "grizzly" and cannot be considered highly proprietary to any one party outside of a relatively narrow set of goods.

Accordingly, it is respectfully submitted that the amendments to the description of goods set forth above emphasize the differences between the goods of the present application and those of the cited registration. Additionally, the large number of other registrations using the term "GRIZZLY" and variations thereof indicate that this term is not highly proprietary to the owner of the cited registration and that the Applicant's use of this mark is not likely to cause confusion with that of the registrant.

The Applicant would also like to point out to the Examining Attorney that the Applicant is the owner of U.S. Trademark Registration No. 2,166,833 (registered on June 23, 1998) for the mark GRIZZLY as applied to a set of goods very similar to those of the present application. The Applicant respectfully submits that the present mark is at least as registerable as the mark GRIZZLY that is the subject of the Applicant's '833 registration.

The applicant also respectfully draws the attention of the Examining Attorney to the fact that the applicant corporation changed its name from "Grizzly Imports, Inc." to Grizzly Industrial, Inc. by virtue of a Certificate of Amendment filed on October 13, 1997, in the Secretary of State's Office for the State of Washington. This change of name was recorded at the U.S. Patent and Trademark Office on March 13, 1998, at Reel 1704, Frame 0800. Grizzly Industrial, Inc. is the owner of both the present application and the '833 registration.

It is respectfully submitted that the above amendments and remarks place the present application in condition for allowance, and such allowance is respectfully requested. The Examining Attorney is invited to contact the Applicant's undersigned attorney if doing so would help expedite allowance. The Applicant's undersigned attorney can normally be reached at the telephone number set forth below.

GRIZC-00052

Signed at Bellingham, County of Whatcom, State of Washington this 24<sup>th</sup> day of August, 1998.

Respectfully submitted,

GRIZZLY INDUSTRIAL, INC.

By Michael R. Schacht

Michael R. Schacht, Reg. No. 33,500  
Hughes, Multer & Schacht, P.S.  
1720 Iowa Street  
Bellingham, WA 98226  
(360) 647-1296

**CERTIFICATE OF MAILING (37 CFR 1.8a)**

I hereby certify that this paper (along with any paper referred to as being attached or enclosed) is being deposited with the United States Postal Service as first class mail in an envelope addressed to: Commissioner of Patents and Trademarks, Washington, D.C. 20231, on date shown below.

August 24, 1998  
Date

Michael R. Schacht  
(Print name of person mailing paper)  
Michael R. Schacht  
(Signature of person mailing paper)

# AMENDMENT EXAMINATION WORKSHEET

Name: Robin Paige LO: 104 Date: 7/1/05 Serial No: \_\_\_\_\_

INSTRUCTIONS: To certify amendments the R&A Clerk should check the "AMENDED" column. The Text Editor should check "ENTERED" after the amendment has been entered.  
RETAIN IN FILE.

SCREEN	AMENDED	ENTERED	AMENDED TO:
AM			AM   Mark Type:
			AM   Register:
			AM   Mark: _____ MDC: _____
			AM   Amended Register: _____ PR: _____ SR: _____
			AM   Amended Reg Date: _____
PY			PY   Owner: <input type="checkbox"/> Name: _____
			PY   <input type="checkbox"/> Citizenship: _____
			PY   <input type="checkbox"/> Entity Type: _____
			EN   <input type="checkbox"/> Entity Statement: _____
			DB   DBA/KA/TA Statement: _____
CL			PY   Address: <input type="checkbox"/> Inter <input type="checkbox"/> City <input type="checkbox"/> State/Country <input type="checkbox"/> Zip
			NC   Assignment or Name Change: _____
			CO   Composed of: _____
			CL   International Class: _____ US Class: _____
			CL   First Use: _____ First Use in Commerce: _____
OTHER			GS   Goods and Services: _____
			GS   _____
			GS   _____
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			DI   Disclaimer: _____
			DM   Description of Mark: _____
			LS   Lining and Stippling Statement: _____
			TR   Translation of Words in Mark: _____
			NO   Name/Portrait Description/Consent: _____
			TF   Section 2(f): <input type="checkbox"/> Entire Mark <input type="checkbox"/> In Part <input type="checkbox"/> Limitation Statement: _____
FN			AF   Use in Another Form: _____
			CS   Certification Statement: _____
			CU   Concurrent Use Statement: _____
			PR   Prior US Registrations: _____
			DR   Domestic Representative: _____
			FN   Foreign Country of Origin: _____
			FN   Foreign Application No: _____ Frgn. Appl. Filing Date: _____
			FN   Section 44(d) Claimed: Y/N _____ Frgn. Reg. Date: _____
CD			FN   Foreign Registration No: _____ Frgn. Reg. Date: _____
			FN   Foreign Registration Expiration Date: _____
			FN   Foreign Renewal Reg. No: _____ Frgn. Reg. Renewed: _____
			FN   Foreign Registration Renewed Expiration Date: _____
CD			AT   Attorney Name: _____
			CD   Correspondence: <input type="checkbox"/> Name <input type="checkbox"/> Inter St. Address <input type="checkbox"/> City/State/Zip
			DN   Attorney Docket Number: _____

Other: \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

I certify that all corrections have been entered in accordance with the above instructions and text editing guidelines.

Initial box if no amendments are required

Text Editor

Date

**UNITED STATES DEPARTMENT OF COMMERCE  
Patent and Trademark Office**

<b>SERIAL NO.</b> 75/303371		<b>APPLICANT</b> GRIZZLY INDUSTRIAL, INC.		<b>PAPER NO.</b> 1/1			
<b>MARK</b> GRIZZLY INDUSTRIAL		<b>ADDRESS:</b> Assistant Commissioner for Trademarks 2900 Crystal Drive Arlington, VA 22202-3513  <small>If no fees are enclosed, the address should include the words "Box Responses - No Fee"</small>		<small>Please provide in all correspondence:</small> 1. Filing Date, serial number, mark and Applicant's name. 2. Mailing date of this action. 3. Examining Attorney's name and Law Office number. 4. Your telephone number and ZIP code.			
<b>ADDRESS</b> MICHAEL R SCHACHT HUGHES MULLEN & SCHACHT PC 1720 IOWA ST BELLINGHAM WA 98226						<b>ACTION NO.</b> 	
						<b>MAILING DATE</b> 	
				<b>REF. NO.</b> 			
<small>FORM PTO-1525 (5-90)</small>		<small>U.S. DEPT. OF COMM. PAT. &amp; TM OFFICE</small>					

**EXAMINER'S AMENDMENT**

	EXAMINING ATTORNEY	PERSON CALLED/INTERVIEWED	TELEPHONE NUMBER
	Janice L. McMorro	Michael Schacht	360/647-1296
<input checked="" type="checkbox"/>	TELEPHONE CALL	INTERVIEW DATE	<input checked="" type="checkbox"/> ATTORNEY
	PERSONAL INTERVIEW	November 12, 1998	<input type="checkbox"/> APPLICANT

**CALL RECORD/NOTES**

RE: Serial Number 75/303371

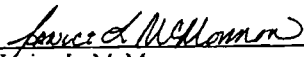
In accordance with the authorization granted by the above Applicant or attorney, the application has been AMENDED as indicated below. No response is necessary unless there is an objection to the amendment.

**Name on Registration Certificate**

NC

The registration is to issue in the applicant's new name, Grizzly Industrial Inc.

If the applicant has any questions, please contact the undersigned.

  
 Janice L. McMorro  
 Trademark Examining Attorney  
 Law Office 104  
 703/308-9104 x 170

GRIZC-00055

TRADEMARK ASSIGNMENT QUERY AS OF 11/16/1998 9:8:17  
REEL/FRAME DATA

REEL: 1704	DATE LAST UPDATED: 06/25/1998
FRAME: 0800	DATE IN SYSTEM:
	DATE KEYED IN:
NUMBER OF PAGES: 002	RECORDATION DATE: 03/13/1998
	DATE MAILED: 05/20/1998
ELECTRONIC SUBMISSION:N	ASSIGNMENT RECEIPT DATE:03/23/1998
PTAS SUBMISSION: Y	CONVEY EFFECTIVE DATE:

CORRESPONDENCE

NAME: HUGHES MULTER & SCHACHT  
MICHAEL R. SCHACHT  
1720 IOWA STREET  
BELLINGHAM, WA 98226

BRIEF CODE: 33  
BRIEF TEXT: CHANGE OF NAME

CONVEYING PARTY DATA

ENTRY: 001  
NAME: GRIZZLY IMPORTS, INC.  
FORMERLY:  
ENTITY: 03 - CORPORATION  
ENTITY TEXT:  
CITIZENSHIP: WA - WASHINGTON  
EXECUTION DATE: 08/28/1997

RECEIVING PARTY DATA

11] ENTRY: 600  
NAME: GRIZZLY INDUSTRIAL, INC.  
COMPOSED OF:  
DBA/AKA/TA:  
ADDRESS: 1821 VALENCIA STREET  
BELLINGHAM  
STE/CTRY CODE: WA - WASHINGTON  
ZIP CODE: 98226  
ENTITY: 03 - CORPORATION  
ENTITY TEXT:  
CITIZENSHIP: WA - WASHINGTON

DOMESTIC REPRESENTATIVE DATA

NAME:

PROPERTY DATA

SERIAL NUMBER: 75303371 FILING DATE: 06/04/1997  
REGISTRATION NUMBER:00000000 ISSUE DATE: 00/00/0000  
WORD MARK: GRIZZLY INDUSTRIAL  
MARK DESCRIPTION: WORDS, LETTERS, OR NUMBERS IN TYPED FORM  
LOCATION:L4R - TM&G LAW OFFICE 104 - REVIEW AND AMENDMENT  
LOCATION DATE: 11/14/98  
EXAMINER:MCMORROW, JANICE L

**END OF DATA**

**NOTE:** Assignments prior to 01/01/1955 are not contained in this data base.

**GRIZC-00057**

# A. AMENDMENT EXAMINATION WORK SHEET

Name: Arthur Lawrence LO: 104 Date: 11-16-98 Serial No: 75-309 371

INSTRUCTIONS: To certify amendments the R&A Clerk should check the "AMENDED" column. The Text Editor should check "ENTERED" after the amendment has been entered.  
RETAIN IN FILE.

SCREEN	AMENDED	ENTERED	AMENDED TO:
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			AM   Amended Reg Date:
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			EN   <input type="checkbox"/> Entity Statement:
			DB   DBA/AKA/TA Statement:
CL			PY   Address: <input type="checkbox"/> Inter <input type="checkbox"/> City/ <input type="checkbox"/> State/Country <input type="checkbox"/> Zip
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			CO   Composed of:
			CL   International Class: US Class:
			CL   First Use: First Use in Commerce:
OT HT EA			GS   Goods and Services:
			GS
			GS
			GS
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FN			DI   Disclaimer:
			DM   Description of Mark:
			LS   Lining and Stippling Statement:
			TR   Translation of Words in Mark:
			ND   Name/Portrait Description/Consent:
CD			TP   Section 2(f): <input type="checkbox"/> Entire Mark <input type="checkbox"/> In Part <input type="checkbox"/> Limitation Statement:
			AF   Use in Another Form:
			CS   Certification Statement:
			CU   Concurrent Use Statement:
			PR   Prior US Registrations:
FN			OR   Domestic Representative:
			FN   Foreign Country of Origin:
			FN   Foreign Application No: Frgn. Appl. Filing Date:
			FN   Section 44(d) Claimed: Y/N
			FN   Foreign Registration No: Frgn. Reg. Date:
FN			FN   Foreign Registration Expiration Date:
			FN   Foreign Renewal Reg. No: Frgn. Reg. Renewed:
			FN   Foreign Registration Renewed Expiration Date:
			AT   Attorney Name:
			CD   Correspondence: <input type="checkbox"/> Name <input type="checkbox"/> Inter St. Address <input type="checkbox"/> City/State/Zip
CD			DN   Attorney Docket Number:

Other: \_\_\_\_\_

GRIZC-00058

I certify that all corrections have been entered in accordance with the above instructions and text editing guidelines.

Initial box if no amendments are required

Text Editor

Date



## PUBLIC. CON/REGISTRATION EXAMINATION WORK SHEET

Reviewer: <u>Arthur Lawrence</u>		LO: <u>104</u>	Date: <u>12-12-91</u>	Serial No: <u>75-305311</u>
I certify all information in the database matched the information in the file and no corrections were required. (24)				
INSTRUCTIONS: If the information in the database does not match the information in the file the reviewer should check the ERROR column. After correction (text editing), the EDITED column should be checked. RETAIN IN FILE WRAP				
SCREEN	ERROR	EDITED	ERROR FOUND DURING REVIEW REQUIRING AMENDMENT OF:	
AM		AM	Mark Type:	
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		GS	Goods and Services:	
		GS		
OTHER		GS		
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		TR	Translation of Words in Mark:	
		NO	Name/Portrait Description/Consent:	
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		AF	Use in Another Form:	
		CS	Certification Statement:	
FN		CJ	Concurrent Use Statement:	
		PR	Prior U.S. Registrations:	
		DR	Domestic Representative:	
		FN	Foreign Country of Origin:	
		FN	Foreign Application No:	Frqn. Appl. Filing Date:
		FN	Section 44(d): Y/N	
		FN	Foreign Registration No:	Frqn. Reg. Date:
		FN	Foreign Registration Expiration Date:	
CD		FN	Foreign Renewal Reg. No:	Frqn. Reg. Renewed:
		FN	Foreign Registration Renewed Expiration Date:	
		AT	Attorney Name:	
	CD	Correspondence:	<input type="checkbox"/> Name <input type="checkbox"/> Inter St. Address <input type="checkbox"/> City/State/Zip	
	DN	Attorney Docket Number:		
Other:				
I certify that all corrections have been entered in accordance with the above instructions and text editing guidelines.				
Text Editor			Date	



UNITED STATES DEPARTMENT OF COMMERCE  
Patent and Trademark Office

ASSISTANT COMMISSIONER FOR TRADEMARKS  
2900 Crystal Drive  
Arlington, Virginia 22202-3513

Jan 22, 1999

NOTICE OF PUBLICATION UNDER 12(a)

- |                                      |   |
|--------------------------------------|---|
| 1. Serial No.:<br>75/303,371         | 2. Mark:<br>GRIZZLY INDUSTRIAL            |
| 3. International Class(es):<br>7     |   |
| 4. Publication Date:<br>Feb 23, 1999 | 5. Applicant:<br>GRIZZLY INDUSTRIAL, INC. |

The mark of the application identified appears to be entitled to registration. The mark will, in accordance with Section 12(a) of the Trademark Act of 1946, as amended, be published in the Official Gazette on the date indicated above for the purpose of opposition by any person who believes he will be damaged by the registration of the mark. If no opposition is filed within the time specified by Section 13(a) of the Statute or by rules 2.101 or 2.102 of the Trademark Rules, the Commissioner of Patents and Trademarks may issue a notice of allowance pursuant to section 13(b) of the Statute.

Copies of the trademark portion of the Official Gazette containing the publication of the mark may be obtained at \$38.00 each for domestic orders, or at \$47.50 each for foreign orders from:

The Superintendent of Documents  
U.S. Government Printing Office  
PO Box 371954  
Pittsburgh, PA 15250-7954  
Phone: (202) 512-1800

By direction of the Commissioner.

GRIZC-00060



03-26-1999

U.S. Patent & TMO/TM Mail Rpt 01: #47

TTAB

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE  
BEFORE THE TRADEMARK TRIAL AND APPEAL BOARD

In re Application of: )  
Grizzly Industrial, Inc. )  
Serial No.: 75/303,371 )  
Mark: GRIZZLY INDUSTRIAL )  
Filed: June 4, 1997 )  
Published: Official Gazette )  
February 23, 1999 )  
Page TM 118 )

2.23

Assistant Commissioner for Trademarks  
2900 Crystal Drive  
Box TTAB, NO FEE  
Arlington, Virginia 22202-3513

Attention: Trademark Trial and Appeal Board

FIRST REQUEST UNDER RULE 2.102 TO EXTEND  
TIME FOR FILING NOTICE OF OPPOSITION

Sir:

Orca Bay Basketball Limited Partnership ("Petitioner"), a  
British Columbia partnership, located at General Motors Place, 800  
Griffiths Way, Vancouver, British Columbia, V6B 6G1 Canada, by and  
through its attorneys, hereby requests that the time for filing a  
Notice of Opposition to the above identified application, due  
March 25, 1999, be extended for a period of sixty (60) days up to and  
including May 24, 1999.

Petitioner is presently investigating the pending  
application. The requested extension is to enable Petitioner's

GRIZC-00061

attorney to have sufficient time to fully investigate this matter and to review this matter with Petitioner to determine whether an opposition against the above-identified application should be filed.

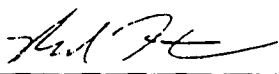
It is submitted that Petitioner has shown good cause for this request and respectfully requests that the extension be granted.

This Request is submitted in triplicate, as required by 37 C.F.R. § 2.102(d).

Respectfully submitted,

ORCA BAY BASKETBALL LIMITED  
PARTNERSHIP

By:

  
Kathryn Barrett Park  
Ayala Deutsch  
Richard A. Friedman  
Its Attorneys

NBA PROPERTIES, INC.  
Olympic Tower  
645 Fifth Avenue  
New York, New York 10022

March 24, 1999

CERTIFICATE OF MAILING

I hereby certify that this correspondence is being deposited with the United States Postal Service as first-class mail, postage prepaid, in an envelope addressed to: Assistant Commissioner for Trademarks, BOX TTAB, NO FEE, 2900 Crystal Drive, Arlington, Virginia 22202-3513 on March 24, 1999.

  
Frances Policastro

GRIZC-00062

UNITED STATES DEPARTMENT OF COMMERCE  
Patent and Trademark Office  
Trademark Trial and Appeal Board  
2900 Crystal Drive  
Arlington, Virginia 22202-3513

June 14, 1999

Applicant: Grizzly Industrial, Inc.  
Serial No.: 75/303,371  
Filed: 6/4/97  
Mark: GRIZZLY INDUSTRIAL

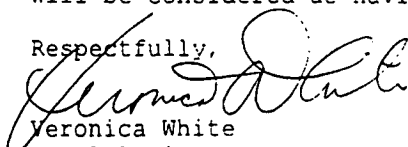
Richard A. Friedman  
NBA PROPERTIES INC.  
Olympic Tower  
645 Fifth Avenue  
New York, NY 10022

Sir/Madam:

The request for extension of time to oppose, filed under Trademark Rule 2.102 on behalf of Orca Bay Baseball Limited Partnership (copy attached), was timely filed but is now being acted on. The Board regrets the delay and any resulting inconvenience caused to the potential opposer or to applicant.

The request for extension of time to oppose is granted. If any further request for extension of time to oppose or any notice of opposition was filed on or before May 24, 1999, it will be considered as having been timely filed.

Respectfully,

  
Veronica White  
Legal Assistant,  
Trademark Trial and Appeal Board  
(703) 308-9300 x 162

Attachment

cc:

Michael R. Schacht PS  
1720 Iowa Street  
Bellingham, WA 98226

GRIZC-00063

U.S. Patent and Trademark Office (PTO)  
**NOTICE OF ALLOWANCE**

(NOTE: If any data on this notice is incorrect, please submit a written request for correction of the NOA to: Assistant Commissioner for Trademarks, Box 1TU, 2900 Crystal Drive, Arlington, VA 22202-3513. Please include the serial number of your application on ALL correspondence with the PTO. 15 U.S.C. 1063(b)(2))

ISSUE DATE OF NOA: Aug 10, 1999

MICHAEL R SCHACHT  
HUGHES MULTER & SCHACHT PS  
1720 IOWA ST  
BELLINGHAM WA 98226

ATTORNEY  
REFERENCE NUMBER  
T4393

**\*\* IMPORTANT INFORMATION: 6 MONTH DEADLINE \*\***

To avoid ABANDONMENT of this application, either a "Statement of Use" (a.k.a. "Allegation of Use") or a "Request for Extension of Time to File a Statement of Use" (a.k.a. "Extension Request") and the appropriate fee(s) must be received in the PTO within six months of the issue date of this Notice Of Allowance (NOA). Failure to do so will result in the ABANDONMENT of this application.

Please note that both the "Statement of Use" and "Extension Request" have many legal requirements, including fees. These requirements are explained in the PTO booklet "Basic Facts About Trademarks", which can be obtained upon request at (703)308-9000. In addition, there are printed forms contained in this booklet (for "Statements of Use" and "Extension Requests") for your use.

The following information should be reviewed for accuracy:

SERIAL NUMBER: 75/303371  
MARK: GRIZZLY INDUSTRIAL  
OWNER: GRIZZLY INDUSTRIAL, INC.  
1821 VALENCIA STREET  
BELLINGHAM, WASHINGTON 98226

**GOODS/SERVICES BY INTERNATIONAL CLASS**

007—woodworking and metal working machinery, namely, table saws; jointers; shapers; planers; power feeders; molders; sanders; scroll saws; bandsaws; dust collection systems comprised of dust collectors, dust collection hoods, dust collection clamps, vacuums, air filters, air filter containers, and air ducts; woodworking lathes; metalworking lathes; drill presses; grinders; buffers; electric motors; milling machines; power hacksaws; arbor presses; sheet metal machines; pneumatic air tools, namely, impact wrenches, ratchet wrenches, grinders, drills, screw drivers, sanders, spray guns, air brushes, staplers, and nailers; parts washers; cut-off saws; rotary tables; dividing heads; and parts therefor

ALL OF THE GOODS/SERVICES IN EACH CLASS ARE LISTED

GRIZC-00064

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant:	GRIZZLY INDUSTRIAL, INC.	)	Attorney Ref. No. T4393
Serial No.:	75/303,371	)	Allowed: 08/10/99
Filed:	06/04/97	)	International Class 007
Mark:	GRIZZLY INDUSTRIAL	)	

CHANGE OF ATTORNEY'S ADDRESS IN APPLICATION

BOX CHANGE OF ADDRESS  
Commissioner for Patents and Trademarks  
U.S. Patent & Trademark Office  
Washington, D.C. 20231

Please send all correspondence for this application as follows:

*CD*  
Michael R. Schacht  
Hughes & Schacht, P.S.  
2801 Meridian Street, Suite 1  
Bellingham, Washington 98225-2412

Please direct telephone calls to:

Michael R. Schacht  
360-647-1296  
Fax: 360-671-2489

Respectfully submitted,

*Michael R. Schacht*  
Michael R. Schacht, Reg. No. 33,550  
Hughes & Schacht, P.S.  
2801 Meridian Street, Suite 1  
Bellingham, WA 98225-2412  
(360) 647-1296

CERTIFICATE OF MAILING

37 C.F.R. §1.8

I hereby certify that this paper (along with any paper referred to as being attached or enclosed) is being deposited with the United States Postal Service as first class mail in an envelope addressed to BOX CHANGE OF ADDRESS, Commissioner for Patents and Trademarks, Washington, DC 20231, on the date shown below.

Signature: *Gloria Smithy*

Print Name: Gloria Smithy

Date: *Sept. 14, 1999*

GRIZC-00065

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100

09-17-1999

U.S. Patent & TMO/TM Mail Rpt Dt. #67

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant:	GRIZZLY INDUSTRIAL, INC.	)	Attorney Ref. No. T4393
Serial No.:	75/303,371	)	Allowed: 08/10/99
Filed:	06/04/97	)	International Class 007
Mark:	GRIZZLY INDUSTRIAL	)	

BOX ITU FEE  
ASSISTANT COMMISSIONER FOR TRADEMARKS  
2900 CRYSTAL DRIVE  
ARLINGTON, VIRGINIA 22202-3513

SUBMISSION OF STATEMENT OF USE

This follows the Notice of Allowance which was mailed from the Office on August 10, 1999. Enclosed is the executed Statement of Use and three (3) photographs showing the trademark as used. Enclosed is a check in the amount of \$100.00 in payment of the associated fee. It is believed that no other fee is due at this time to maintain this application in full force and effect. However, if any such fee or charge is due, please charge this to Deposit Account No. 08-3260.

If there is any matter which could be expedited by consultation with the Applicant's attorney, such would be welcome. The Applicant's attorney can normally be reached at the telephone number noted below.

Signed at Bellingham, County of Whatcom, State of Washington, this 14th day of September, 1999.

Respectfully submitted,

GRIZZLY INDUSTRIAL, INC.

By Michael R. Schacht  
Michael R. Schacht, Reg. No. 33,550  
Hughes & Schacht, P.S.  
2801 Meridian Street, Ste. 1  
Bellingham, WA 98225-2412  
(360) 647-1296

CERTIFICATE OF MAILING  
37 C.F.R. §1.8

I hereby certify that this paper (along with any paper referred to as being attached or enclosed) is being deposited with the United States Postal Service as first class mail in an envelope addressed to BOX ITU, Assistant Commissioner for Trademarks, 2900 Crystal Drive, Arlington, VA 22202-3513, on the date shown below.

Signature: Gloria Smithy

Print Name:

Gloria Smithy

Date:

GRIZC-00066





ITU

09-17-1999

U.S. Patent & TM/CB/TM Mail Rpt Dt. #67

THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant: GRIZZLY INDUSTRIAL, INC.

Attorney Ref. No. T4393

Serial No.: 75/303,371

Allowed: 08/10/99

Filed: 06/04/97

International Class 007

Mark: GRIZZLY INDUSTRIAL

BOX ITU FEE  
ASSISTANT COMMISSIONER FOR TRADEMARKS  
2900 CRYSTAL DRIVE  
ARLINGTON, VIRGINIA 22202-3513

STATEMENT OF USE

Sir:

The Applicant is believed to be the owner of the mark sought to be registered.

The mark was first used at least as early as December 31, 1983.

The mark was first used in interstate commerce at least as early as  
December 31, 1983.

The goods for which the mark is in use in commerce are: woodworking and metalworking machinery, namely, table saws, jointers, shapers, planers, power feeders, molders, sanders, scroll saws, bandsaws, dust collection systems comprised of dust collectors, woodworking lathes, metalworking lathes, drill presses, grinders, buffers, electric motors, milling machines, power hacksaws, arbor presses, and sheet metal machines; pneumatic air tools, namely, impact wrenches, ratchet wrenches, grinders, drills, sanders, staplers, nailers, parts washers, and cut-off saws.

The applicant respectfully submits that the identification of goods has been amended to eliminate the following goods: dust collection hoods, dust collection clamps, vacuums, air filters, air filter containers, air ducts, screw drivers, spray guns, air brushes, rotary tables, and dividing heads.

The mark is used by applying it directly to the product and/or packaging for the product. Three specimens showing the mark as currently being used are submitted herewith.

A check for the fee prescribed in 37 CFR §2.6(a)(3) is attached.

The undersigned being hereby warned that willful false statements and the like so made are punishable by fine or imprisonment, or both, under 18 U.S.C. 1001, and that such willful false statements may jeopardize the validity of the application or any resulting registration, declares that he is properly authorized to execute this Statement of Use on behalf of Applicant; he believes Applicant to be the owner of the trademark sought to be registered; the trademark is now in use in commerce; and all statements made of his own knowledge are true and all statements made on information and belief are believed to be true.

Respectfully submitted,

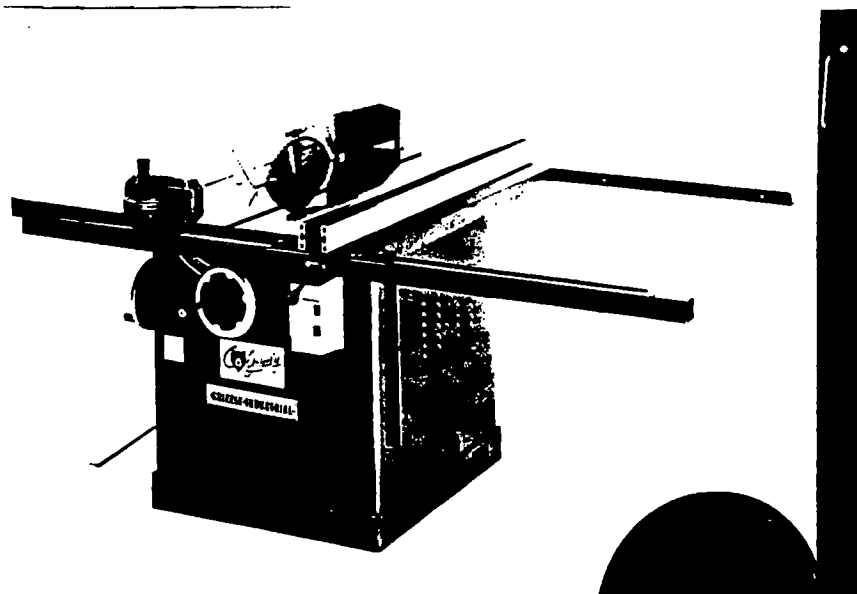
GRIZZLY INDUSTRIAL, INC.

By: 

Shirey Batolia  
President

Dated: 9/13/99

GRIZC-00068



GRIZC-00069

# AMENDMENT WORKSHEET

NAME: Darrell Griggs DATE: 10/14/95 SERIAL # 75(3433)

INSTRUCTIONS: The dates of use and/or deletion to goods have been entered in the file. The Text Editor should check the "Entered" column after the amendment has been entered in the database.

## RETAIN IN APPLICATION FILE

SCREEN CODE	AMENDED	ENTERED	AMENDED TO:
CL	X	/	Date of first use
CL	X	/	Date of first use in commerce
DELETE (GS)			Goods & Services
CL			International Class
PY			Applicant: <> Name <> Address <> Entity Type <> Citizenship/State of Incorporation
NC/99			Assignment/Name Change
CD			Correspondence <> Name <> Address

NOTE:

OTHER INFORMATION OR AMENDMENTS:

NO AMENDING REQUIRED ( ):

All indicated amendment(s) have been entered in the database in accordance with the above instructions and text editing guidelines.

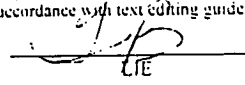
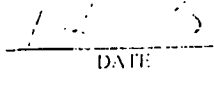
INIT. 5/2

DATE: 10/16/99

# TRADEMARK EXAMINATION WORKSHEET

☐ AMENDMENT STAGE      ☐ NO CHANGE      ☒ PUBLICATION/REGISTRATION STAGE

Name: Tammara Baker      L.O. 104      Date 12/2/99      Serial No. 303371

INSTRUCTIONS: Place a check mark in the appropriate column and/or box to indicate which data elements have been amended/coded.			
Legal Instrument Examiner (LIE)			
	Amended	Data Element	
Class Data	<input checked="" type="checkbox"/>	<input type="checkbox"/> Prime/International Class	<input checked="" type="checkbox"/> Goods and Services
		<input type="checkbox"/> First Use Date	<input type="checkbox"/> First Use in Commerce Date
		<input type="checkbox"/> In Another Form	<input type="checkbox"/> Certification
		<input type="checkbox"/> 1b	
Mark Data		<input type="checkbox"/> Word Mark	<input type="checkbox"/> Pseudo Mark
		<input type="checkbox"/> Mark Drawing Code	<input type="checkbox"/> Design Search Code
		<input type="checkbox"/> Sizing/Lining Code	
Misc. Mark Data		<input type="checkbox"/> Mark Description	<input type="checkbox"/> Disclaimer
		<input type="checkbox"/> Lining/Stippling	<input type="checkbox"/> Name/Portrait/Consent
		<input type="checkbox"/> Translation	
Section 2(f)		<input type="checkbox"/> Section 2(f) Entire Mark	
		<input type="checkbox"/> Section 2(f) Limitation Statement	<input type="checkbox"/> Section 2(f) in Part
		<input type="checkbox"/> Amended Register	<input type="checkbox"/> Amended Register Date
Foreign Reg. Data		<input type="checkbox"/> Foreign Country	<input type="checkbox"/> J4rd
		<input type="checkbox"/> Foreign Application Number	<input type="checkbox"/> Foreign Application Filing Date
		<input type="checkbox"/> Foreign Registration Number	<input type="checkbox"/> Foreign Registration Date
		<input type="checkbox"/> Foreign Registration Expiration Date	<input type="checkbox"/> Foreign Renewal Reg. Number
		<input type="checkbox"/> Foreign Reg. Renewal Expiration Date	<input type="checkbox"/> Foreign Renewal Reg. Date
Owner Data		<input type="checkbox"/> Owner Name	<input type="checkbox"/> DBA/AKA/TA
		<input type="checkbox"/> Address 1	<input type="checkbox"/> Address 2
		<input type="checkbox"/> City	<input type="checkbox"/> State
		<input type="checkbox"/> Zip Code	
		<input type="checkbox"/> Citizenship	<input type="checkbox"/> Entity
		<input type="checkbox"/> Entity Statement	<input type="checkbox"/> Composed of
		<input type="checkbox"/> Assignment(s)/Name Change	
Amd/Corr Restr.		<input type="checkbox"/> Concurrent Use	
Prior U.S. Reg.		<input type="checkbox"/> Prior Registration	
Correspondence		<input type="checkbox"/> Attorney	<input type="checkbox"/> Domestic Representative
		<input type="checkbox"/> Attorney Docket Number	
		<input type="checkbox"/> Correspondence Firm Name/Address	
<p>I certify that all corrections have been entered in accordance with text editing guidelines</p> <p style="text-align: center;">   </p> <p>Other: _____</p> <p style="text-align: right;">GRIZC-00071</p>			

PAPER NO. 14

BRIEF OF INTER PARTES CASE

PROCEEDING No. Can. No. 32,025.

SERIAL No.

FILED

APPLICANT

REGISTRATION No. 2,312,226

Issued: 1/25/00

REGISTRANT GRIZZLY INDUSTRIAL, INC.

ADVERSE PARTY PUCEL ENTERPRISES, INC.

DECISION

TRADEMARK TRIAL AND APPEAL BOARD

DATED

COURT ^

DATED

**ULMER & BERNE LLP**  
ATTORNEYS AT LAW

Internet Address  
<http://www.ulmer.com/>

E-mail Address  
[nvickroy@ulmer.com](mailto:nvickroy@ulmer.com)

Bond Court Building  
1300 East Ninth Street, Suite 900  
Cleveland, Ohio 44114-1583  
Fax (216) 621-7488

Columbus Office  
88 East Broad Street, Suite 1980  
Columbus, Ohio 43215-3506  
Fax (614) 228-8561  
Telephone (614) 228-8400

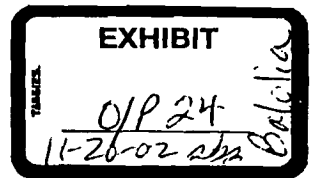
(216) 621-8400

NICOLE D. VICKROY  
Direct Dial (216) 902-8826

April 11, 2000

VIA CERTIFIED MAIL  
RETURN RECEIPT REQUESTED

Grizzly Industrial, Inc.  
1821 Valencia St.  
Bellingham, WA 98226



Re: Pucel Enterprises, Inc. Trademark Infringement

Dear Sirs:

This firm represents Pucel Enterprises, Inc. ("Pucel") in intellectual property matters. Pucel is a well known and well-respected business that has developed a reputation based upon high-quality material handling and industrial equipment. We are writing to address our client's concerns over Grizzly Industrial, Inc.'s ("Grizzly Industrial") use of the trademark GRIZZLY.

Pucel's goods are sold under its valuable trademark GRIZZLY. Since at least as early as 1951, Pucel has used the trademark GRIZZLY in connection with its material handling and industrial equipment products. On September 20, 1960 Pucel received federal trademark registration Nos. 704,589 and 704,529 from the U.S. Patent and Trademark Office for the trademark GRIZZLY, granting it exclusive right, title and interest in the use of that trademark. As a result of continued use, promotion and advertising, consumers and the general public have come to associate closely the trademark GRIZZLY with Pucel and its goods and services.

It has recently come to the attention of our client that Grizzly Industrial is marketing and selling material handling and industrial products under the mark GRIZZLY. This use of the GRIZZLY mark in connection with material handling and industrial products is confusingly similar to our client's registered trademark GRIZZLY and constitutes unfair competition, false designation of origin, and directly infringes upon our client's rights in its registered trademark.

2000019

ULMER & BERNE LLP

Grizzly Industrial, Inc.

April 11, 2000

Page 2

Accordingly, Pucel demands that Grizzly Industrial immediately cease and desist from using, in any manner or capacity, any mark that is confusingly similar to the registered trademark GRIZZLY in connection with material handling and industrial equipment.

Please understand that our client takes its intellectual property rights very seriously, and it is committed to protecting its intellectual property. Accordingly, within 15 days of the date of this letter, please provide written confirmation that Grizzly Industrial has fully complied with these demands.

We hope Grizzly Industrial will give this matter the serious consideration which it deserves, and we look forward to its prompt written response.

Very Truly Yours,

  
Nicole D. Vickroy

97534v1

13133.000

cc: Pucel Enterprises, Inc.

2000020



# PERKINS COIE LLP

1201 THIRD AVENUE, SUITE 4800 • SEATTLE, WASHINGTON 98101-3099  
TELEPHONE: 206 583-8888 • FACSIMILE: 206 583-8500

RAMSEY M. AL-SALAM  
(206) 264-6385  
alsar@perkinscoie.com

May 3, 2000

Nicole D. Vickroy  
ULMER & BERNE LLP  
Bond Court Building  
1300 East Ninth Street, Suite 900  
Cleveland, OH 44114-1583



**Re: Grizzly Industrial, Inc. / Pucel Enterprises**  
**Our Reference No. 31474-0003**

Dear Ms. Vickroy:

We represent Grizzly Industrial in intellectual property matters, and are responding to your letter of April 11, 2000.

Grizzly Industrial is a leading distributor of industrial tools, and has been using the mark "GRIZZLY" since at least 1983. Grizzly is also the owner of U.S. Trademark Registration No. 2,166,833 for GRIZZLY for a broad variety of woodworking and metal working machinery. Grizzly Industrial's name and trademark have become extremely well known and famous within the industry.

Your letter indicates your client is concerned about Grizzly Industrial's marketing and sale of "material handling and industrial products." As noted above, Grizzly Industrial has been selling "industrial" products for more than 15 years. To the extent "material handling" products means the mobile bases for Grizzly Industrial's shop equipment, Grizzly Industrial has been selling such products for more than 10 years. Grizzly Industrial has also sold pallet jacks for over three years.

We understand that your client has long been aware of Grizzly Industrial and its products. Further, to the best of our knowledge, there has never been any confusion in the market concerning the origin of Grizzly Industrial's products. Grizzly Industrial prominently labels all its products.

In sum, we do not understand the basis for your client's concerns or claims. If you would like to discuss this further, please feel free to call me.

2000017

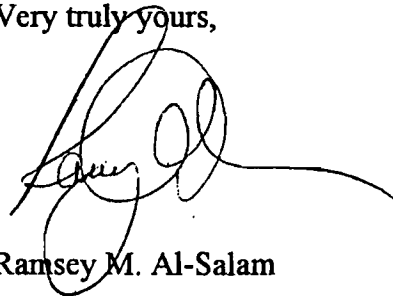
[31474-0003/SL003706.100]

Nicole D. Vickroy  
May 3, 2000  
Page 2

On a separate issue, Grizzly Industrial may have an interest in discussing a business relationship with your client, perhaps even including a purchase of your client's business. If your client would like to discuss such a possibility, please have him call Shiraz Balolia, President of Grizzly Industrial, Inc. at (360) 647-0801, extension 223.

Thank you for your attention to this matter.

Very truly yours,

A handwritten signature in black ink, appearing to read 'Ramsey M. Al-Salam', with a long horizontal flourish extending to the right.

Ramsey M. Al-Salam

RMA:rb

2000018

1 support material.

2 Q And they can support any type of machine; is that what  
3 you're -- is that what you're saying?

4 A Specify "any type."

5 Q I don't know. You know, I just don't know the -- you  
6 know, let me ask you this question. Maybe it's a little  
7 more straightforward. What type of machines can a  
8 roller stand support? You probably know a lot more  
9 about machines than I do.

10 A Roller stands can be used in conjunction with table  
11 saws, jointers, planers, band saws, milling machines,  
12 shavers, drill presses, and other machines, which I'd  
13 have to go through my catalog to review.

14 Q But those roller stands could be used with -- I take it  
15 with machines other than the machines that are in your  
16 catalogs?

17 A Yes.

18 Q What customers buy your roller stands?

19 A Again, that's a very ambiguous question.

20 Q Okay. Okay, fine. What class of customers buy your  
21 roller stands? Does that help clarify it at all?

22 A No.

23 Q Do you have a particular customer that buys roller  
24 stands?

25 MR. SCHMIDT: Are you asking him to identify a

1 Q But they differ from roller stands, though?

2 A Yes.

3 Q And they differ in that mobile bases are just used to  
4 transport equipment as compared to a roller stand, which  
5 is used to permanently support equipment of some type?

6 A That's not true.

7 Q Okay. What's the difference between -- I'm just looking  
8 for the difference between mobile bases and roller  
9 stands.

10 A You could take a roller stand and put it on a mobile  
11 base and move it around the shop. You could take a  
12 workbench and put it on a mobile base and move it around  
13 the shop.

14 Q And you're referring to any type of shop?

15 A I'm -- yes.

16 Q Not just woodworking shops and metalworking shops;  
17 right?

18 A Yes.

19 Q Could you describe a mobile base for me, is it a small  
20 thing, a little thing that does not rise much above the  
21 ground; is that what a mobile base is?

22 A Yes. If you look at my catalog, you can tell what a  
23 mobile base looks like.

24 Q Okay. But that's essentially it, it's close to the  
25 ground?

1 A It's close to the ground.

2 Q And a roller stand sits up higher?

3 A Yes, but it can be adjusted up and down.

4 Q Okay. Now, back in -- in '94 or '96, whenever it was  
5 that you first sold the roller stands and the mobile  
6 bases, your company operated under a different name;  
7 didn't it?

8 A Yes.

9 Q And what was that name?

10 A Grizzly Imports, Inc.

11 Q And that -- you changed the name of your company  
12 sometime in 1997 from Grizzly Imports, Inc. to Grizzly  
13 Industrial, Inc.?

14 A Yeah, I think it was either '97 or '98.

15 Q And why -- why did you make that name change?

16 A I heard a few comments that made me uncomfortable about  
17 the image of the company.

18 Q You mean the nature, the connotations associated with  
19 the word "Imports"; is that what you're trying to say?

20 A Yes.

21 Q And that's what prompted the change --

22 A Yes.

23 Q -- to "Industrial"? Was it also a move to -- excuse me.  
24 When I say "move," was the change of name also to  
25 enhance your sales I take it, the thought being that

1 Grizzly Industrial was a better name than Grizzly  
2 Imports?

3 MR. SCHMIDT: Objection, compound.

4 MR. MITCHELL: Okay.

5 MR. SCHMIDT: Use part of that.

6 MR. MITCHELL: Yeah, I agree. I'll withdraw that,  
7 that question. Could I have a cup of coffee?

8 MR. MLAKAR: Sure (pouring coffee).

9 Q (BY MR. MITCHELL) The comments that you heard, what  
10 were those comments?

11 MR. SCHMIDT: I've just made some comments and  
12 objections, and if you're going back to your other  
13 question --

14 MR. MITCHELL: Yeah, I'm going back.

15 MR. SCHMIDT: If you could tie it in a little more.

16 MR. MITCHELL: Well, he stated I believe that he  
17 changed the name to Grizzly Industrial because he had  
18 heard some comments from -- from somebody. I don't know  
19 who made those comments; and, therefore, he wanted to  
20 change it to Grizzly Industrial.

21 Q (BY MR. MITCHELL) And I was just asking for the  
22 substance of those comments, if you recall.

23 A One of the comments I heard was that it reminded them of  
24 Pier One Imports. And that's my answer.

25 Q Okay. The -- and was there another reason that you

1 A The woodworking and metalworking industry.

2 Q What -- how would you describe the woodworking  
3 industry?

4 A Cabinet shops, homeowners.

5 Q Excuse me. Cabinet shops and what did you say?

6 A Homeowners that have a shop in their homes.

7 Q Anything else for woodworking?

8 A No.

9 Q And what about the metalworking industry, how would you  
10 describe that?

11 A Again, the small home shops, small machine shops, repair  
12 shops.

13 Q Repair shops for -- for what?

14 A A maintenance shop for anything.

15 Q Any -- anything else under metalworking that would  
16 describe that industry?

17 A No.

18 Q Okay. Now, do you -- do you sell primarily to these  
19 people, and let's talk about metalworking first, to  
20 small home shops, small machine shops, and repair shops,  
21 is that who you sell to?

22 A Yes.

23 Q And when I -- I used the word "primarily," and could you  
24 -- could you tell me what percentage of your sales are  
25 to metalworkers in the first place? And when I say

1 "sales," let's talk about present-day sales.

2 MR. SCHMIDT: Do you mean 2002?

3 MR. MITCHELL: Yes, as we sit here today.

4 THE WITNESS: I would say about 15 percent. Again,  
5 that's a --

6 Q (BY MR. MITCHELL) 15 percent?

7 A That's an approximate figure.

8 Q And sure. What about -- what about woodworking, what  
9 percentage of your sales goes to the woodworking  
10 industry?

11 A The balance.

12 Q 85 percent?

13 A Yes.

14 MR. MITCHELL: Now if the court reporter could  
15 please mark this exhibit as O/P Number 4, it would be  
16 appreciated.

17 (Exhibit O/P-4 marked.)

18 Q (BY MR. MITCHELL) Mr. Balolia, here's the -- here's  
19 your Grizzly Industrial catalog from the year 2001 I  
20 think; is that correct?

21 A Yes.

22 Q And I think if you go -- if you turn into that catalog,  
23 open it up, please, and go back I think four pages.

24 A (Witness complies.)

25 Q You see a list there of your customers; correct?



1 A Some of them.

2 Q And I think that that document describes those as your  
3 well-known customers; right?

4 A It's a sampling of our customers.

5 Q Right. Now, which -- which -- which of those customers  
6 would you characterize as woodworking customers?

7 A I don't know.

8 Q Which of those customers on -- what page is that?

9 A Three.

10 Q Okay. Of that brochure, page 3, would you characterize  
11 as metalworking customers?

12 A I don't know.

13 Q Who would know?

14 A Well, you're asking a question that I would have to  
15 review what they bought to give you an idea. I don't  
16 know what they've bought. I do not know what they use  
17 that product for.

18 Q These are people -- these people listed here or these  
19 companies listed here are all -- are a list of your  
20 customers; right?

21 A They're a sampling of our customers, of our better-known  
22 customers.

23 Q Do you sell primarily to these better-known customers  
24 on page 3 of -- of Exhibit 4?

25 A No.

1 advance, but are we talking less than five percent? I  
2 mean, could you comfortably say that or can you just not  
3 say, period?

4 A Five percent of what?

5 Q Five percent of your total sales of \$90 million in the  
6 year 2001.

7 MR. SCHMIDT: Just a second. Can you go back to the  
8 last comment made?

9 MR. MITCHELL: Why don't we take a brief break, too.

10 MR. SCHMIDT: Well --

11 MR. MITCHELL: I'm sorry. We'll deal with this  
12 first.

13 (Record read by reporter.)

14 MR. SCHMIDT: I think, you know, these are all  
15 confidential. We should go confidential before you  
16 start blurting out numbers that we haven't done yet. If  
17 you're going to get into the numbers, I think you should  
18 pause. You just came right out with it before I had a  
19 chance to say that. That has to be confidential where  
20 the \$90 million is mentioned and any transcripts printed  
21 up are going to have to be printed up in two parts, any  
22 confidential parts designated separately.

23 MR. MITCHELL: Is that what the protective order  
24 says? I don't recall exactly how -- how that was to be  
25 handled, but that's fine with me.

1 for 2001?

2 A Yes.

3 MR. SCHMIDT: You wanted to clarify that.

4 THE WITNESS: I do want to clarify the number.

5 Q (BY MR. MITCHELL) Sure.

6 A The number that was provided to you, there was an error  
7 somewhere along the line.

8 Q Okay.

9 A It's -- for 2001, that number was \$81 million.

10 Q Okay, fine.

11 A So you need to refer to that.

12 Q So, in other words, if we wanted to know your  
13 approximate sales for material handling equipment for  
14 year 2001, it's less than half a percent of \$81 million?

15 A Yes.

16 Q And is that holding true for the year 2002 as well?

17 A Yes.

18 Q And is that -- are your material handling sales spread  
19 amongst your customers evenly?

20 A What do you mean by "evenly"?

21 Q What I'm really trying to get at is, do you have one  
22 particular customer that you sell a lot of material  
23 handling equipment to?

24 A No.

25 Q Do you sell material handling equipment to the people

1 A Again, I don't know for sure.

2 Q You don't know?

3 A No.

4 Q The -- the -- you wouldn't characterize the companies on  
5 page 3 of Opposer's Exhibit 4 as metalworkers; would  
6 you?

7 A I think you asked that question already and I answered  
8 it.

9 Q I may have. Now, you enforce your trademarks; don't  
10 you?

11 A Yes.

12 Q And how do you do that?

13 A Once we find out who it is, if they're infringing or  
14 potentially going to infringe, then we send them an  
15 attorney's letter.

16 Q And how do you identify the infringers or potential  
17 infringers?

18 A We have a trademark watch.

19 Q Would you consider someone that sells material -- your  
20 material handling equipment an infringer if they used  
21 the -- the word -- the word mark Grizzly in association  
22 with those products?

23 A Depends on the industry they'd be serving.

24 Q Depends on what?

25 A On the industry they would be serving.

1           what he's selling, not necessarily what Pucel is  
2           selling. You're asking him to compare differences based  
3           upon pictures in a catalog.

4           So, with that qualification, you can answer.

5           THE WITNESS: Well, for one thing, none of our  
6           products in our catalog are made by Pucel.

7           Q     (BY MR. MITCHELL) Okay.

8           A     Secondly, most of these look different than what Pucel  
9           is showing in their catalog.

10          Q     Okay. Well, let's talk about the hand trucks, then.

11          A     Uh-huh.

12          Q     Do they have the -- the same functionality? If you  
13                 understand what "functionality" means.

14          A     No.

15          Q     Okay. In other words -- in other words, you can do  
16                 something different with the hand trucks indicated on  
17                 page 153 of O/P-4 that you can't do apparently with the  
18                 hand trucks located on page 49 of O/P-3?

19          A     That is correct.

20          Q     Okay. What is -- what is that difference?

21          A     Again, I don't have the two different trucks next to me,  
22                 in front of me. So, going by pictures, if you look at  
23                 our model number H0762 --

24          Q     Okay. 807 -- oh, H0762, yes.

25          A     Right, it's an appliance hand truck that has a strap on

1           it. It's made specifically for moving appliances.

2       Q     Appliances?

3       A     Yes.

4       Q     What type of appliances?

5       A     Fridges, tall appliances.

6       Q     Fridges, tall appliances; did you say?

7       A     Tall appliances.

8       Q     Like a refrigerator?

9       A     Yes.

10      Q     Okay.

11      A     And you strap the webbing strap around that so that the  
12            thing doesn't tip over. I don't see that in Pucel's  
13            line of items at all.

14      Q     Okay. Any other differences?

15      A     Yes. We have -- H0763 on our page 153 has an elongated  
16            support for the bottom, which allows you to carry much  
17            wider loads, wider boxes.

18      Q     What's that H0763 used for?

19      A     Like I just said, wider boxes.

20      Q     Wider boxes, not refrigerators, though?

21      A     No, because it doesn't have a strap and it's not tall  
22            enough, and I don't see that in Pucel's catalog.

23      Q     Okay. Now, do you consider refrigerators to be  
24            woodworking equipment?

25      A     I would -- I do not.

1 guys get lunch on your time zone.

2 MR. MITCHELL: Oh, yeah, and yours as well.

3 (Discussion off the record.)

4 Q (BY MR. MITCHELL) Now, what kind of -- what kind of  
5 stuff can be moved on your -- on Grizzly Industrial's  
6 platform trucks?

7 A Cartons, wood, tools, machines.

8 Q And the same stuff, the same goods could be moved on  
9 Pucel's equipment as well; could it not?

10 A Yes.

11 Q Pucel's platform trucks on pages 42 and 43 of O/P-3  
12 could be used to handle the needs of woodworkers and  
13 metalworkers; could they not be?

14 A Some of them.

15 Q Are there any of the -- are there any of the platform  
16 trucks of Pucel --

17 A Are you just talking about platform trucks or all the  
18 carts shown?

19 Q Let's just talk about the platform trucks --

20 A Okay.

21 Q -- to keep it straightforward. The platform trucks of  
22 Pucel shown on pages 42 and 43 can be used to serve the  
23 needs of woodworkers and metalworkers; can't they?

24 MR. SCHMIDT: You're asking for his opinion?

25 MR. MITCHELL: Well, I'm asking it as a matter of

1 fact as compared to an opinion.

2 MR. SCHMIDT: Well, if he knows as a fact.

3 Otherwise, if you're asking him to speculate --

4 MR. MITCHELL: I don't want him to speculate.

5 THE WITNESS: Okay. I will not speculate, although I  
6 feel that I answered that question in a different format  
7 just a few questions ago.

8 Q (BY MR. MITCHELL) Are Pucel's platform trucks suitable  
9 for woodworkers and metalworkers?

10 A Depends on the application.

11 Q Are Pucel's platform trucks suitable for some  
12 applications for metalworkers and -- and woodworkers?

13 A Yes.

14 Q And what would those applications be?

15 A Like I mentioned before, carrying trucks, tools, if you  
16 had a bundle of wood to move, if you wanted to move a  
17 machine.

18 Q I draw your attention to -- still on page 53 -- excuse  
19 me, 153 of your -- your Grizzly Industrial catalog,  
20 O/P-4, and do you see the shelf carts on that page?

21 A Yes.

22 Q And do you see the -- I'd like to draw your attention to  
23 the shelf carts on page 38 of O/P-3, the Pucel catalog.

24 A Okay.

25 Q And aren't the shelf carts identical?



1 A No. I said functionality differs --

2 Q What is the functional difference?

3 MR. SCHMIDT: I --

4 A -- based on the -- based on the capacity of the units.

5 THE WITNESS: Did you want to say something?

6 Q (BY MR. MITCHELL) I'm sorry for speaking on top of your  
7 answer.

8 MR. SCHMIDT: I had an objection before. You're  
9 mischaracterizing his testimony.

10 Q (BY MR. MITCHELL) I'm sorry if I mischaracterized your  
11 testimony. I'm not trying to do that. With -- in  
12 regard to the -- the shelf carts and the shelf carts of  
13 Pucel, how are they functionally different?

14 A Well, based on the capacity, they could load the Pucel  
15 carts up with more weight.

16 Q Okay. Can the Pucel shelf carts be used to service  
17 metalworkers and woodworkers?

18 A Which carts are you referring to?

19 Q Well, let's talk about the -- on page 38 of the Pucel  
20 O/P-3. Let's talk about the five-shelf stock cart --

21 A Uh-huh.

22 Q -- at the top there. And the question I have in regard  
23 to that cart is, can it be used to service woodworkers  
24 and metalworkers?

25 A In some cases.

- 1 A In Bellingham, we have a showroom.
- 2 Q Okay. And is the show -- does the showroom double as a
- 3 warehouse as well?
- 4 A Yes.
- 5 Q Okay. And do individuals come into the -- into the
- 6 showroom to make purchases at that facility?
- 7 A Yes.
- 8 Q And what percentage of the sales are accomplished in
- 9 your various showrooms in Bellingham, Pennsylvania and
- 10 Tennessee I guess it is?
- 11 A No, it's Missouri.
- 12 Q Missouri. Okay. Is that question clear to you or no?
- 13 A Yes, it's clear. I'm trying to think of the answer.
- 14 Q Okay.
- 15 A I don't know for sure.
- 16 Q What percentage of your sales is accomplished through
- 17 your -- your on-line site, Grizzly.com?
- 18 A I don't know the exact percentage.
- 19 Q Do you have an estimate of that?
- 20 A Yes.
- 21 Q What is that estimate?
- 22 A Between 20 and 25 percent.
- 23 Q Between 20 and 25 percent is attributable to
- 24 Grizzly.com?
- 25 A Correct.

1 Q And what percentages, you know, on an estimated basis  
2 are attributable to catalog sales?

3 A More than 50 percent.

4 Q And what percentage of your sales are attributable to  
5 shopping at the facilities in the three locations?

6 A I assume you're asking for an estimate.

7 Q Yes.

8 A About 15 to 20 percent.

9 Q Now, as far as your material handling equipment, is  
10 that displayed at your Bellingham facility?

11 A Yes.

12 Q And is the -- is your material handling equipment  
13 displayed at the Pennsylvania facility?

14 A Yes.

15 Q And where in Pennsylvania is that?

16 A Muncy.

17 Q Muncy. Okay. And is your material handling equipment  
18 displayed in Missouri as well?

19 A Yes.

20 Q And is the full array of your material handling  
21 equipment displayed in each of the three locations,  
22 Bellingham, Muncy, and what's the city in Missouri?

23 A Springfield.

24 Q Springfield, is the full array there? Do you  
25 understand --

1           obtained any information about the educational level of  
2           the metalworking customers?

3       A     I'd like to clarify my previous answer.

4       Q     Sure. Go ahead.

5       A     We -- we do or used to send out a card that had that,  
6           asked for customers' demographics. And, for the most  
7           part, people didn't fill out their income or their  
8           educational level.

9       Q     They did not?

10      A     They did not. They just put down the magazines that  
11           they saw us in. And we did get some information from  
12           that, but not a tremendous amount.

13      Q     So you weren't able to discern their educational level?

14      A     No.

15      Q     Were you able to discern their size or is that just  
16           something you learned from being in the business for  
17           some time?

18      A     Again, that's -- that's kind of a question you had asked  
19           earlier on and I'd answered about from the name of the  
20           customer you can tell, you can get an idea --

21      Q     Right.

22      A     -- whether it's a personal purchase or it's a corporate  
23           purchase or a company purchase or whatever.

24      Q     Right. Well, I was asking -- what made me think was,  
25           you said that in connection with the woodworking, there

1 says, "I, Shiraz Balolia, declare," in pertinent part,  
2 "that I believe Grizzly Industrial to be the owner of  
3 the trademark sought to be registered;" and "that to the  
4 best of my knowledge and belief no other person, firm,  
5 corporation, or association has the right to use said  
6 mark in commerce, either in the identical form or in  
7 such near resemblance thereto as may be likely, when  
8 applied to the goods of such other person, to cause  
9 confusion, or to cause mistake, or to deceive."

10 And you read that -- I take it you read that  
11 declaration before you signed this application; did you  
12 not?

13 A Yes, it's boilerplate material.

14 Q But it's important boilerplate material; is it not?

15 A I'm sure it is, otherwise it wouldn't be there.

16 Q Now, you signed this application to register with full  
17 knowledge, did you not, that Pucel used for several  
18 years its trademark in the form of the word "Grizzly"  
19 spelled out and in the form of the grizzly bear symbol  
20 on material handling equipment exactly as described in  
21 this application; isn't that correct?

22 A That is not correct.

23 Q Okay. What part of that is not correct?

24 A Pucel doesn't use Grizzly.com.

25 Q But -- but you did know at the time you signed this that

1 Pucel did use Grizzly, the word "Grizzly" spelled out  
2 for those identical goods; didn't you?

3 A Yes, I did.

4 Q And you did know that Pucel used the bear symbol, the  
5 grizzly bear symbol, that's on the Pucel catalog for  
6 these identical goods; did you not?

7 A Actually, I didn't know if the bear symbol was there as  
8 part of the trademark or not.

9 Q But as far as the word "Grizzly," you did know?

10 A From all recollections, yes.

11 Q Did you consider Grizzly.com to be different somehow  
12 from Grizzly --

13 A Absolutely.

14 Q -- used in connection with those -- those same --

15 A Absolutely.

16 Q Could you explain that to me?

17 A Yes. In the Internet, you can -- Grizzly is a generic  
18 term. Anybody could own Grizzly.com. So you could not  
19 -- we could not force Mr. Diekhans to give up the name  
20 because we had a trademark, nor could have Pucel  
21 Enterprises been able to force this person to give up  
22 this URL because us or them had a trademark on the name  
23 "Grizzly."

24 Q Did someone advise you of that?

25 A There's a lot of case law on this and you can look it up

1           Number O/P -- O/P I guess it is 7.

2   (Exhibit O/P-7 marked.)

3       Q     (BY MR. MITCHELL) Could you please look at that, and  
4           I'll tell you the pertinent part that I'd like you to  
5           look at. The pages are not -- are not numbered, but  
6           it's the portion that begins with the application.

7       A     (Witness reviewing document.)

8       Q     Yeah, I think you're on it right there and it extends  
9           from that page for two pages.

10      A     (Witness reviewing document.) Okay.

11      Q     Okay. Now, you see a description of the goods/services  
12           that were recited in this application; do you not?

13      A     Yes.

14      Q     And the page behind the page you're looking at, that's  
15           your signature; is that not correct?

16      A     Correct.

17      Q     Who prepared this application to register?

18      A     Our attorney.

19      Q     And did you provide him with the description or  
20           identification of the goods?

21      A     Most probably.

22      Q     Is there another person at your company that might have  
23           done that?

24      A     No.

25      Q     In connection with -- and I'm sorry to hop around, but

1 in connection with the Grizzly.com identification of  
2 services, which is back here in O/P-6, and I'll just  
3 hand that to you, in regard to the identification of  
4 services in regard to the Grizzly.com trademark  
5 application to register, which is a long one, did you  
6 provide your attorney with that recitation of services  
7 there?

8 A No.

9 Q Who did?

10 A No one.

11 Q No one did?

12 A No one.

13 Q He did it himself?

14 A He did.

15 Q Okay. For Grizzly.com the attorney did that?

16 A I -- I believe so.

17 Q And that was Mr. Schacht; is that his name?

18 A Yes.

19 Q Okay. For Bear Power, did Mr. Schacht do that as well?

20 A I'm not sure; that's why I answered possibly before  
21 'cause I'm not sure.

22 Q Okay. I didn't catch onto that "possibly." Do you  
23 know, did he have a reference book or a Pucel book to  
24 base that description of services on?

25 A No.



- 1 Q I would like to draw your attention to the Pucel  
2 catalog, O/P-3 again, I think it's underneath there.  
3 Does the Pucel catalog on page 4 indicate storage  
4 cabinets?
- 5 A Yes.
- 6 Q Does the Pucel cab -- Pucel catalog, O/P-3, at page 11  
7 illustrate file cabinets?
- 8 A No.
- 9 Q Does it indicate filing cabinet desk?
- 10 A Yes.
- 11 Q Isn't that synonymous with file cabinets?
- 12 A No.
- 13 Q Does -- does the Pucel cabinet -- Pucel catalog, O/P-3,  
14 at pages 14 through 17 illustrate portable workbenches?
- 15 A No.
- 16 Q Well, what about -- what about page 14 where it says,  
17 "Portable Tool Cabinet Workbenches," isn't that a  
18 workbench?
- 19 A That's a different header than what you mentioned  
20 before. You said portable workbenches and this says,  
21 "Portable Tool Cabinet Workbench."
- 22 Q Okay. In regard to page 21 of O/P-3, does the Pucel  
23 catalog indicate heavy duty tool stands?
- 24 A Yes.
- 25 Q In regard to page 20 of the -- of O/P-3, does the Pucel

1 catalog indicate assembly stools?

2 A No.

3 Q And you're differentiating between -- between the  
4 wording "Low Portable Assembly Stools" and "Assembly  
5 Stools"; is that what I --

6 A That's correct.

7 Q What about the heading on the top that says "Assembly  
8 Stools"?

9 A That's right.

10 Q So it's there?

11 A It's there. I didn't see that portion.

12 Q Okay. And does page 20 also indicate welding benches?

13 A Yes.

14 Q Does page 22 of the Pucel catalog indicate  
15 workbenches?

16 A Yes.

17 Q Does page -- pages 12 and 13 of the Pucel catalog  
18 indicate workbench cabinet units?

19 A You said 12 and 13?

20 Q Yes.

21 A And what was your question?

22 Q Well, workbench cabinet units.

23 A No.

24 Q What about cabinet workbenches?

25 A Yes.

1 Q They -- aren't cabinet workbenches and workbench cabinet  
2 units synonymous?

3 A Can you repeat that, please?

4 Q Aren't cabinet workbenches and -- and workbench cabinet  
5 units synonymous? I mean, it's just a matter of word  
6 order; isn't it?

7 A Could be.

8 Q Does the Pucel catalog at page 26 to 29 indicate work  
9 stations? That was 26 through 29.

10 A No. Only 26 through 27.

11 Q Okay. How about utility tables and carts, does the --  
12 on page 32 of the Pucel catalog, does that indicate  
13 utility tables and carts?

14 A Yes.

15 Q Page 33 of our catalog, the Pucel catalog, indicates  
16 mobile tables and carts; doesn't it?

17 A Yes.

18 Q Page 33 of our catalog indicates hydraulic lift top  
19 tables; doesn't it?

20 A Yes.

21 Q Page 33 also indicates portable writing tables and  
22 carts; doesn't it?

23 A Yes.

24 Q And page 34 indicates box carts? We talked about those  
25 before.

- 1 A Yes.
- 2 Q And page 34 also indicates shop tray trucks; doesn't
- 3 it?
- 4 A Yes.
- 5 Q And page 34 of the Pucel catalog -- catalog illustrates
- 6 and states "Hopper Tables"; correct?
- 7 A Yes.
- 8 Q Now, what is a hopper table?
- 9 A You're asking me?
- 10 Q Yes.
- 11 A It's used in an assembly process.
- 12 Q And what type of process is that?
- 13 A Actually, if you look at your description --
- 14 Q Yeah.
- 15 A -- in the Pucel catalog, it will tell you exactly what a
- 16 hopper table is.
- 17 Q Do woodworkers use this type of device, hopper tables?
- 18 A No.
- 19 Q How about metalworkers, do they use that device?
- 20 A Not -- not normally.
- 21 Q Do you sell that equipment, do you sell hopper tables?
- 22 A No.
- 23 Q Did somebody identify a need for a hopper table to you
- 24 or to your company?
- 25 A They may have.

1 Q Is that why it's listed in the application to register?

2 A Possibly. I don't remember why.

3 Q But you did have a bona fide intent to use Bear Power on  
4 each and every one of that goods listed in the  
5 application to register Bear Power?

6 A As far as I know, the way the trademark registration  
7 works, and you guys, you gentlemen, are much more voiced  
8 in that than I am, when it's an intent to use, it's --  
9 so I've been told, it's almost going with the array of  
10 products. And then when -- when you go in for the final  
11 registration, you can properly identify what it is. So  
12 not all intent to use registrations are actually used,  
13 you know that well.

14 Q Well, I guess one thing I'm getting at, and we're kind  
15 of stuck here on hopper tables, but I think when we go  
16 through the rest of these, if we have to, they're  
17 exactly in the order that they appear in this catalog,  
18 and I just want to know how that -- how that occurred.

19 A Must be a coincidence.

20 Q It's a coincidence that there are probably some -- I  
21 haven't counted these, but I would dare say there's  
22 probably 30 descriptions of material, and those -- and  
23 the descriptions appear substantially in the same order  
24 that they appear in the Pucel-Grizzly catalog. That's  
25 what you're trying to tell me that that's coincidence?

1 A It's also true that we sell the majority of those right  
2 now; not the majority, but many of these items are sold  
3 currently by us. So these products are not exclusive to  
4 Pucel's catalog.

5 Q But what are the -- what are the probabilities, sir,  
6 that they would come out in approximately the same order  
7 that they're set forth in O/P-3, the Pucel catalog, with  
8 virtually the same identification on an item-by-item  
9 basis? I mean, you would have to agree with me, would  
10 you not, that they were copied out of the Pucel manual?

11 A Actually, that's not true.

12 MR. SCHMIDT: Objection, compound.

13 Q (BY MR. MITCHELL) Okay. Well, let's make sure we get  
14 this question straight without any problems. Were -- or  
15 excuse me. Was the description of goods and services as  
16 set forth in the Bear Power application, which is part  
17 of O/P-7, copied from the Pucel manual, O/P-3?

18 A Not that I can recall.

19 Q Is there a chance that some -- someone else in your  
20 employ copied the information from O/P-3 and gave it to  
21 the attorney for preparation of the application?

22 A No.

23 Q You would've been the only person in Grizzly Industrial  
24 to communicate and provide the attorney in this instance  
25 the Bear Power application with the information as far

1 as the identification of the goods and services recited  
2 in that application?

3 A Yes.

4 MR. MITCHELL: I'm not going to take the time to go  
5 through the rest of the -- the rest of the items. I  
6 think it speaks for itself. Can we take a break?

7 THE WITNESS: Sure.

8 (A brief recess was taken.)

9 Q (BY MR. MITCHELL) Your first -- your first sale of  
10 material handling equipment was in '94 or '96. I'm just  
11 trying to reorient myself here. But is it fair to say  
12 that you did not prominently get into the material  
13 handling equipment sales until 1996?

14 MR. SCHMIDT: Objection. Assumes facts not in  
15 evidence.

16 MR. MITCHELL: Well, I'm just trying to --

17 MR. SCHMIDT: There's no foundation that it's  
18 prominent now.

19 MR. MITCHELL: I'm just trying to cut it short, and  
20 let me restate it this way.

21 MR. SCHMIDT: He's testified it's less than a half a  
22 percent of his sales, so --

23 Q (BY MR. MITCHELL) Have you been selling more and more  
24 material handling equipment as time goes on?

25 A I would have to say no.

1 speaking, in your Web site?

2 A You can search our Web site with any name.

3 Q For -- like you could do it for like a lathe --

4 A Yes.

5 Q -- without being in a product class or you could do the  
6 product class itself?

7 A Correct.

8 Q And then get everything underneath it?

9 A Correct.

10 MR. SCHMIDT: When there are no numbers on these  
11 exhibits, --

12 MR. MITCHELL: Yes.

13 MR. SCHMIDT: -- for example Exhibit 16, it's a  
14 printout of the Web site dated 12-15-01, can you make  
15 that connection when you identify the exhibit? Because  
16 we have three or four printouts from the Web site. We  
17 need to distinguish one from the other.

18 MR. MITCHELL: Good idea.

19 Okay. Would you mark this as -- mark this for  
20 identification as O/P-17.

21 (Exhibit O/P-17 marked.)

22 Q (BY MR. MITCHELL) Before you look at that, Mr. Balolia,  
23 have you had any enforcement -- enforcement actions  
24 instituted on your behalf, by "your behalf" I mean  
25 Grizzly Industrial, Inc., in regard to Grizzly.com?



1 A No, not that I recall.

2 Q That you recall?

3 A Uh-huh.

4 Q Now, you've had several other enforcement actions in  
5 regard to your other trademarks; correct?

6 A Yes.

7 Q And I just received this information the day before  
8 yesterday, so I haven't memorized it; but it's been  
9 marked as O/P-17 and I wonder if you could glance at  
10 that.

11 A (Witness reviewing documents.)

12 MR. MITCHELL: What time is it getting to be, Bob?

13 MR. MLAKAR: 3:23.

14 MR. SCHMIDT: It's a group exhibit; is that right?

15 MR. MITCHELL: It's a group exhibit, yes.

16 MR. SCHMIDT: It appears to be various matters that  
17 aren't necessarily related.

18 MR. MITCHELL: Yes. They're all Bates stamped with  
19 your Grizzly numbers, but I'm not sure he's ready.

20 THE WITNESS: (Reviewing documents.) Yes.

21 Q (BY MR. MITCHELL) This one here, the Notice of  
22 Opposition, do you recall that?

23 A Which one is that?

24 Q It's --

25 A The second one?

1 Q (Attorney showing document.) It's captioned Grizzly  
2 Imports, Inc. vs. Berendsen --

3 A What's the Bates number?

4 Q -- Fluid Power.

5 A 08960?

6 Q 08960, yes.

7 A A little bit.

8 Q Where this was apparently an opposition by your company  
9 where you opposed the registration of Grizzly by the  
10 Applicant Berendsen Fluid Power Company for pneumatic  
11 conditioning devices, et cetera, or namely rather. Do  
12 you see that there in paragraph 5 of the opposition  
13 papers?

14 A Yes.

15 Q What was the -- what was -- is this opposition -- has  
16 this opposition been terminated?

17 A Actually, I don't know.

18 Q Now, your registration number 2,166,833 attached to this  
19 Notice of Opposition doesn't appear to say anything  
20 about pneumatic conditioning devices; does it?

21 A No.

22 Q You felt there would be confusion, I take it, though,  
23 between your registration of Grizzly for woodworking and  
24 metalworking machinery and Berendsen's pneumatic  
25 conditioning devices?

1 A Yes.

2 Q And are you familiar with a product known as Grizzly  
3 Glue?

4 A Yes.

5 Q Was that a subject of a lawsuit?

6 A I believe so.

7 Q And what was the outcome of that lawsuit?

8 A If I remember correctly, they decided not to use the  
9 name.

10 Q Did you assert the same registration of -- of Grizzly  
11 registration number 2,166,833 against System Three  
12 Resins and their mark of Grizzly Glue for paintable,  
13 sandable one-part polyurethane glue for wood?

14 A I'm not sure.

15 Q It's in this package where there's a letter from the  
16 law firm of Seed & Berry to a Bruce T. Goto or Gotto of  
17 Graham & James.

18 A What page are you referring to?

19 Q I can just come over there and help you. I'll just show  
20 you this one, because what it might be is, you know,  
21 they might be out of order is what I'm getting at. But  
22 this shows Grizzly Glue and it's 9072 Bates stamp  
23 number. And this shows your registration 2,166,833 and  
24 this shows the complaint where you're invoking  
25 registration number 2,166,833 on Bates stamp 9065.

1 A And the question was?

2 Q And your registration you felt covered the Grizzly Glue  
3 polyurethane glue product; is that correct? Did you  
4 need to see this again?

5 A Yeah, I think I've got it.

6 Q Okay.

7 A (Witness reviewing document.) Yes.

8 Q Do you recall the Saegertown Manufacturing Corporation,  
9 which is apparently referred to in the February 19th,  
10 2001 letter of Mr. Al-Salam, Grizzly Bates stamp 8985?

11 A Yes.

12 Q Where you were asserting your -- the same registration,  
13 2,166,833, Grizzly for woodworking and metalworking  
14 machinery against Grizzly Grip I believe it was?

15 A Where is that reference made? Oh, there it is.

16 Q It's in -- I think it's on -- do you see it there?

17 A Yes.

18 Q The second page. Do you recall that?

19 A Yes.

20 Q Did you feel that the use of Grizzly Grip by Saegertown  
21 Manufacturing Corporation for a hand tool to remove nuts  
22 and bolts was an infringement of your registered mark,  
23 the apostrophe 833 mark?

24 A Yes.

25 Q I direct your attention to another -- another part of

1           that group exhibit, and I think the exhibit number is 17  
2           if I'm not mistaken -- yeah, 17. In particular, the  
3           April 19th, 1999 letter to Lutz File & Tool Company --

4           A     Yes.

5           Q     -- where you asserted the same mark, the 833  
6           registration, against a utility knife apparently bearing  
7           the -- the mark Grizzly Bear.

8           A     Yes.

9           Q     And did you believe that that Grizzly Bear mark  
10          infringed your -- infringed your registration of Grizzly  
11          for woodworking and -- and metalworking machinery?

12          A     Yes.

13          Q     What was the outcome of that dispute; do you know?

14          A     I don't recall completely, but I believe that they  
15          stopped marketing that item.

16          Q     All of these disputes that we're talking about so far in  
17          O/P-17, which is kind of a collection of disputes, you  
18          authorized all these actions or the taking of the  
19          respective actions expressed in these letters,  
20          oppositions and complaints; didn't you?

21          A     I did.

22          Q     One -- one final one was the January 11th, 2000 letter  
23          to Art -- Susan Mizer of Arter & Hadden wherein you were  
24          complaining -- or I should say Mr. Al-Salam was  
25          complaining on your behalf in regard to Grizzly Grease.

1 Do you recall that?

2 A Yes.

3 Q I'm sorry, it was Grease Grizzly.

4 A Yes.

5 Q What was the outcome of that?

6 A We didn't pursue it.

7 Q Beside -- you know, and are there any other enforcement  
8 actions in addition to these that we've talked about  
9 that you know of?

10 A I cannot recall any.

11 Q Would you describe your program of enforcing in  
12 particular -- in particular the registration for Grizzly  
13 that I've mentioned in my questions several times, which  
14 is the 2 -- 2,166,833 registration, as being aggressive?

15 A No.

16 Q Well, how would you describe those enforcement actions,  
17 then?

18 A Logical.

19 Q Okay. Logical in what sense?

20 A If it makes logic, we go after them.

21 Q Now, you feel you have rights that go beyond your  
22 trademark registrations I take it.

23 A Explain that, please.

24 Q Well, you feel that you have trademark rights that go  
25 beyond the literal words of your trademark registration;

1 in particular, the registration that you cited against  
2 all these people, and I'm talking about trademark  
3 registration 2,166,833.

4 A Yes, if it's logical.

5 Q What's your definition of "logical," that it just  
6 contained Grizzly in some case or that you want to push  
7 them out of business?

8 A That's illogical.

9 Q That's illogical?

10 A Yes.

11 Q Well, is it logical that it contains Grizzly in some  
12 sense?

13 A No.

14 Q Well, explain the logic, because I don't understand it.

15 A Well, let's take the case of the pneumatic accessories.

16 Q Sure.

17 A The air filters, et cetera.

18 Q Sure.

19 A We have -- our registration contains compressors --

20 Q Okay.

21 A -- and other tools, and you cannot use air filters  
22 without an air compressor. So it's logical that they  
23 are going to be used together.

24 Q Well, do you think it's logical for Pucel Enterprises  
25 to complain that you're selling material handling

1 equipment under -- under the Grizzly mark in one form or  
2 another given the fact that they have six registrations  
3 of either the -- three registrations of the Grizzly word  
4 mark and three registrations of the bear symbol?

5 A I think I already testified that we're not using the  
6 word "Grizzly" on our material handling products.

7 Q You don't use "Grizzly Industrial" when you ship  
8 material handling products?

9 A We do, but that wasn't your question.

10 Q But you do use "Grizzly Industrial" --

11 A Yes.

12 Q -- on material handling products that you ship; right?

13 A Correct.

14 Q Because I thought you said that you put at least on the  
15 box "Grizzly Industrial" on everything that was shipped  
16 from your facilities.

17 A That's what I had said.

18 Q That's what I thought you said.

19 A But that wasn't what your question was.

20 Q My question was, my question dealt with the same logic  
21 you're using against these people in O/P-17. My  
22 question is, do you not consider Pucel's action to  
23 enforce its Grizzly marks in both the word form and also  
24 in the symbol form against you for your use of Grizzly  
25 Industrial on material handling equipment?



1 A You're asking for my opinion?

2 Q I'm asking for your logic that you just testified  
3 about.

4 A I think it's illogical.

5 Q And could you explain why that's illogical?

6 A Because we're in two separate, completely different  
7 industries.

8 Q And you feel that way even though you testified  
9 previously that many of the products in O/P-3, the Pucel  
10 catalog, could be used by woodworkers and by  
11 metalworkers?

12 MR. SCHMIDT: Can you read that back, please?

13 (Question read by reporter.)

14 MR. SCHMIDT: Objection. Mischaracterizes his  
15 testimony.

16 If you understand the question, you can go ahead and  
17 answer it.

18 THE WITNESS: No, he wants me to suppose and I'm not  
19 going to suppose.

20 MR. MITCHELL: Could I hear that question once again  
21 myself? I kind of lost -- I'm getting tired, so I've  
22 lost track of it myself to tell you the truth. And let  
23 me hear it again and we'll go from there.

24 (Record read by reporter.)

25 Q (BY MR. MITCHELL) Are you just refusing to answer that

1 MR. MITCHELL: Let's mark this for identification as  
2 23. It's somewhat redundant.

3 (Exhibit O/P-23 marked.)

4 Q (BY MR. MITCHELL) I just want that as part of the  
5 record. It's one of your -- the registration that  
6 you've enforced, 2,166,833. There's really no question.  
7 I just want it as part of the record.

8 Now, have you ever been convicted of a felony?

9 A Personally?

10 Q Yes.

11 A No.

12 Q Has your corporation?

13 A No.

14 Q Is there a holding company that owns your corporation?

15 A No.

16 MR. MITCHELL: This I think will be 24.

17 (Exhibit O/P-24 marked.)

18 Q (BY MR. MITCHELL) Do you recall those letters, Mr.  
19 Balolia, O/P-24?

20 A Vaguely.

21 Q Now, as a result of those letters, did you take any  
22 action?

23 A Yeah, we responded to them.

24 Q Other than the response, did you take any action?

25 A Define "action."

1 Q Well, what I'm trying to get at is, is that the letter  
2 from Nicole Vickroy from the law firm of Ulmer & Berne  
3 wrote to you in the year 2000, wrote to you and said,  
4 "Hey," she represents Pucel Enterprises and they have --  
5 they have a complaint in regard to -- to your use of  
6 Grizzly. I mean that's what the letter says; right?

7 MR. SCHMIDT: Well, no. I didn't see the word "Hey"  
8 in the letter anywhere.

9 MR. MITCHELL: Well, maybe "Hey" is missing.

10 Q (BY MR. MITCHELL) But that's the essence of the letter;  
11 is that not correct?

12 MR. SCHMIDT: Objection. The documents don't  
13 necessarily always speak for themselves, but when you're  
14 asking that's what a letter says, I would say the  
15 document speaks for itself. You've marked it as an  
16 exhibit. It says what it says. If you want him to read  
17 it --

18 MR. MITCHELL: Well, let me ask you --

19 MR. SCHMIDT: You're asking him to interpret it for  
20 you.

21 Q (BY MR. MITCHELL) Let me ask you this: Did you take  
22 Ms. Vickroy's letter as a complaint lodged by Pucel?

23 A It is a complaint.

24 Q Okay. And did you take any corrective action in regard  
25 to that letter?

1 A No.

2 Q No?

3 A No.

4 Q Did you take heed of that letter in any way?

5 A Our attorney has responded to that telling them that we  
6 don't believe there's basis for a complaint. That's not  
7 exact words, but something to that effect.

8 Q Well, since the time of Ms. Vickroy's letter of April  
9 11th, 2000, did you expand your business in regard to  
10 sales of material handling equipment under the mark  
11 Grizzly?

12 A I already mentioned to you several times that we do not  
13 put the mark Grizzly on our material handling products.

14 Q Okay. Well, in regard to Grizzly Industrial, did you  
15 expand the business of -- of the -- your material  
16 handling business or your sales of material handling  
17 equipment since she issued that letter?

18 A All of our products have been expanded. Every year we  
19 increase, we add new products.

20 Q And material handling equipment the same, same thing,  
21 you expanded that, too?

22 A Yes.

23 Q Okay.

24 MR. MITCHELL: Let's make this 25 I believe. Let's  
25 just make it a group. Well, I'll tell you what. Let's

1 customers careful in their decision as to purchasing  
2 products?

3 A. Yes, they're very careful. Our average order size is about  
4 \$200 and that's, for a lot of people, a substantial amount  
5 of money. And, again, we sell machinery that goes from \$100  
6 all the way up to \$20,000. They're very careful in what  
7 they buy and quite often will ask for specifications and  
8 more detailed information on our machines before they  
9 purchase.

10 Q. And they -- would they do that on phone orders or online  
11 orders, ask for more information?

12 A. Yes, we actually have -- on the phone orders, we have -- I  
13 think I mentioned this before, too. We have a customer  
14 service line and a toll-free ordering line. The customer  
15 service line is made for asking technical questions before  
16 they purchase something, so they may have -- they may want  
17 to ask for, you know, "This is a three-horsepower motor it  
18 says." You know, "How many amps does it draw? Does it  
19 require 220? Can it be switched to 110?" you know, little  
20 questions like that. And once they're satisfied that this  
21 will work for them, usually they go ahead and place the  
22 order.

23 Q. How many customers do you have?

24 A. We have about 1.5 million customers in our database, and so  
25 I would safely say we have over a million customers.

1 Q. And, again, what percentage of these customers would be  
2 homeowners?

3 A. Between 75 and 80 percent.

4 Q. Now, you said that the average sale was maybe around \$200?

5 A. Yeah; that is correct.

6 Q. These items that cost \$150 to \$20,000, what percentage of  
7 your business is made up of selling things that cost at  
8 least \$150?

9 A. I would say about 85 percent.

10 Q. And you do sell some things for less?

11 A. Oh, yeah. We've got a wheel sander or wide-belt sander,  
12 we've got 20 different sanders and we sell sandpaper for all  
13 of them, so maybe one time a customer will order a machine,  
14 but the next order might be a \$20 order for sandpaper for  
15 that machine, so that brings the average order price down.

16 Q. Would that be typical, if they buy the lower-priced items,  
17 they've already bought the larger-priced item?

18 A. Very typical, yes, they buy accessories from us.

19 Q. How well-known is Grizzly Industrial?

20 A. Extremely well-known.

21 Q. What makes you say that?

22 A. Well, we've been pounding ads out for more than 23 years,  
23 for 23 years, and every publication in the woodworking  
24 business just about has our ad just right smack in the front  
25 of the magazine, a two-page spread usually. Metalworking,

1 think that -- that I'd say it should be filed within 30  
2 days, I hereby expressly agree to any extension, any  
3 extension that Mr. Schmidt requires.

4 MR. SCHMIDT: That's to get everything filed.

5 MR. MITCHELL: Necessary to get everything filed.

6 MR. SCHMIDT: And if there's any delays in transcribing  
7 or reading the transcript or shipping the documents.

8 MR. MITCHELL: Right.

9 MR. SCHMIDT: So thank you.

10 MR. MITCHELL: I thought we had plenty of time and then  
11 we got crossed at the end.

12 MR. SCHMIDT: It's always that way for the last three  
13 days.

14 MR. MITCHELL: Right.

15 MR. SCHMIDT: I think that takes care of all the  
16 business, right?

17 MR. MITCHELL: Yes.

18 MR. SCHMIDT: Anything else?

19 MR. MITCHELL: I don't think so. You want me to close  
20 the door again?

21 MR. SCHMIDT: Yeah. Okay. Back on the record for the  
22 testimony.

23 Q. (BY MR. SCHMIDT) Does the "Grizzly Industrial" company name  
24 appear anywhere on labels or otherwise on any of the  
25 material-handling equipment products that Grizzly Industrial

1 sells?

2 A. It does not.

3 Q. Does the name or term "Grizzly" in combination with any  
4 other words or designs appear anywhere on material-handling  
5 equipment sold by Grizzly Industrial?

6 A. It does not.

7 Q. Has Grizzly Imports or Grizzly Industrial -- well, strike  
8 that.

9 Has Grizzly Imports ever advertised material-handling  
10 equipment in any type of advertisement?

11 A. Not that I recall.

12 Q. Has Grizzly Industrial ever advertised material-handling  
13 equipment in any of its advertisements?

14 A. Not that I recall.

15 Q. From when you first founded Grizzly Imports throughout the  
16 change of name to Grizzly Industrial and up until 2006,  
17 approximately how many orders has your company filled?

18 A. I would say that in the last 23 years since inception, we  
19 have probably shipped more than seven million orders. We're  
20 running at over half a million right now per year, but the  
21 growth is, you know, over the years.

22 Q. Does Grizzly Industrial have customers in all 50 states?

23 A. Yes, it does.

24 Q. And approximately how many customers does Grizzly have in  
25 each state?



1 A. (Witness reviewing documents.) If you look at the same  
2 Exhibit Number 1 on page 187, it's an engine stand at the  
3 bottom center of the -- of the page.

4 Q. (Attorney reviewing documents.)

5 A. And, essentially, it's used in the automotive business for  
6 people that are repairing or replacing engines. You hook  
7 your engine to that and move it for your work. It's a very  
8 specialized stand.

9 Q. What is a grinding stand?

10 A. A grinding stand (reviewing documents). Well, going back to  
11 page 370 that you had -- you had referred to in the same  
12 exhibit, there is an optional stand on that page that can be  
13 used for a bench grinder. It's a Shop Fox brand stand,  
14 which we offer in our catalog.

15 Q. Do you -- do you put the words "grizzly.com" on your  
16 building?

17 A. We do.

18 Q. I'd like to direct your attention to Exhibit 5, please.

19 A. (Witness reviewing documents.)

20 Q. And, in particular, I think it's the -- the fourth page  
21 back, which is page 5 of Exhibit 5.

22 A. Okay.

23 Q. Is that an accurate depiction of how you use "grizzly.com"  
24 on your -- on your building?

25 A. Yes.

1       There's all kinds of fuel surcharges, and so on, and so to  
2       remain within the budget, we -- we've trimmed down a bit.  
3       But it's not -- not a major reduction, it's just a slight  
4       trimming.

5       Q.   Are you reducing the number of catalogs due to the Internet?

6       A.   No.  Our Internet sales are pretty steady.

7       Q.   Do your -- strike that.

8               I believe that you testified that 50 percent of your  
9       sales are from your catalog and from phone calls.

10      A.   Between 50 and 60 percent, correct.

11      Q.   And do those phone calls originate from the Internet or do  
12       they originate from the catalog?

13      A.   They originate from the catalog.

14      Q.   Is your phone number also published as part of your  
15       Internet?

16      A.   It is.

17      Q.   How do you know they come -- how do you know those sales  
18       that are -- originate from the catalog vs. the Internet?

19      A.   Usually, we have a media code.  On each catalog, there's a  
20       number that we put on.  We ask for the media code when the  
21       customer places an order.  We can -- we can tell from the  
22       media code what generated the customer, what prompted the  
23       customer to call.

24      Q.   What is the order size from the well-known customers as set  
25       forth on page 3 of Exhibit 1?  And when I say "order size,"

- 1 the average order size. I forgot to qualify that.
- 2 A. I would say probably 3 to \$400.
- 3 Q. Of those well-known customers identified on page 3 of
- 4 Exhibit 1, I believe you testified they make up five
- 5 percent?
- 6 A. Less than five percent.
- 7 Q. How much less than five percent?
- 8 A. Well, you can call it five percent if you want. It's less
- 9 than five percent. I don't have the exact numbers in front
- 10 of me. It's a small portion of our business.
- 11 Q. And I'm not trying to be difficult, but you said you just
- 12 don't know how much less than five percent. I don't want to
- 13 ask you another question.
- 14 A. I don't have an exact.
- 15 Q. Okay.
- 16 A. You asked me how much less. Well, I don't know whether it's
- 17 3.9, 3.6, 3.5. I do know they're less than five percent.
- 18 Q. Okay. But, beyond that, you can't qualify it --
- 19 A. I can't qualify it --
- 20 Q. -- to be more accurate?
- 21 A. -- to a tenth of a percent to be more accurate.
- 22 Q. Can you qualify it at all to become more accurate? Can you
- 23 say more accurately in any sense is what I'm saying?
- 24 A. I can tell you accurately that it's less than five percent.
- 25 Q. Is it less than four percent?

1 A. No, it's not.

2 Q. The well-known customers set forth and identified on page 3  
3 of Exhibit 1, are they metalworkers?

4 A. They buy anything and everything from us.

5 Q. Are they metalworkers, though, or don't you know? And if  
6 you don't know, I'm not trying to be difficult. I would  
7 just like to know if they are metalworkers or not.

8 A. Well, if I look at invoices, it will tell you what they're  
9 buying, and based on what they're buying exactly to the  
10 product, I would be able to tell you whether they're  
11 metalworkers or not. Since I don't have the invoices in  
12 front of me, I probably won't be able to tell you.

13 Q. Okay. Can you tell us with respect to any of those  
14 customers if they're metalworkers?

15 A. Well, obviously Boeing Aerospace.

16 Q. Okay. Any others that you know for sure are metalworkers?

17 A. I'd say probably Toyota Industrial Sales, but, again, I  
18 don't know what it is they bought, so I couldn't tell you.

19 Q. Can you identify any of those customers that are  
20 woodworkers? And I'm referring to the well-known customers  
21 on page 3 of -- of Exhibit 1.

22 A. Yes, Taylor Guitars is. They bought woodworking products  
23 from us. I know the U.S. Army has bought woodworking  
24 products. I believe MGM Grand has bought woodworking  
25 products from us. Fender Musical Instruments has bought

1       woodworking, Gibson Musical Instruments, Chris Craft Boats.  
2       Those would be the obvious ones. I believe Ryobi,  
3       R-Y-O-B-I.

4   Q.   Is Ryobi a woodworker?

5   A.   Yeah. Well, they're not a woodworker, but they have bought  
6       woodworking products from us.

7   Q.   How do you define in your catalog what is a woodworking  
8       product?

9   A.   Well, if you look at this particular catalog, you will find  
10      that --

11   Q.   Exhibit 1 you're talking about?

12   A.   Exhibit 1, that's correct.

13   Q.   Yeah.

14   A.   You will find that all products prior to page 370, so up to  
15      page 369 would be considered woodworking products, and the  
16      balance would be metalworking, although there is a  
17      sprinkling of different things throughout the catalog that  
18      are just miscellaneous accessories, material-handling  
19      products, and things like that that are in that prior  
20      section.

21        But the metalworking section of our catalog is the back  
22      section and I think you see from page 370 onward relates to  
23      metalworking. So a customer can pretty well, if he's only  
24      interested in metalworking, he can go to the back of our  
25      catalog and order the products. Again, there's items like

1 LEVY - Cross

2 A As best I recall, Joe Schmidt called me and  
3 asked me if I would do this.

4 Q And then did correspondence ensue after  
10:05AM 5 that between you and Mr. Schmidt?

6 A We really spoke on the telephone and maybe  
7 e-mailed just some procedural, you know -- I'm  
8 sending you this or whatever.

9 Q At about what point in time did you receive  
10:05AM 10 the materials listed in the appendix to your report?

11 A Well, it would have been probably at least  
12 maybe a couple of months prior to the date of the  
13 report.

14 Q Sometime within the three- or four-month  
10:05AM 15 time frame?

16 A Yes, right.

17 Q All right. Thank you. Do you have any of  
18 the communications between you and counsel Schmidt  
19 with you today?

10:06AM 20 A No. We mainly just talked on the phone,  
21 and I just sent him the report.

22 Q All right. Thank you. Have you given any  
23 expert opinions in the past having to do with  
24 matters before the Trademark Trial and Appeal Board

1 LEVY - Cross

2 of the United States Patent and Trademark Office?

3 A No.

4 Q No?

10:06AM

5 A No.

6 Q Thank you. Now, are all of the -- I'll  
7 call them physical materials, documents that you  
8 examined in preparation for your report, are they  
9 all listed in the appendix that's attached to your  
10 report?

10:07AM

11 A Yes.

12 Q Was there anything else that you considered  
13 in your report?

14 A Yes.

10:07AM

15 Q First of all, we'll say that it had a  
16 physical form.

17 A Well, only in the sense that when I went to  
18 a store, I tried to look at objects such as are sold  
19 by these people to see what they were talking about.

10:07AM

20 Q So you visited various outlets for --

21 A Yes.

22 Q So you could observe both parties' goods?

23 A Well, as a matter of fact, I had trouble  
24 doing that because these outfits, I have to say

1 LEVY - Cross

2 addendum, and I assume you did not?

3 A Not that I recall.

4 Q Okay. Now, taking a look at your addendum,

10:20AM 5 have you reasonably reviewed the first four items

6 listed there, or maybe we should say the first five?

7 One is an opposition, and three are petitions for

8 cancellation. Have you read those?

9 A As best I recall, I looked at those

10:20AM 10 documents and -- yes, I did.

11 Q All right. Thank you. And did you note

12 the various Pucel United States trademark

13 registrations that were listed in those proceedings?

14 A Well, I probably did, but they don't

10:21AM 15 specifically come to my mind now.

16 Q In other words, it's not something that

17 became embedded in your mind?

18 A No.

19 Q Do you recall that they were all for

10:21AM 20 Grizzly with the recitation in some instances of the  
21 goods involved?

22 A I don't recall specifically now.

23 Q All right. Now, as I recall, those were

24 all listed in the legalese, if you would put it that



1 LEVY - Cross

2 A I have to say it's my impression of those  
3 documents that they were extremely barren relatively  
4 speaking and sort of technical about what it is they  
10:30AM 5 were addressing. As I understood, the issue was one  
6 in which Pucel is protesting Grizzly Industrial's  
7 use of the term Grizzly most specifically --

8 Q Right.

9 A -- and in the way they're doing it.

10:30AM 10 Q At least they're opposing their  
11 registration of the mark?

12 A Right.

13 Q All right. And do you understand that the  
14 ultimate issue that they're to decide is the  
10:31AM 15 question of the likelihood of confusion between the  
16 two marks as applied to the two goods -- or to the  
17 goods?

18 A Yes. I would assume that's the basic issue  
19 of contention.

10:31AM 20 Q Right. And in deciding that ultimate  
21 issue, if you will, what are some of the main  
22 factors that the TTAB takes into consideration in  
23 making that decision?

24 A Well, I can't say I know that. I don't

1 LEVY - Cross

2 they're objecting. Many of their customers -- I go  
3 on the web. I find their customers. They list  
4 Pucel. They don't say Grizzly even. So Pucel has  
10:40AM 5 not put forth Grizzly the way Grizzly Industrial has  
6 and created their identity. And Pucel has created  
7 its own identity, Pucel especially. So they have  
8 something called Grizzly as well, and so okay, now  
9 and then it's attached on there, dash Grizzly or  
10:40AM 10 slash Grizzly. So it's clearly subsidiary in their  
11 own minds or was.

12 Now another Grizzly turns up, which turned  
13 up years and years ago apparently, and created a  
14 much more visible identity. So that's my position.

10:40AM 15 Q Well, then as I understand your position,  
16 would I be correct in saying that the mark Grizzly  
17 with respect to Pucel is not a strong mark?

18 A Comparatively speaking not. Maybe -- I  
19 wouldn't say it's necessarily weak in its own  
10:41AM 20 market, but it's a wholesale market primarily for  
21 the kinds of goods that they emphasize.

22 Q So it could be strong also?

23 A Could be strong there.

24 Q All right.

1 LEVY - Cross

2 A In a broad category, industrial type goods  
3 or something or other like that, there does seem to  
4 be, but the specific lines seem to differ  
10:42AM 5 substantially.

6 Q All right. Now, is it fair to say that in  
7 reviewing your report, that it is primarily directed  
8 to difference in the trade channels of the  
9 respective parties' goods?

10:42AM 10 A Well, I tried to bring out that it's an  
11 integration, that it's a complex. This is what I  
12 devoted my career to studying is that complexity  
13 that creates identity in the marketplace, and they  
14 have different identities.

10:43AM 15 Q All right. And so would you, therefore,  
16 say they have different trade channels?

17 A Primarily, yes, they do.

18 Q Do they have some similar trade channels?

19 A You know, that may exist, but primarily,  
10:43AM 20 no.

21 Q All right. You think the Grizzly mark as  
22 used by Grizzly Industrial is famous?

23 A Well, how famous? Their customers seem to  
24 know them well --

# **Grizzly Industrial**®

*Purveyors of Pine Machinery*

**WOODWORKING & METALWORKING**

**2002**

Pucel Enterprises, Inc. v. Grizzly Industrial, Inc.-  
Opposition No. 91123506, Cancellation Nos.  
92031984, 92032024, 92032025

GRIZZLY INDUSTRIAL TRIAL EX. NO. 1

GRIZC-04222

# LETTER FROM THE PRESIDENT

Dear Fellow Workshop Owners,

2001 was another exciting year for us as we opened our new 230,000 sq. ft. facility in Muncy, Pennsylvania. This brings our total space to a whopping 830,000 sq. ft., packed to the rafters with tools!

We continue to grow in leaps and bounds and while the economy was slowing down last year, we experienced double digit growth due to the excellent value that we provide. Currently we have nine engineers at our Taiwan office (on our payroll) and these engineers have one simple goal - to make Grizzly machines the best and most flawless ones on the market. Every part is inspected before it even makes it to the assembly line. Quite often, I get angry faxes from the factory bosses (many of whom are personal friends) complaining about how picky our engineers are. I tell them to quit complaining as our engineers are actually doing them a favor!

Our machines are widely recognized by numerous magazines during comparative tests and have won many awards. A recent comparative jointer test done in Wood magazine showed our jointer to be the best with excellent table flatness. This is because our tables are precision ground in-house at our partner factory in Taiwan (plus the fact that our engineers are each walking around with a nasty "stick" - a Starrett® straight edge!). I, personally, am a serious user of Grizzly machines and make a menacing critic. I recently completed a very complex acoustic guitar (pictured here), my manager of quality control is building a plane and several of our technical writers and engineers are serious and expert users of Grizzly machines. We are passionate about machinery and tools and are constantly listening to our customers about what they want.

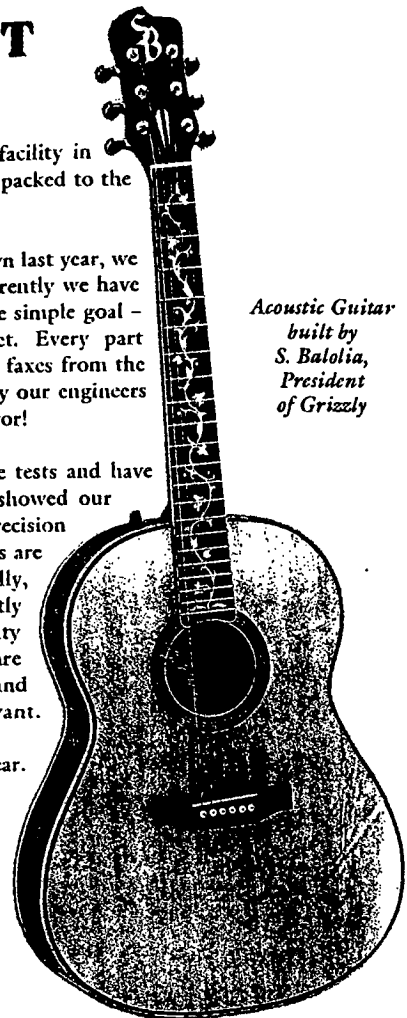
"Thank you" to all of our faithful customers who keep coming back year after year. We will not let you down.

Sincerely,

*S. Balolia*

S. Balolia  
President

GRIZC-04223



Acoustic Guitar  
built by  
S. Balolia,  
President  
of Grizzly

## PRESIDENT'S INCREDIBLE SPECIALS

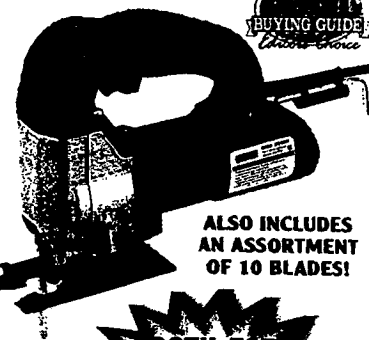
### VARIABLE SPEED JIG SAW G8994Z

A powerful saw to do those heavy-duty contour cutting jobs! Variable speeds up to 3100 SPM. Has four settings of blade orbit for cutting into different types of materials. Footplate can be angled for bevel cuts. Includes blade change and footplate adjustment tools. Uses Tang Shank style blades.

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Great for hobby and craft projects, this 52-piece Razor Knife Set includes five different blade holders, two awl holders, 33 razor-sharp blade assortment, 6 awl points, instant glue and a sharpening stone - all neatly organized in a handy case.

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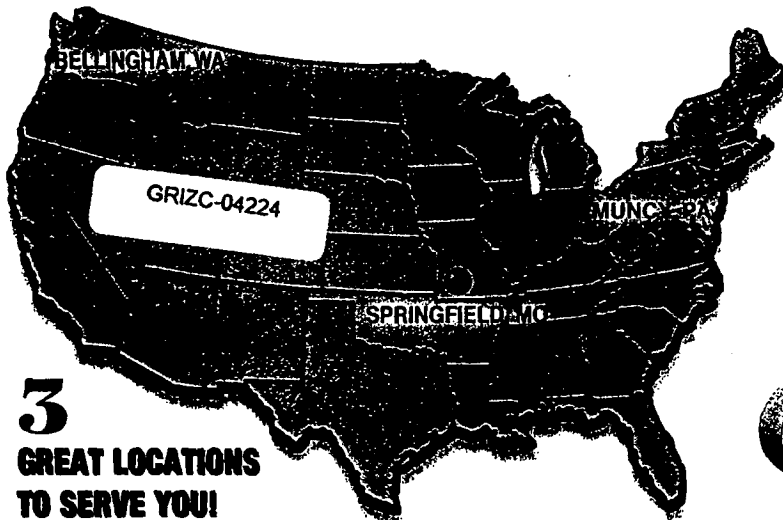
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**MODEL  
H2668**

**BOTH FOR  
ONLY \$9<sup>95</sup>**

FOR MORE INFORMATION ON THESE PRESIDENT'S SPECIALS, SEE PAGES 266 AND 271.

# GRIZZLY INDUSTRIAL, INC.



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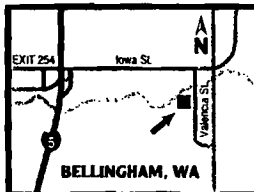
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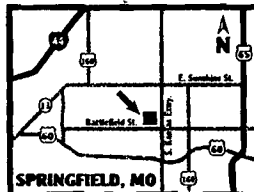
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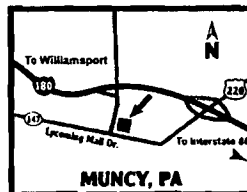
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## A SAMPLING OF OUR CUSTOMERS

Our customers range from the small home shop tool lovers to thousands of schools, hospitals and large industrial users. Listed below are some of the more known entities that purchase from Grizzly:

ABC TELEVISION NETWORK	FEDERAL BUREAU OF PRISONS	KIMBERLY CLARK CORPORATION	QUAKER OATS COMPANY	TRANE CO.
ALASKAN AIRLINES, INC.	FEDERAL EXPRESS	KRAFT FOODS	RAYTHEON	UNDERWRITERS LABORATORIES, INC.
AT&T	FEDERAL RESERVE BANK OF NY	LAY Z BOY	RICOH ELECTRONICS, INC.	UNION CARBIDE CORP
ATLAS VAN LINES	FENDER MUSICAL INSTRUMENTS	LEARJET, INC.	ROCKWELL AUTOMATION	UNITED AIRLINES
BF GOODRICH	FISHER PRICE, INC.	LOCKHEED MARTIN	RYOBI	UNITED STATES AIR FORCE
BLACK & DECKER	FLEETWOOD MOTOR HOMES	LUCENT TECHNOLOGIES	SANYO MANUFACTURING	UNITED STATES ARMY
BLACK ENTERTAINMENT TELEVISION	FORD MOTOR COMPANY	MGM GRAND HOTEL	SEA RAY BOATS	UNITED STATES NAVY
BOEING AEROSPACE	FRITO LAY, INC.	MARRIOTT HOTELS	SEA WORLD OF FLORIDA	UNIVERSITY OF SO. CALIFORNIA
BRIGGS & STRATTON CORPORATION	GENERAL ELECTRIC COMPANY	MASONITE CORP	SHERWIN WILLIAMS	US COAST GUARD
BRISTOL MYERS	GEORGIA PACIFIC	MASSACHUSETTS INST. OF TECHNOLOGY	SEATTLE TACOMA INT'L AIRPORT	US DEPARTMENT OF AGRICULTURE
CALIFORNIA DEPT. OF FORESTRY	GIBSON MUSICAL INSTRUMENTS	MATTEL, INC.	SHOP VAC	US FOREST SERVICE
CHICAGO TRANSIT AUTHORITY	GOODYEAR TIRE & RUBBER COMPANY	MILLER BREWING COMPANY	SMITHSONIAN INSTITUTION	US POSTAL SERVICE
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DUPONT	HAWAII VOLCANOES NATIONAL PARK	NABISCO	STANFORD UNIVERSITY	WAL-MART STORES
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**Whether you spend \$20.00 or \$20,000.00 with us, you can be assured that the attention to your order and level of service you will receive will be exemplary.**

## CUSTOMER REFERENCE SERVICE

If you are interested in a Grizzly machine, we will provide you with a list of references who have used our equipment. We are proud of the fact that we are the only company in the United States to provide this service. The confidence we have in our equipment is reflected in the references we provide.

**CALL 24 HOURS A DAY FROM ANYWHERE IN THE U.S.A. 1-800-523-4777**

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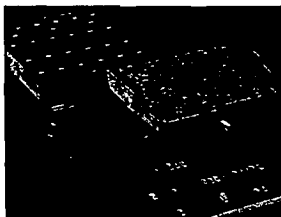
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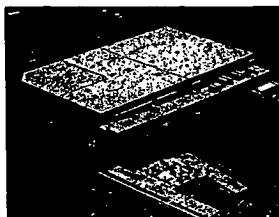
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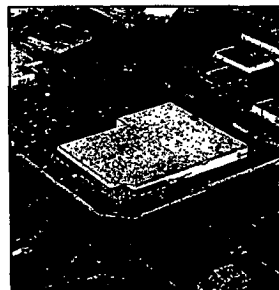
## GRIZZLY INDUSTRIAL SHOWROOMS AND DISTRIBUTION WAREHOUSES



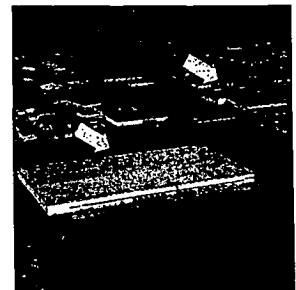
Bellingham, WA  
150,000 SQ. FT.



Muncy, PA  
230,000 SQ. FT.




Springfield, MO  
450,000 SQ. FT.



CALL 24 HOURS A DAY FROM ANYWHERE IN THE U.S.A. 1-800-523-4777





*"I love dealing with Grizzly Industrial. They have excellent products and stand behind everything they sell. Do not hesitate purchasing from them"*

*Dan Haggerty*

GRIZC-04227

Actor Dan Haggerty



Visit "Big Mac", "Tina" and 35 other Grizzlies at the Olympic Game Farm in Sequim, WA

## OUR AFTER SERVICE REMAINS UNBEATABLE!

**All 3 of our locations have complete machine shops with skilled and knowledgeable technicians — ready to help!**

Since its start in 1983, Grizzly Industrial has consistently led the competition in after-sale service. From our knowledgeable service technicians to one of the largest parts departments in the business, Grizzly's commitment to continuing customer service is legendary.

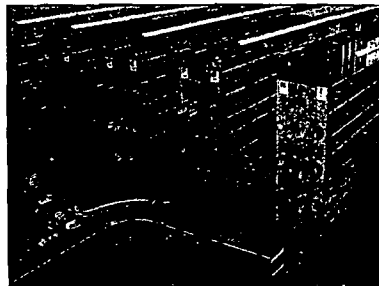
So, in the unlikely event that your Grizzly tool needs repair, help is as close as a phone call away. Often, our trained service technicians are able to walk you through minor repairs and adjustments over the phone. If not, we offer complete service facilities at all locations — so repairs can be completed with as little down-time as possible. If you are planning to visit our service center, call at least 2 weeks before so we can schedule repairs and make sure parts are on hand. For our Bellingham

location call: (360) 647-0801, for our Springfield location call: (417) 887-9119, for our Muncy location call: (517) 546-9663.

As far as we know, we are still the only importers in the United States to have an in-house motor rewinding shop. Plus, we have a huge surface grinder to grind table tops and other cast iron parts that sometimes warp. **That's commitment!**



Trained Grizzly machinists re-grind defective castings to mirror-smooth perfection. (This machine sits idle most of the time!)



Our Parts Department assures you that replacement parts are always on hand. (Over a million parts in stock!)



Grizzly technicians rewinding motors in-house.

Lutherie (musical instrument making) is a profession that requires excellent craftsmanship and a high level of precision. In fact, luthiers are the only woodworkers who measure in one-thousandths of an inch! We are very fortunate to have numerous Grizzly machines placed in all sizes of instrument making companies – from the one man shop that charges \$6,000 for a guitar to the 400 person plant that charges from \$400 to upwards of \$30,000 for a guitar. Good skill and good tools is a combination you need to make good instruments.



WWW.TAYLORGUITAR.COM



WWW.GOODALLGUITARS.COM



WWW.KOOLAUUKULELE.COM

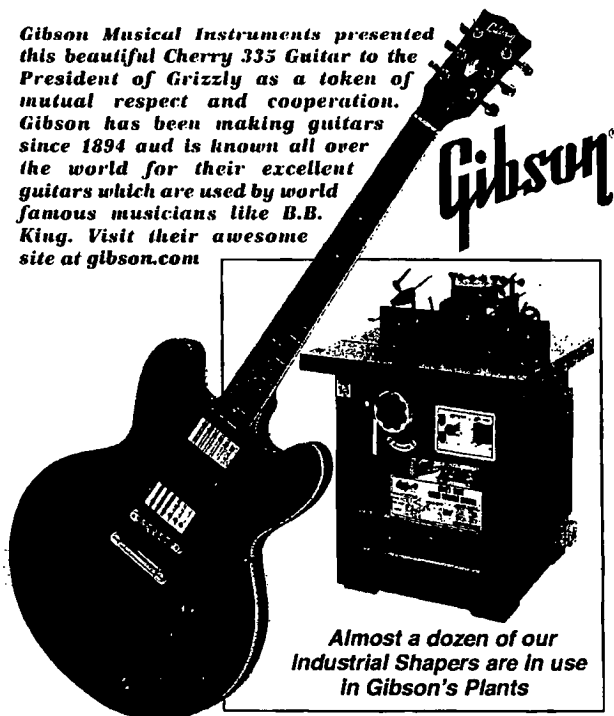
Several of our machines are in use at the state-of-the-art Taylor Guitar factory in California. They have dozens of CNC machines for processes that require multiple parts. Bob Taylor is a very talented luthier and is world renowned for his great guitars!

We designed the new G9962Z and G9962ZX in conjunction with Goodall Guitars which owns several Grizzly machines. They specifically wanted a machine that would be able to sand very short pieces with dead-on accuracy. James Goodall is a custom builder who produces excellent instruments.

Ko'olau makes some of the best looking ukuleles around. They own several Grizzly machines including the G1079 16" Drum Sander which they love. John Kitakis is the owner and his craftsmanship is top notch!

**GRIZZLY INDUSTRIAL**  
IS A MEMBER OF **NAMM**  
National Association of Music Merchants

Gibson Musical Instruments presented this beautiful Cherry 335 Guitar to the President of Grizzly as a token of mutual respect and cooperation. Gibson has been making guitars since 1894 and is known all over the world for their excellent guitars which are used by world famous musicians like B.B. King. Visit their awesome site at [gibson.com](http://gibson.com)



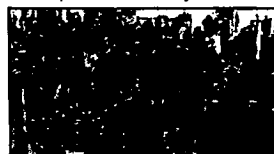
Almost a dozen of our Industrial Shapers are in use in Gibson's Plants

## DON'T MISS OUR TRAFFIC BUSTING TENT SALES!

Held 2 or 3 times a year, over 10,000 people flock to our tent sales to cash in on incredible bargains on samples, scratched and dented, as-is, discontinued and one-of-a-kind items!

Visit our web-site at [grizzly.com](http://grizzly.com) for dates and locations of our tent sales.

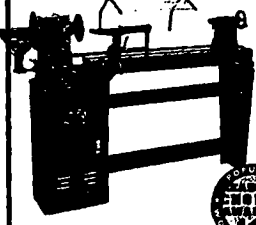







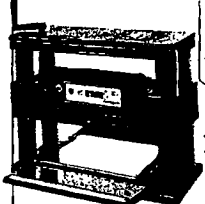

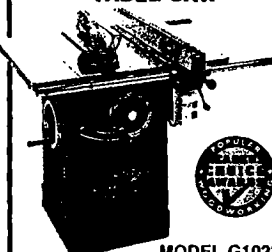




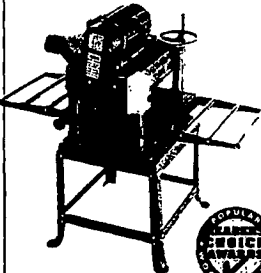

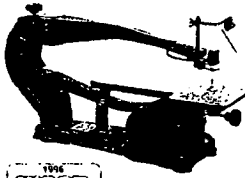

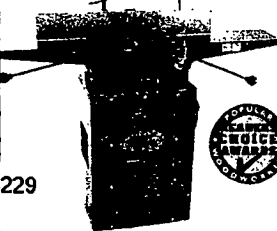


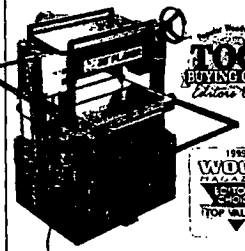



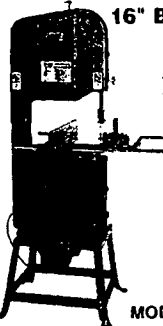


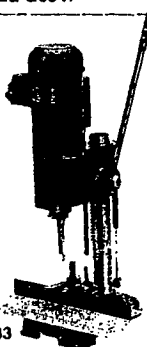




10' Oak Grizzly carved at one of our tent sales by Champion Carver Gary Patterson



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## SOME OF OUR AWARD WINNING MACHINES!

Many woodworking publications rate Grizzly® machines very high in their product comparison reviews.

<b>HEAVY-DUTY WOOD LATHE</b>  <b>MODEL G1495</b> 	<b>3 H.P. DUST COLLECTOR</b>  <b>MODEL G1030</b> 	<b>12 SPEED HEAVY-DUTY 14" FLOOR DRILL PRESS</b>  <b>MODEL G7944</b>   	<b>12" PLANER</b>  <b>MODEL G1017</b>  
<b>10" TILTING ARBOR SUPER HEAVY-DUTY TABLE SAW</b>  <b>MODEL G1023</b> 	<b>OSCILLATING SPINDLE SANDER</b>  <b>MODEL G1071</b> 	<b>1 H.P. DUST COLLECTOR</b>  <b>MODEL G1163</b> 	<b>15" PLANER</b>  <b>MODEL G1021</b> 
<b>22" SCROLL SAW</b>  <b>MODEL G1060</b> 	<b>6" x 47" HEAVY DUTY JOINTER</b>  <b>MODEL G1182</b> 	<b>2" 18 GA. SUPER BRAD NAILER KIT</b> <b>TOP MODEL '100 OR LESS WOOD MAGAZINE JUNE 2000</b>  <b>MODEL G6047</b>	<b>20" PLANER</b>  <b>MODEL G1033</b> 
<b>COMBINATION SANDER 6" x 48" BELT 9" DISC</b>  <b>MODEL G1014Z</b> 	<b>16" BANDSAW</b>  <b>MODEL G1073</b>  	<b>HOLLOW CHISEL MORTISER</b>  <b>MODEL G3183</b>  	<b>2 H.P. DUST COLLECTOR</b>  <b>MODEL G1029</b> 

### IMPORTANT NOTICE!

BELLINGHAM, WA  
SHOWROOM  
WILL BE CLOSED  
DECEMBER 25, 2002  
THROUGH  
JANUARY 1, 2003

Visit our website  
at [grizzly.com](http://grizzly.com)

BELLINGHAM, WA  
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Mon. - Fri. 8:30 - 5:00  
Closed Saturday & Sunday

Muncy (Near Williamsport), PA  
EAST COAST HOURS  
Mon. - Sat. 8:30 - 6:00  
Closed Sunday

SPRINGFIELD, MO  
CENTRAL HOURS  
Mon. - Sat. 8:30 - 6:00  
Closed Sunday

SPRINGFIELD, MO  
& MUNCY, PA  
WILL BE OPEN  
BETWEEN CHRISTMAS  
AND NEW  
YEAR'S - CLOSED  
CHRISTMAS DAY  
AND NEW YEAR'S DAY

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## BEST NEW TOOL - 1999

### 1 H.P. DUST COLLECTOR



(Page 96)

MODEL G8027

## BEST NEW TOOL - 2000

### 10" TABLE SAW

RECOMMENDED BY

**WOOD**  
MAGAZINE

NOVEMBER 2000 ISSUE

"You won't find a more solid performer than the Grizzly G1023S for under \$1000 — You will never get bogged down cutting with this 3 H.P. animal."

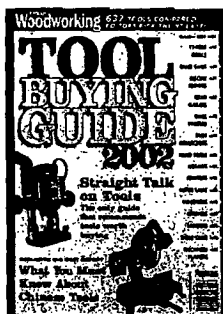
Wood Magazine



(Page 14)

MODEL G1023S

The 2002 Popular Woodworking Tool Buying Guide picked 15 different Grizzly Tools from hundreds that their panel considered. Check out these fine units on the following pages:



MODEL G1052	Bandsaw	Page 52
MODEL G1019	Bandsaw	Page 53
MODEL G7945	Drill Press	Page 69
MODEL G7946	Drill Press	Page 69
MODEL G7943	Drill Press	Page 68
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MODEL G7948	Drill Press	Page 70
MODEL G8027	Dust Collector	Page 96
MODEL G1029	Dust Collector	Page 97
MODEL G1182HW	Jointer	Page 19
MODEL G1018	Jointer	Page 22
MODEL G3183	Mortiser	Page 72
MODEL G1022SM	Tablesaw	Page 11
MODEL G1023S	Tablesaw	Page 14
MODEL G1033	Planer	Page 34

## GRIZZLY CUSTOMERS SPEAK OUT...

We get many unsolicited letters from customers each year complimenting us and our products. We wish we could include all of them, but because of space limitations, here's just a sampling: Thanks guys! We appreciate the letters!

"I like the way Grizzly does business. For years I have bought a number of power and hand tools from Grizzly and have never been disappointed - high quality and low prices."

Last week, I phoned an order on the 800 line to a sales person in Pennsylvania. The order was shipped from Bellingham the same day and delivered to my home the next day. Now that's SERVICE. Sure beats standing in line in one of the local big box warehouse stores while the cashier waits for a price check."

Robert Lawrence  
Steilacoom, WA

"I have purchased three Grizzly machines: a combination sander, a 6" jointer and the 10" table saw model G1023S. I am impressed with all the machines. I feel the Grizzly table saw G1023S is a tremendous value combining features, quality workmanship and cost into a quality machine. Again, thanks for your fine customer service."

Don Gatton  
Blanding, UT

"Grizzly tools are the best quality at the lowest prices. I have never had a problem from any of my Grizzly tools: table saw, 20" planer and now my new (G1035) shaper. Grizzly's tools are the best. Thanks so much for supplying my shop with quality."

Ron Raney  
Mtn. Home, AR

"Grizzly tools are top-of-the-line. Heavy and dependable, they have never let me down."

Christopher Freed  
Lewistown, PA

"I was told you had top-line tools, now I know it. Thank you! I look forward to ordering from you again soon. I especially like the good selection of carbide and the better blades you offer."

Norbert Turner  
Mauston, WI

"Your tools are very well built. Beautiful table finishes and paint jobs. I see no shortcuts in tool construction. Very satisfied. Thanks for the good price breaks."

James Glidden  
Lawton, MI

"Today I attended a woodworker show in Pittsburgh. I reviewed many manufacturers' products because I'm interested in the future of purchasing more stationary woodworking equipment. Let me just tell you after reviewing price and quality of other manufacturers' products, as soon as I returned home, I got out my Bible called the Grizzly Industrial Woodworking and Metalworking Catalog and want you to know this is the only place I will order from when I make a future purchase. Keep up the good work in providing products that I feel are above the industries standards in price and quality."

John Colpo  
Cheswick, PA

"Greatest store to hit Springfield in years. I go there just to walk around, look, dream and drool."

I got my new bandsaw, un-packaged it, read the instructions, put it together, made all the adjustments and was using it in about 2 hours. The instructions are good, matter-of-fact and several things to do had already been done by the factory. I can't say enough about this place, I love it."

Larry Golden  
Ash Grove, MO GRIZC-04230

"The G1182 jointer is an excellent value for the dollar. I also recently assembled and used the G1029 dust collector. I first used the G1029 with my drill press and was amazed at the efficiency. Not one wood chip hit the floor. Also the difference in sound levels between the G1029 and my old shop-vac is amazing. My hearing may last a bit longer."

I'm very pleased with both machines recently purchased from your Bellingham showroom. Both the sales staff and warehouse staff were helpful and friendly."

Richard King  
Tacoma, WA

CALL 24 HOURS A DAY FROM ANYWHERE IN THE U.S.A. 1-800-523-4777

# WOOD MILL™ - CAN BE USED FOR WOODWORKING & METALWORKING

A major breakthrough for woodworkers!

Being heavily involved in both woodworking and metalworking machinery for over 25 years, I have always had the luxury of having access to my machine shop for doing woodworking projects. The thing that I noticed was the amount of time I spent using my milling machine for slotting, circular cutting, dovetailing or profiling wood pieces that would normally have been very difficult or dangerous to accomplish using normal woodworking machines.

Think about it; almost every woodworking project requires the operator to feed the wood by hand and almost every metalworking project requires the workpiece to be clamped down. How many times have you wished your fingers were farther away from the cutterhead or blade when working on wood? This Mill allows you to control the cut, shape or bore the wood much more safely than if you were using traditional machines.

Wood projects are typically larger than metal projects so this mill had to have a table that would be capable of handling larger wood parts. It also had to have a faster spindle speed to accommodate quick material removal for woodworking and have a variable head ram that could swing out, slide in and out, tilt, etc... and still be able to be used for metalworking. In our tests, everyone that used it was amazed by it. In fact, several people commented "why didn't someone think of this sooner?" If you are a serious woodworker who performs precision and complex work, you will absolutely love this machine!

S. Balolla, President

## SPECIFICATIONS:

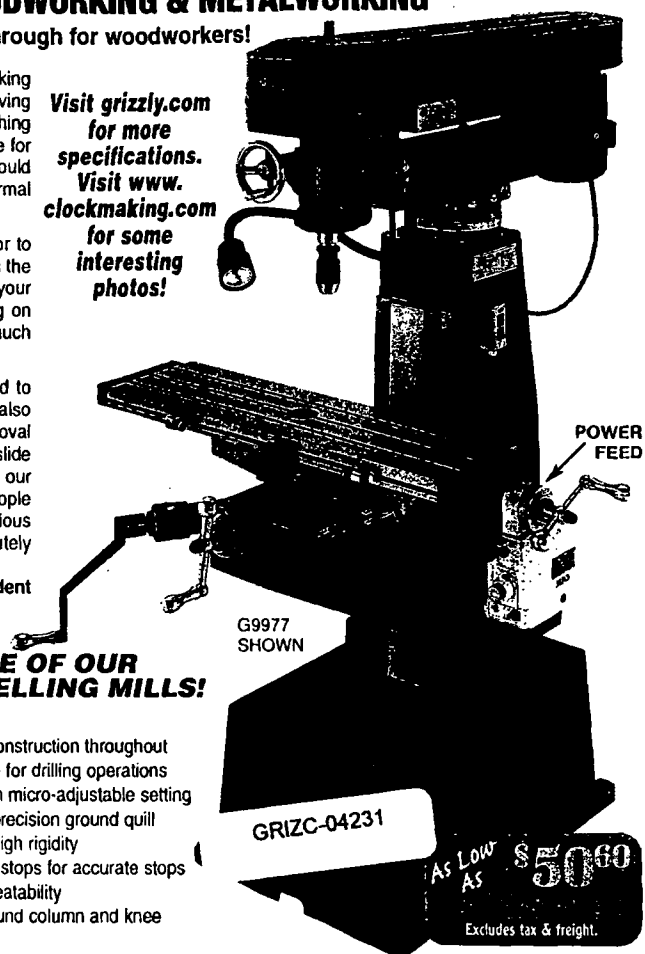
Spindle taper .....	R-8
Spindle travel .....	3 1/2"
Table size .....	10" x 34"
Table width end to end (tip of handwheel to tip of handwheel).....	50"
Table travel (longitudinal).....	18 1/2"
Table travel (cross) .....	10 1/4"
Max. dist. spindle to table .....	19"
Max. dist. spindle to column .....	18 1/2"
Knee travel .....	17"
Machine depth (back of motor to tip of front handwheel).....	55"
Head tilt.....	90° both ways
Head swivel.....	360°
T-slots .....	3 on 2 1/2" centers, 1/2" studs
Range of 9 speeds: .....	440-5000 RPM
Motor.....	1 1/2 HP, Single Phase
Shipping weight approx. ....	1350 lbs.

Visit [grizzly.com](http://grizzly.com)  
for more  
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for some  
interesting  
photos!

## ONE OF OUR BEST SELLING MILLS!

### FEATURES:

- Solid cast iron construction throughout
- 2 1/2" hole in table for drilling operations
- Spindle stop with micro-adjustable setting
- Chrome plated precision ground quill
- Table locks for high rigidity
- Adjustable table stops for accurate stops for cuts and repeatability
- Hardened & ground column and knee slideways
- Table surface hardened and ground
- Heavy-duty saddle supports full width of table
- 1 1/2 HP, single phase, TEFC 3450 RPM motor, 115/230V, 28/14 amps
- Includes: way chip protectors and drawbar

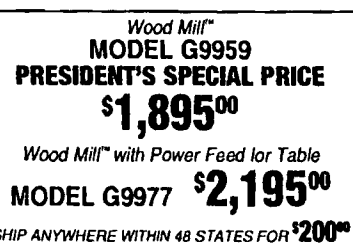
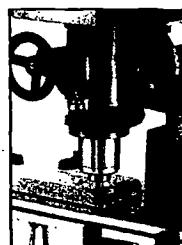
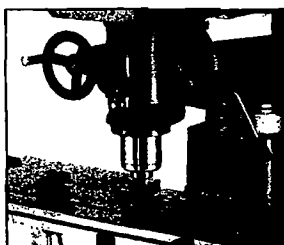
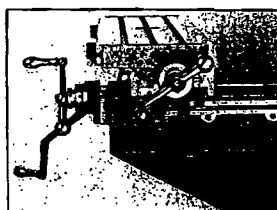
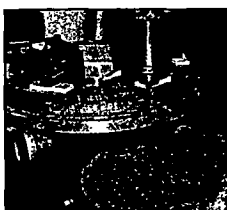
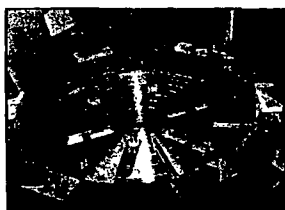


GRIZC-04231

**\$200**  
ANYWHERE IN  
LOWER 48 STATES

As Low As **\$5060**  
Excludes tax & freight.

As Low As **\$5861**  
Excludes tax & freight.



Wood Mill™  
MODEL G9959  
PRESIDENT'S SPECIAL PRICE  
**\$1,895<sup>00</sup>**

Wood Mill™ with Power Feed for Table  
MODEL G9977 **\$2,195<sup>00</sup>**

SHIP ANYWHERE WITHIN 48 STATES FOR **\$200<sup>00</sup>**

# 10" HEAVY-DUTY TABLE SAW

TABLE SAWS

This proven performer is the backbone of our G1022 series table saws. With its full complement of features like precision ground cast iron table with T-slots, miter gauge, front and rear locking micro-adjustable fence, impressive cutting capacities, dado blade compatible and sturdy stand, you can't go wrong. Heavy-gauge steel wings also make this saw perfect for the contractor as well as the home craftsman. And if that's not enough, just look at the price and compare this saw to others in its class!

"I am very pleased with the saw (G1022). It took me a while to assemble it (at 75 it takes a bit longer), but to my amazement, the miter gauge was (is) square and the fence is parallel to the blade — with no adjustments. Thanks for the prompt service and great product."

L.W. "Doc" Lepkowski  
Medford, OR

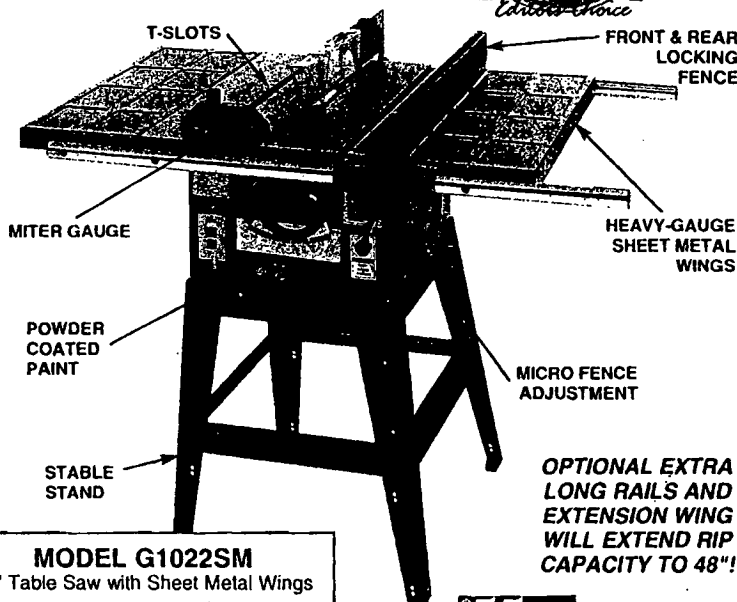
GRIZC-04232

## FEATURES:

- Ball bearing arbor tilts on worm gear mechanism
- Front and rear quick-lock fence with micro-adjustment knob
- Precision ground cast iron table
- Sturdy stand
- Rails are 1 1/2" in diameter
- Standard and dado inserts included

## SPECIFICATIONS:

- Rail dimensions: 44" x 1 1/2"
- Maximum ripping capacity: 24"
- Table size with extension wings: 27 1/2" x 40 1/2"
- Height of saw to table top: 37"
- Arbor: 3/4" x 1 1/4"
- Arbor accepts dado blades
- Cutting capacity at 90°: 3 1/2"
- Cutting capacity at 45°: 2 1/4"
- Motor: 1 1/2 H.P., Single Phase, 110/220V. Pre-wired to 110V
- Shipping weight approx.: 220 lbs.



**MODEL G1022SM**  
10" Table Saw with Sheet Metal Wings  
~~\$375<sup>00</sup>~~ **ONLY \$325<sup>00</sup>**

**\$55**  
ANYWHERE IN LOWER 48 STATES

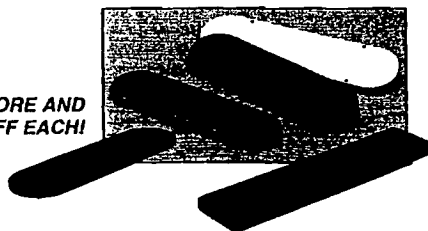
OPTIONAL EXTRA LONG RAILS AND EXTENSION WING WILL EXTEND RIP CAPACITY TO 48"!

## ZERO CLEARANCE TABLE SAW INSERTS

Special phenolic composition out-lasts and out-performs wood, foam and plastic. Supports work right up to the blade. Sized to fit Grizzly saws and most other brands as well. Each is fully adjustable with leveling screws. Grizzly inserts are safety orange, others are random colors.



BUY 3 OR MORE AND  
TAKE \$3<sup>00</sup> OFF EACH!



MODEL H0627	G1022 - 13 1/2" x 3 1/4"	ONLY \$22 <sup>95</sup>
MODEL H0628	G1023 - 13 1/2" x 3 1/4"	ONLY \$22 <sup>95</sup>
MODEL H4231	G1023SL - 13 1/2" x 3 1/4"	ONLY \$22 <sup>95</sup>
MODEL H0629	G5959 - 14 1/2" x 3 1/4"	ONLY \$29 <sup>95</sup>
MODEL H0630	For Delta - 13 1/2" x 3 1/4"	ONLY \$19 <sup>95</sup>
MODEL H0631	For Craftsman	ONLY \$19 <sup>95</sup>
MODEL H0632	For Jet - 12 1/2" x 3 1/2"	ONLY \$19 <sup>95</sup>
MODEL H0633	For Powermatic - 14 1/2" x 4"	ONLY \$19 <sup>95</sup>

## — OPTIONAL ACCESSORIES —



### HEAVY-DUTY SHOP FOX® MOBILE BASE

This patented base is the most stable on the market with outrigger type supports. Adjusts from 19" x 20 1/2" to 29 1/2" x 29 1/2". 600 lbs. capacity.

MODEL G7314 ONLY \$69<sup>95</sup>



### 1 1/2 H.P. MOTOR

Fits our G1059, G1022SM, G1022ZF, G1022ZFX, G1022Z & most other contractor type saws  
NEMA 56 Style Frame

MODEL G5009 ONLY \$149<sup>95</sup>



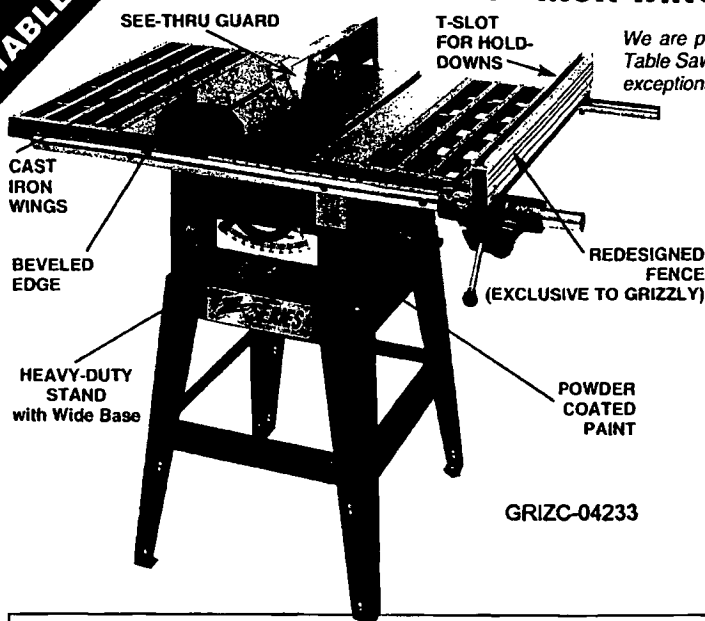
**DUST EXHAUST HOOD —14" x 14"**  
MODEL G2480 ONLY \$11<sup>95</sup>

**CAST IRON EXTENSION WING**  
MODEL G1193 ONLY \$49<sup>95</sup>  
**70" LONG EXTENSION RAILS**  
MODEL G1187 PAIR \$59<sup>95</sup>

CALL 24 HOURS A DAY FROM ANYWHERE IN THE U.S.A. 1-800-523-4777

**TABLE SAWS**

## 10" HEAVY-DUTY TABLE SAW WITH CAST IRON WINGS!



We are proud to offer our Z Series version of our standard G1022 Table Saw. This saw has all the extras of saws costing a lot more. An exceptional value.

### AN UNSOLICITED LETTER FROM ONE OF OUR CUSTOMERS:

"Excellent quality tool (G1022Z) and a very good value compared to retail competition. Impressive fit and finish with easy assembly. Clear manual with good photos. Simple to assemble this large stationary tool."

Drew Kent  
Evanston, IL



GRIZZ-04233

**MODEL G1022Z** 10" Table Saw complete with 1½ H.P. TEFC motor, 2 cast iron extension wings, sturdy stand, blade guard and two blade inserts (one for the regular blade and one for the dado set). Miter gauge included.

~~\$449<sup>00</sup>~~ **ONLY \$425<sup>00</sup>**



#### FEATURES:

- All ball bearing arbor tilts using worm gear mechanism
- Heavy-duty rip fence with micro-adjustment knob
- Quick-lock fence locks both front and back when lever is pressed down
- Cast iron table with heavy-duty cast iron extensions
- Self-tensioning belt drive
- Extra cast iron extension wings can be added with 70" extension rails for ripping to 48" width
- Rails are 1½" in diameter
- Blade tilts 0-45° right

#### SPECIFICATIONS:

- Rail length: 44"
- Table size with extension wings: 27½" x 40½"
- Height of table top: 37"
- Arbor: ½" x 1¼"
- Cutting capacity at 90°: 3½"
- Cutting capacity at 45°: 2½"
- Motor: 1½ H.P., Single Phase, 110/220V Pre-wired to 110V
- Shipping weight approx.: 250 lbs.

#### ZERO CLEARANCE INSERT

Made especially for our G1022 series table saws. Height is easily adjustable. Special phenolic material.

**MODEL H0627 ONLY \$22<sup>95</sup> EACH**  
THREE OR MORE \$19<sup>95</sup> EACH

#### OUR TABLE HAS T-SLOTS FOR MITER GAUGE!

PRECISION-GROUND TABLE TOP & WINGS FOR A MIRROR-LIKE FINISH AND THE ULTIMATE IN ACCURACY!

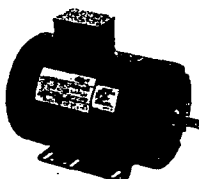
**THIS MACHINE IS BELT DRIVEN FROM THE MOTOR TO THE ARBOR. MOTOR SITS ON THE OUTSIDE, AT THE BACK, AND WILL NOT GET IN YOUR WAY.**

### — OPTIONAL ACCESSORIES —

#### DUST EXHAUST HOOD —

14" x 14"  
This hood can be easily adapted to mount under the blade.

**MODEL G2480 ONLY \$11<sup>95</sup>**



**1½ H.P. USA MOTOR  
MODEL G5009  
ONLY \$149<sup>95</sup>**  
**2 H.P. USA MOTOR  
MODEL G4192  
ONLY \$199<sup>95</sup>**

#### CAST IRON EXTENSION WING

9½" W x 27½" L

**MODEL G1193 ONLY \$49<sup>95</sup>**

Please note: Adding an additional wing to side will require drilling additional holes and adding a support to the floor. Fits all G1022 type saws.

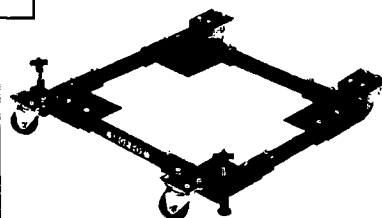
**BLADES & DADO SETS  
SEE PAGES  
189-190**



#### 70" LONG EXTENSION RAILS

**MODEL G1187 PAIR \$59<sup>95</sup>**

Please note: Long rails are not gear cut for micro-adjustment. Fits G1022/G1022Z.



#### HEAVY-DUTY SHOP FOX® MOBILE BASE

This patented base is the most stable on the market with outrigger type supports. Adjusts from 19" x 20½" to 29½" x 29½". 600 lbs. capacity.

**MODEL G7314 ONLY \$69<sup>95</sup>**



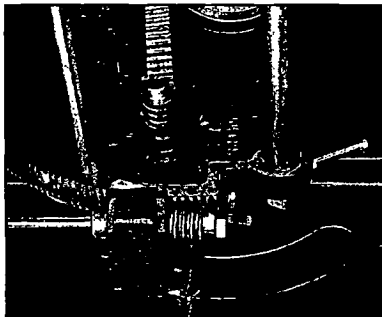
## 10" HEAVY-DUTY TABLE SAW WITH CAST IRON WINGS!

TABLE SAWS

We pulled out all the stops when we decided to make the ultimate contractor's table saw. You'll appreciate standard features like the gutsy 1½ H.P. or 2 H.P. motor with machined steel pulleys and Power Twist® drive belt, built-in 4" dust port, 10' power cord, front rail mounted switch and fully adjustable miter gauge, not to mention the precision Shop Fox® Fence. And best of all, you get all this for one low price!

### FEATURES:

- Precision ground table & wings
- Wide & stable stand
- ¾" x 1½" ball bearing arbor
- 37" table height
- 3½" cutting capacity at 90°, 2½" at 45°
- See thru blade guard
- Table has beveled edge & T-slots
- 27½" x 40½" table size
- 1½ H.P. or 2 H.P. motor
- Precision Shop Fox® Fence
- Long Rails available on page 219
- Cast iron miter gauge adjusts to eliminate any play in miter slot
- Machined steel pulleys
- Power Twist® drive belt
- 4" dust port
- 25" rip capacity
- Smoother action handwheels
- Shipping weight approx.: 290 lbs.



WORM GEAR MECHANISM  
& CAST IRON TRUNNIONS

FULLY ADJUSTABLE  
CAST IRON MITER GAUGE

RAIL  
MOUNTED  
SWITCH

POWDER  
COATED  
PAINT

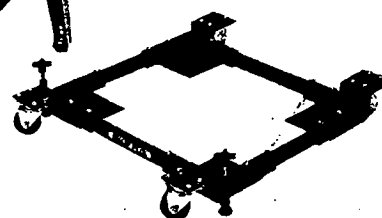
HEAVY-DUTY  
STAND WITH  
WIDE BASE

SHOP FOX®  
FENCE

CAST-IRON  
WINGS



SEE SAW BLADES  
ON PAGES 189-190



HEAVY-DUTY SHOP FOX®  
MOBILE BASE

This patented base is the most stable on the market with outrigger type supports. Adjusts from 19" x 20½" to 29½" x 29½". 600 lbs. capacity.

MODEL G7314 ONLY \$69<sup>95</sup>

MODEL G1022ZF 10"  
HEAVY-DUTY TABLE SAW  
WITH 1½ H.P. MOTOR  
ONLY \$575<sup>00</sup>



**New!** MODEL G1022PRO 10"  
HEAVY-DUTY TABLE SAW  
WITH 2 H.P. MOTOR &  
SHOP FOX® CLASSIC FENCE

See Page 219 For Shop Fox® Classic Fence

ONLY \$550<sup>00</sup>



MODEL G1022ZFX  
WITH 2 H.P. MOTOR  
ONLY \$625<sup>00</sup>



### — OPTIONAL ACCESSORIES —



GRIZC-04234

### HIGH DENSITY WHITE POLYETHELENE (HDPE)



HDPE is the material of choice for lining saw fences, making jigs, router table accessories etc... We offer several of the most popular sizes for a multitude of uses.

MODEL H2883	¾" x 4" W x 36" L	ONLY \$9 <sup>95</sup>
MODEL H2884	½" x 4" W x 36" L	ONLY \$13 <sup>95</sup>
MODEL H2885	½" x 8" W x 36" L	ONLY \$24 <sup>95</sup>
MODEL H2886	½" x 12" W x 36" L	ONLY \$36 <sup>95</sup>

CALL 24 HOURS A DAY FROM ANYWHERE IN THE U.S.A. 1-800-523-4777

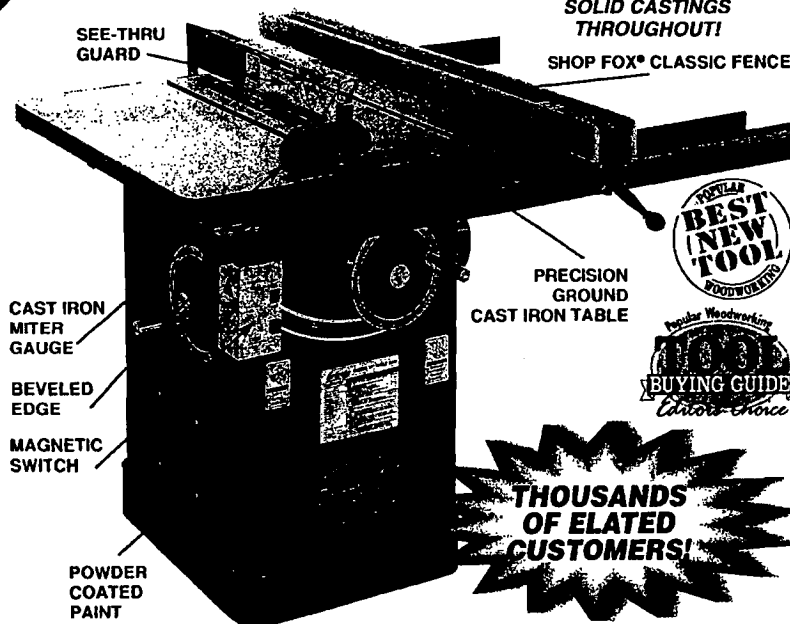


**TABLE SAWS**

## 10" TILTING ARBOR SUPER HEAVY-DUTY TABLE SAW

GRIZC-04235

We have taken our standard G1023 and added the incredible Shop Fox® Classic Fence to it, making the new G1023S saw absolutely unbeatable. There is no saw on the market under \$1200 that can hold a candle to this one!



**SHOP FOX®  
CLASSIC FENCE  
NOW INCLUDED  
AS STANDARD  
EQUIPMENT!**  
(Similar fences  
sell for up  
to \$300 - elsewhere!)



### FEATURES:

- 3 H.P. single-phase, 220V motor
- Solid cast iron table is first heat treated to remove warpage, then milled perfectly flat and ground to a mirror-like finish
- Table has T-slots so your miter gauge will not fall off the table when retracted
- Table size (with 2 solid extension wings attached) is 36 1/4" x 27 1/8"
- Extra-large handwheels are the heaviest in the industry and really ease arbor movement
- Cutting capacity: 8" left and 25" right of blade
- 3/4" diameter arbor is long enough to accept dado blades up to 1 3/4"
- One-piece steel cabinet-type stand
- Magnetic safety switch is standard and protects the motor and operator
- All sealed ball bearing construction
- Shipping weight approx. 360 lbs.

**MODEL G1023S** Complete with 3 H.P., 220 Volt, TEFC motor, 2 cast iron extension wings, blade guard, two blade inserts (1 for the regular blade and 1 for the dado set), heavy-duty miter gauge and Shop Fox® Classic Fence!

**SPECIAL \$895<sup>00</sup> \$795<sup>00</sup>**



### ZERO CLEARANCE INSERT

Made especially for our G1023 series table saws. Height is easily adjustable. Special phenolic material.

**MODEL H0628**  
ONLY \$22<sup>95</sup> EACH  
THREE OR MORE  
\$19<sup>95</sup> EACH

**110 VOLT MODEL** with 2 H.P., 110 Volt, TEFC Motor  
**MODEL G1023S110**  
ONLY \$795<sup>00</sup>



### OPTIONAL MOTOR COVER

**MODEL G4223 ONLY \$29<sup>95</sup>**

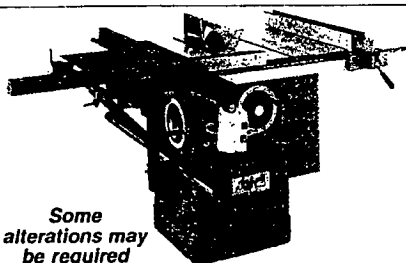
### — OPTIONAL ACCESSORIES —

**7" RAILS WITH LEGS**  
Increase cutting capacity to 52"  
**MODEL G9221 ONLY \$149<sup>00</sup>**  
**44" x 27" EXTENSION TABLE W/LEG KIT**  
**MODEL G9035 ONLY \$109<sup>95</sup>**

### HEAVY-DUTY SHOP FOX® MOBILE BASE

This patented base is the most stable on the market with outrigger type supports. Adjusts from 19" x 20 1/2" to 29 1/2" x 29 1/2". 600 lbs. capacity.

**MODEL G7314 ONLY \$69<sup>95</sup>**



Some  
alterations may  
be required  
for installation.

## SLIDING TABLE FOR TABLE SAWS & SHAPERS

Designed for heavy-duty table saws and shapers, the Sliding Extension Table offers excellent support in shaping and cross-cutting operations. The table glides effortlessly on five ball bearing rollers, attaches directly to your saw or shaper table and can be precision adjusted for height and angle. It features a retractable control handle and a positional fence that can be set for any angle between 0° and 45°. An adjustable

stop attaches to the fence for added precision. Fits our G1023 Series, G1035, G1026 and most other cabinet saws and full size shapers. Weight is 85 lbs.

**MODEL G4227**  
ONLY \$269<sup>95</sup>



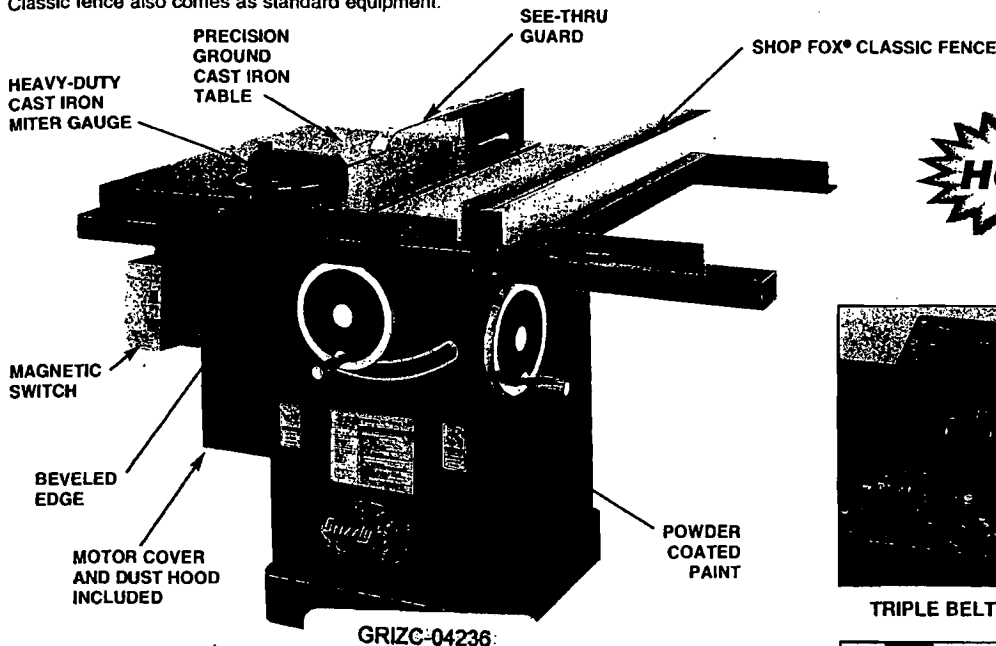
**ORDER ONLINE AT [www.grizzly.com](http://www.grizzly.com)**



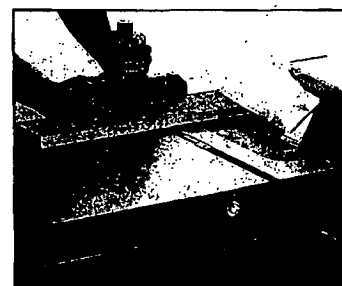
# 10" LEFT-TILTING SUPER HEAVY-DUTY TABLE SAW

TABLE SAWS

The wait is over. Built with the same heavy steel cabinet and cast iron table as the extremely popular Model G1023S, this new model features a left-tilting arbor. Just as with the G1023S, the motor is 3 H.P., single-phase, 220V and has a triple-belt pulley. The blade splitter has been redesigned from that of the G1023S for even easier adjustments, and the accurate and dependable Shop Fox® Classic fence also comes as standard equipment.



TRIPLE BELT DRIVE SYSTEM



EXTRA LARGE CAST IRON  
MITER GAUGE

## FEATURES:

- 3 H.P. single-phase, 220V motor
- Solid-cast iron table is first heat treated to remove warpage, then milled perfectly flat and ground to a mirror-like finish
- Table has T-slots so your miter gauge will not fall off the table when retracted
- Table size (with 2 solid extension wings attached) is 40" x 27"
- Extra-large handwheels are the heaviest in the industry and really ease arbor movement
- Cutting capacity: 8" left and 26" right of blade
- Maximum depth of cut @ 90°: 3"
- Maximum depth of cut @ 45°: 2 1/4"
- 5/8" diameter arbor is long enough to accept dado blades up to 1 1/8"
- One-piece steel cabinet-type stand
- Magnetic safety switch is standard and protects the motor and operator
- All sealed ball bearing construction
- Triple V-belt drive
- Powder coated paint
- Base dimension: 20 1/2" x 20 1/2"
- Shipping weight approx. 430 lbs.

## ZERO CLEARANCE INSERT

Made especially for our G1023SL Table Saw. Height is easily adjustable. Special phenolic material. Available Spring of 2002.

**MODEL H4231**  
ONLY \$22<sup>95</sup> EACH  
THREE OR MORE  
\$19<sup>95</sup> EACH

## MODEL G1023SL 10" LEFT-TILTING SUPER HEAVY-DUTY TABLE SAW

**INTRODUCTORY PRICE \$895<sup>00</sup>**

**\$75**  
ANYWHERE IN  
LOWER 48 STATES

## — OPTIONAL ACCESSORIES —

**7' RAILS WITH LEGS**  
Increase cutting capacity to 52"

**MODEL G9221** ONLY \$149<sup>00</sup>

**44" x 27" EXTENSION TABLE W/LEG KIT**

**MODEL G9035** ONLY \$109<sup>95</sup>

**HEAVY-DUTY  
SHOP FOX® MOBILE BASE**

This patented base is the most stable on the market with outrigger type supports. Adjusts from 19" x 20 1/2" to 29 1/2" x 29 1/2". 600 lbs. capacity.

**MODEL G7314** ONLY \$69<sup>95</sup>



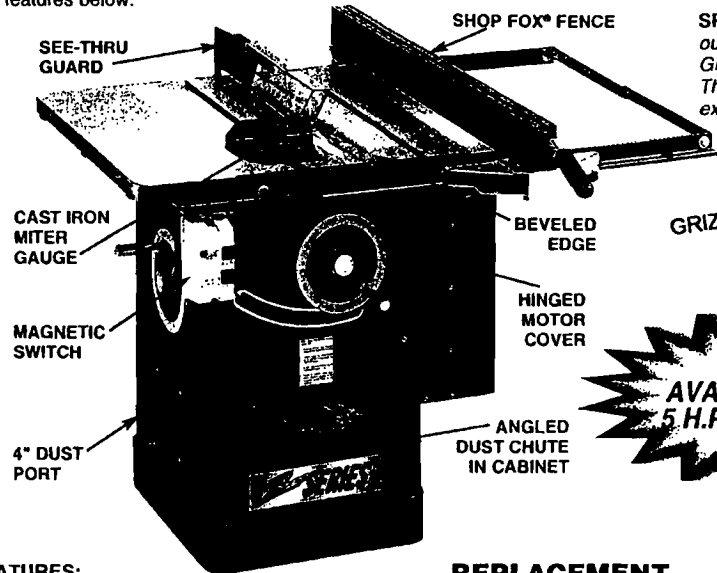
**CALL 24 HOURS A DAY FROM ANYWHERE IN THE U.S.A. 1-800-523-4777**

TABLE SAWS



## THE G1023Z 10" TILTING ARBOR DELUXE HEAVY-DUTY TABLE SAW

We have redefined what a cabinet-type shop saw should be like. This is a top of the line piece of equipment. Our Model Series Table Saw preserves the Grizzly tradition of quality and value, but with some exciting new extras — all standard! Check features below.



**SPECIAL NOTE FROM THE PRESIDENT**  
our incredible connections and buying power, Grizzly can offer a saw like this at such a low price. This saw is custom built from the ground up, exclusive to us — period!" S. B.

GRIZC-04237

E-Z SEE GUARD

**NOW AVAILABLE IN 5 H.P. 3 PHASE**

### FEATURES:

- Powerful 3 H.P., single-phase, 220V motor with triple belt drive
- Solid cast iron table is first heat treated to remove warpage, then milled perfectly flat and finally ground to a mirror-like finish. You just can't get a better finished surface than that!
- Table has T-slots instead of plain slots so your miter gauge will not fall off the table when retracted
- Table size (with 2 solid extension wings attached) is 36 1/4" x 27"
- Extra-large handwheels are the heaviest in the industry and really ease arbor movement
- 3/4" diameter arbor is long enough to accept dado blades up to 1 1/2"
- One-piece steel cabinet-type stand
- Angled dust chute in bottom of stand
- Rail-mounted magnetic safety switch is standard and protects the motor as well as the operator
- All sealed ball bearings are used in both the spindle and the motor
- Beveled table edge
- Enclosed motor cover
- E-Z See Saw Guard
- Rip capacity: 25"
- Includes 2 table inserts (1 for the blade and 1 for the dado set) and heavy-duty cast iron miter gauge
- Shipping weight approx. 460 lbs.

### REPLACEMENT 3 AND 5 H.P. SINGLE PHASE MOTORS AND 5 H.P. THREE PHASE MOTORS

Fits our G1023, G1023Z & G1023ZX Table Saws



3 H.P., Single Phase	
MODEL G5012	ONLY \$249 <sup>95</sup>
5 H.P., Single Phase	
MODEL G5014	5 H.P. ONLY \$349 <sup>95</sup>
5 H.P., Three Phase, 1800 RPM	
MODEL G6246	ONLY \$249 <sup>00</sup>
5 H.P., Three Phase, 3600 RPM	
MODEL G6247	ONLY \$269 <sup>00</sup>

### ZERO CLEARANCE INSERT

Made especially for our G1023 series table saws. Height is easily adjustable. Special phenolic material.

MODEL H0628 ONLY \$22<sup>95</sup> EACH  
THREE OR MORE \$19<sup>95</sup> EACH

### SHOP FOX® FENCE

The G1023Z, G1023ZX and G1023ZSX come standard with the best after fence available. The Shop Fox® Fence is the most accurate fence you can find. It has unprecedented repeatability. The Shop Fox® Fence secures simultaneous ends to lock in place for absolute accuracy.

### OPTIONAL EXTENSION RAIL (RIP TO 49")

MODEL G4725 ONLY

### HEAVY-DUTY SHOP FOX® MOBILE BASE

Adjusts from 19" x 20 1/2" to 29 1/2" x 29 1/2". 600 lb. capacity. MODEL G7314 ONLY

### MODEL G1023Z 3 H.P. SINGLE PHASE

~~\$1095<sup>00</sup>~~ ONLY \$995<sup>00</sup>



### MODEL G1023ZX 5 H.P. SINGLE PHASE

~~\$1195<sup>00</sup>~~ ONLY \$1,095<sup>00</sup>



Excludes tax & freight.

### MODEL G1023ZX3 5 H.P., 3 PHASE

**New!** INTRODUCTORY PRICE \$1,095<sup>00</sup>



Excludes tax & freight.