

## Introducing Dremel's Most-Powerful Cordless Rotary Tool – The Model 8200



The Dremel 8200 variable-speed cordless rotary tool offers the highest performance and versatility of all Dremel cordless models. Its large motor maintains maximum power at all speed levels, and its slim, ergonomic body provides superior control in any position. Powered by 12V<sup>MAX</sup> Lithium-Ion battery technology, the Dremel 8200 has a cutting speed twice that of other cordless models, and is compatible with all Dremel accessories and attachments for maximum versatility.

**Dremel 8200-2/28 Set includes** • Cordless rotary tool with variable speed from 5,000 to 30,000 rpm for maximum control and precision • Separate on/off switch and speed control to retain speed setting for perfect cutting, grinding or buffing every time • Quick collet lock for fast accessory changes • Cool-running ball-bearing construction for smooth and quiet operation • Comfort grip housing for easy handling and best control • Compact and lightweight for less fatigue • Battery fuel gauge lets you know when it's time to recharge • Two high-capacity 12V<sup>MAX</sup> Lithium-Ion batteries for longer run times (holds a charge 6 times longer than NiCad batteries) • One-hour battery charger • Two-year warranty • Cutting guide • Right angle attachment • 28 genuine Dremel accessories • Carrying case.

#84830 Dremel 8200-2/28 Rotary Tool Set ... List \$246.08 ... Our Price **\$149.95**

## Dremel Lithium-Ion Cordless...Lightweight and Powerful

- Integrated thumbwheel speed control.
- Powerful 10.8v lithium-ion battery.
- 5,000 to 35,000 rpm.
- Built-in battery status indicator.
- Soft grip housing.

#83001 Dremel Lithium-Ion Rotary Tool Set includes model 800 rotary tool, 10.8v lithium-ion battery, 3 hour charger, 1/8" collet, carrying case, instruction books, and a starter package of accessories.

List \$133.74

Our Price **\$98.95**



#83002 Extra 10.8v lithium-ion battery for #83001.

List \$56.68 ... Our Price **\$41.95**

*"WOW! Much more powerful than the 'toy' I was using before."*

Laura D., Upper Mt. Bethel, PA

## Dremel Rotary Tool Hobby Set

**Set includes:**

- 120v AC corded Model 3000 rotary tool.
- 5,000 to 32,000 rpm speed control.
- EZ Twist™ nose cap for fast accessory changes.
- Sanding/grinding guide.
- Starter selection of accessories.
- Accessory organizer case.
- Guide book and storage case.

#85177 Dremel Hobby Set (model 3000-1/24)

List \$144.95 ... Our Price **\$86.95**

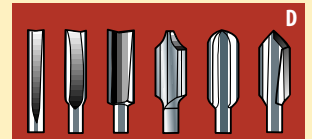
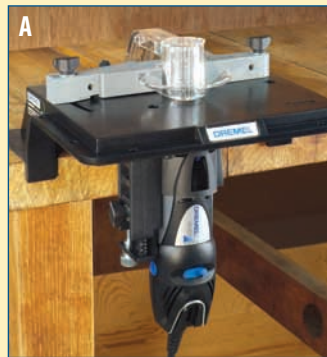


## The Dremel 4000 Combines High Performance with Maximum Versatility



- Strong motor maximizes performance at all speeds.
- Electronic feedback maintains constant speed under varying load.
- Ergonomic body with 360° grip zone optimizes comfort and control.
- Adjustable speed: 5,000 – 35,000 rpm.
- Uses all Dremel accessories and attachments.

#84643 Dremel 4000-3/34 Rotary Tool Set includes rotary tool with 120v AC power cord, detail grip, sanding/grinding guide tool, multipurpose cutting guide tool, 34-piece assortment of accessories, quick-start book and storage case. List \$162.11 ... Our Price **\$119.95**



### A. Shaper Table Makes Decorative Edges, Grooves, Moldings and More!

- Injection molded with router bit guard, adjustable guide fence and depth-of-cut setting
- Fits all Dremel rotary tools except Mini Mite, MultiPro 7700, model 260, and Stylus.\*

\*These models require an adapter available direct from Dremel

#60485 Dremel Shaper Table ... List \$48.85 ... Our Price **\$42.35**

### B. Take the Plunge with this Great Router Attachment

- Use for edging, grooving, freehand routing and circular cuts.
- Quick-release depth stop.
- Spring-loaded rotary tool mounting plate.
- Clear base routing and circular cuts.
- 0 to 5" edge guide
- Cuts circles up to 11" dia.
- Fits Dremel models 275, 285, 300, 395, 398, 800, 3000, 400XPR, 4000 and 8200.

#83152 Dremel Plunge Router Attachment ... List \$40.25 ... Our Price **\$34.95**

### C. Router Bit Set

For putting a decorative edge on wood and for making miniature molding. Use with Dremel rotary tool with shaper or router attachment. 1/8" shank.

#82544 Set of 6 Router Bits **\$45.20**

### D. Standard Router Bits

For routing, inlaying, mortising in wood and other soft materials. 1/8" shank.

#83265 Set of 6 Standard Router Bits **SPECIAL BUY! SAVE 22%! \$43.95**

## 100-piece Accessory Set Saves You Money



1/8" and 3/32" shanks

Includes an assortment of cutters, grinding stones, brushes, mandrels, sanding drums, cut-off wheels, reinforced abrasive disks, sanding bands, buffing tips, wheels and more, all contained in a finished wooden organizer/ storage case.

**#83097** 100-piece Accessory Set Value \$67.40 ... Our Price **\$20.95**

## Emery Cutting Wheels



For cutting off metal rods, tubes, music wire and other hardened steel. 15/16" diameter.

**#38249** 36 pieces/pkg. **\$8.65/pkg.**  
**#14142** Mandrel for above **\$3.10**

## Carbide Router Drills



These unique tools let you cut any shape in wood, plastic, glass, ceramic, aluminum, brass, fiberglass and almost any material except hard steel. Use for enlarging and shaping holes, scroll cutting, smoothing. Cuts its own starting hole and any shape in any direction tool is moved. 1/8" shank fits in any rotary tool. Made of solid carbide for 30 times longer life than steel.

**#60717** 1/16" Cutting Diameter **\$13.60**  
**#60718** 3/32" Cutting Diameter **\$13.60**  
**#60719** 1/8" Cutting Diameter **\$13.60**  
**#60795** Set of all 3. **Save \$3.00!** **\$37.80**

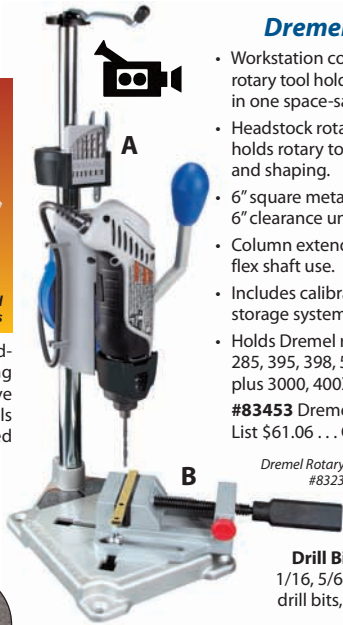
## "Fish-Tail"

### Carbide Router Bits

These long-lasting carbide router bits with special "fish-tail" ends cut smooth, flat bottom holes in wood, hard plastic and fiberglass. 1/8" shanks make them ideal for use in the Dremel router or shaper attachment. Can also be used in a drill press. Diamond pattern milled into side lets you smooth or shape edges of thin wood. 1-1/2" long.



**#80245** 1/32" Cutting Diameter **\$12.95**  
**#80246** 1/16" Cutting Diameter **\$12.95**  
**#80247** 3/32" Cutting Diameter **\$12.95**  
**#80248** 1/8" Cutting Diameter **\$12.95**  
**#80254** Set of all 4. **Save 20%** **\$41.45**



## Dremel Workstation

- Workstation combines a drill press, rotary tool holder and flex shaft machine in one space-saving attachment.
- Headstock rotates for angle drilling; holds rotary tool at angle for sanding and shaping.
- 6" square metal work surface, 4" throat, 6" clearance under collet, slotted table.
- Column extends to 29" high for flex shaft use.
- Includes calibrated depth stop and storage system for accessories.
- Holds Dremel rotary tool models 275, 285, 395, 398, 595, 780, 800, 300 series, plus 3000, 400XPR, 4000 and 8200.

**#83453** Dremel Workstation List \$61.06 ... Our Price **\$49.95**

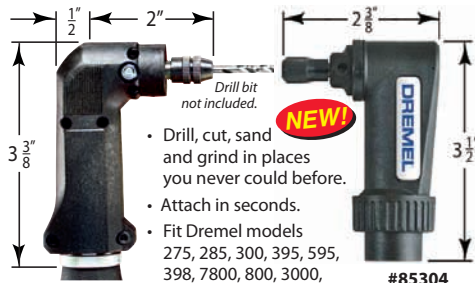
*Dremel Rotary Tool, #82546 Quick-Jaw Vise and #83239 Drill Bit Set are shown attached but are not included.*

### A. #83239 Workstation

**Drill Bit Set** includes 1/32, 3/64, 1/16, 5/64, 3/32, 7/64 and 1/8 inch drill bits, plus plastic index. **\$9.35**

**B. #82546 Quick-Jaw Vise** Spring action spindle latch holds work tightly or releases in an instant. Jaws are 2-3/4" wide x 1" deep. One jaw has horizontal "V" grooves to hold round stock. 2-1/4" capacity. **\$27.80**

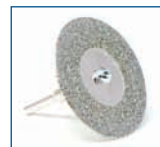
## Right Angle Drives Fit into Tight Spots



**#50357** Micro-Mark Right Angle Drive **\$40.95**

**#85304** Dremel Right Angle Drive **\$34.95**

- Drill, cut, sand and grind in places you never could before.
- Attach in seconds.
- Fit Dremel models 275, 285, 300, 395, 595, 398, 7800, 800, 3000, 400XPR, 4000 and 8200.
- ABS housing, hardened metal gears and lifetime lubricated ball bearings.



**#84611** Diamond Cut-Off Wheel with Mandrel Large 1-5/8" diameter 80 grit diamond-coated cut-off wheel slices through hard materials quickly and easily. Includes special 1/8" shank mandrel for use with all brands of rotary tools and flex shafts, plus foam-lined storage case. **\$6.25**

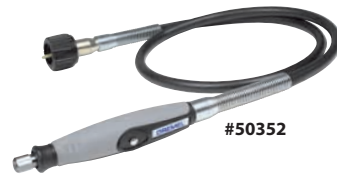
## A New Spin on Rotary Tool Bit Holders



Our rotary bit holder has 114 holes that neatly store your tool bits in full view for easy identification. Ball-bearing base lets you quickly spin to the tool bit you need...saves time and aggravation. Large center well (2-3/4" diameter x 3" deep) holds glue bottles, brushes, files, pliers and more. Keeps your workbench well-organized with little effort. Overall size: 7" diameter x 4" high; holes are 1/8" diameter.

**#84285** Rotary Bit Holder ... List \$20.95 ... Our Price **\$16.75**

## Convert your Rotary Tool into a Flexible Shaft Machine



**#50352**

- Provides fingertip control.
- Screws directly to end of rotary tool.
- 36" long with 1/2" dia. ball-bearing handpiece.
- Fits rotary tool models 275, 300, 375, 395, 595, 398, 7800, 800, 3000, 400XPR, 4000 and 8200.

**#50352** Dremel Flexible Shaft List \$43.12 ... Our Price **\$36.95**

## Flex Shaft Stand

- Adjusts from 24" to 45" high.
- Bolts to any work table.

**#85143** Flex Shaft Stand List \$36.75 ... Our Price **\$26.25**

*Rotary tool and flex shaft not included.*



**#85143**



## Rotary Tool Chucks Make Bit Changes Easy

**#81049**

**#15264**

**#82540**

**#81049** Screw-on 3-jaw Keyless Chuck **\$15.25**

- Fits Dremel 275, 285, 300, 395, 595, Professional (398), 7800, 800, 3000, 400XPR, 4000 and 8200, plus some Craftsman® rotary tools. 1/64" to 1/8" capacity.

**#15264** Universal 3-jaw Chuck **\$18.85**

- 1/8" shank fits all brands. 1/64" to 1/8" capacity.

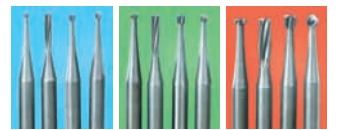
**#82540** Micro Drill Chuck **\$7.30**

- 1/8" shank. #61 (.039") to #80 (.0135") capacity. Closes to 0.

*Use above chucks up to 10,000 rpm.*

## High Speed Steel Micro-Cutters

These small high speed steel engraving cutters are ideal for power engraving intricate details in wood, fiber, plastic and soft metals. 3/32" shanks fit Dremel and other high speed rotary tools. Sold in sets of 4.



**#60474**

**#60475**

**#60476**

**#60474** Approx. 1/32" dia. head **\$9.40**

**#60475** Approx. 3/64" dia. head **\$9.40**

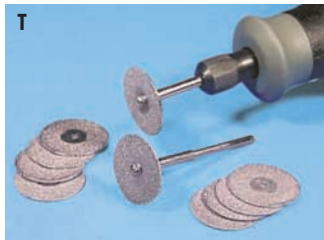
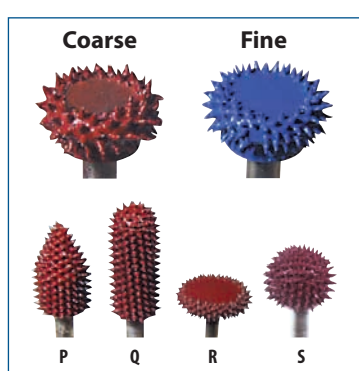
**#60476** Approx. 1/16" dia. head **\$9.40**



**Wide variety of diamond-coated wheels, points, cones and other shapes** in multiple sizes for virtually any miniature grinding task and for tool sharpening. 1/8" shanks fit most rotary tools, flex shafts and mini grinders. For use on hard plastics, wood, glass, ceramics, metal and other hard materials. Includes convenient bit organizer with lid.

**#84582** 50-piece Diamond Burr Set, 240 grit **\$22.95**

**#84583** 50-piece Diamond Burr Set, 120 grit **\$22.95**



## A. – C. Diamond Coated Micro Burrs Smooth and Shape Almost Anything

Burrs coated with real industrial diamonds let you grind, engrave, smooth and shape wood, plastic, metal...even hardened steel and glass. They're also used for sharpening steel and carbide tipped cutting tools. Shanks are 1/8" so they'll fit Dremel and other high speed rotary tools. Sets include a plastic storage case.

- A. **#80919 Standard Set** 20 different shapes with cutting diameters up to 1/8" **\$13.60**
- B. **#82260 Expanded Set** 30 different shapes with cutting diameters up to 3/16" **\$20.95**
- C. **#81094 Jumbo Set** 8 different shapes with cutting diameters up to 1/4" **\$14.95**

## D. High Speed Steel Cutter Set... Contours Wood, Plastic and More

We purchase manufacturer's overstocks of these first quality cutters at a great price and we're passing the savings on to you. 10-piece set includes all shapes shown. Use for shaping, cutting and hollowing soft brass, wood and plastic. 1/8" shank fits Dremel rotary tools, drill presses, etc. Titanium coated for longer life.

**#80470 Cutter Set** ... Value \$52.45 ... Now only **\$36.75**

## E. – K. Solid Carbide Cutters – \$14.25 each

Carbide cutters last up to twenty times longer than steel cutters, so in the long run you'll save money. All cutters have 1/8" shanks to fit Dremel and other rotary tools. Use to shape all materials except hard steel.

Item #	Diameter	Item #	Diameter	Item #	Diameter
E. <b>60672</b>	1/4"	G. <b>60676</b>	1/4"	J. <b>38185</b>	1/8"
F. <b>60674</b>	1/4"	H. <b>60677</b>	1/4"	K. <b>60679</b>	1/16"

## L. Tungsten Carbide Cutters Last Almost Forever

You've never seen anything like these incredible cutters. They're made of virtually indestructible tungsten carbide welded to steel shanks. They'll last for years and they won't load up, break down or overheat like ordinary steel cutters. Use on all woods, fiberglass, stone, ceramic or plastic (not recommended for use on metal). 1/8" shanks fit in hand drills, Dremel and other rotary tools, and drill presses.

**#60919 Set of 6, Fine \$53.95** • **#60920 Set of 6, Coarse \$53.95**

## M. Sand and Polish Without Ruining Intricate Details

Embedded with 3M Cubitron™ and aluminum oxide grains, these radial bristle disks clean, deburr, sand and polish hard-to-reach intricate or flat areas on wood, metal, plastic or ceramics. 38-piece set includes 3/4" diameter disks in 80, 220, 400, 6 micron and 1 micron grits, plus pumice grit and 2 mandrels.

**#83165 Radial Bristle Disk Set \$45.95**

## N. Cut and Grind Almost Any Material with Our Fiberglass Reinforced Cut-Off Wheels

These 1-1/2" diameter cut-off wheels are the same type used by the steel industry, but in miniature sizes for miniature work. The fiberglass reinforcement resists breakage common to plain cut-off wheels.

- #14140** For glass, plastic, ceramic, aluminum, copper, brass. (.050" thick, 2 disks/pkg.) **\$7.10**
- #14141** For steel, steel alloys, hard bronze, other high tensile strength material. (.050" thick, 2 disks/pkg.) **\$7.10**
- #81758** Ultra-thin for fine precision cuts on steel, steel alloys, hard bronze and other high tensile strength material. Only .033" thick, 2 disks/pkg. **\$8.95**
- #14142** 1/8" shank mandrel for above wheels **\$3.10**
- #81770** **SAVE!** Set of all four **\$23.95**

## P. – S. Typhoon™ Carbide Burrs Remove Stock Quickly

Unique structurally aligned tungsten carbide points remove stock faster and leave a smoother finish than other types of tungsten carbide burrs. Typhoon burrs also last longer and do not load up quickly. Ideal for use on hard and soft woods, plastic, fiberglass and rubber. Use coarse burrs for rapid stock removal and fine burrs for finishing work. 1/8" shanks.

**Typhoon Burrs – \$18.95 each**

Item #	Fig.	Dia.	Length	Grit	Item #	Fig.	Dia.	Length	Grit
<b>81957</b>	P	1/4	1/2	Coarse	<b>81962</b>	Q	1/4	1/2	Fine
<b>81958</b>	P	1/4	1/2	Fine	<b>81965</b>	R	3/4	1/8	Coarse
<b>81959</b>	Q	1/8	3/4	Coarse	<b>81966</b>	R	3/4	1/8	Fine
<b>81960</b>	Q	1/8	3/4	Fine	<b>82657</b>	S	1/2	3/8	Coarse
<b>81961</b>	Q	1/4	1/2	Coarse	<b>82658</b>	S	1/2	3/8	Fine

## T. Diamond Wheel Set

Includes ten 3/4" dia. x 1/32" thick diamond-coated steel wheels and two mandrels. Ideal for cutting off or grooving extra-hard materials.

**#82259 Diamond Wheel Set \$20.95**

## U. Quick 'n Easy Press-On Sanding Disks

Sanding disks and mandrel are quick and easy to use. When worn out, peel off the old disk and press on the new one. Disks are 1" diameter aluminum oxide.

50 Disks/package - \$10.45/pkg.

- #80477 80 grit #80479 220 grit #80478 120 grit #80480 320 grit  
 #80481 1/8" Shank Flexible Rubber Mandrel for above disks \$5.95  
 #80482 **BEST BUY! Save 20%! Set of one of each item no. above \$38.20**

## V. Miniature Flap Wheels

Ideal for sanding irregular or curved sections of wood, metal and fiberglass. 1/8" shank. 1-1/4" dia. x 3/8" wide.

- #14130 Medium (80 grit) \$11.95 #14132 Extra Fine (320 grit) \$11.95  
 #14131 Fine (180 grit) \$11.95 #14160 **SAVE!** Set of all 3 \$33.15

## W. Miniature Saw Blades Cut Wood, Soft Metals, Plastic and Fiberglass

Hard-to-find miniature saw blades are precision ground tools of drop forged, tempered high carbon steel. All are .015" thick with 1/8" hole.

- #14133 3/4" dia., 36 teeth \$14.65 #14137 2" dia., 140 teeth \$24.50  
 #14134 3/4" dia., 60 teeth \$14.65 #14138 1/8" shank mandrel \$3.95  
 #14135 1" dia., 68 teeth \$15.75 **BUY THE SET AND SAVE!**  
 #14136 1" dia., 34 teeth \$15.75 #81043 Saw and mandrel set. Includes one each of the above. \$105.95  
 #80324 1-1/2" dia., 100 teeth \$21.95

### Rip Saw Blades

- #60554 Coarse blade set for ripping wood. Includes two .021" thick x 7/8" dia. x 36 tooth blades and 1/8" shank mandrel. Set in teeth prevents binding when ripping hardwoods. Blade has 1/8" hole. \$21.95  
 #60555 Replacement blade only \$10.95  
 #81354 Fine blade set for ripping wood. Includes .018" thick x 2" dia x 140 tooth blade and 1/8" shank mandrel. Set in teeth prevents binding. Blade has 1/8" hole. \$21.95  
 #81355 Replacement blade only \$19.25

## X. Indestructible Tungsten Carbide Sanding Bands

Tungsten carbide grains, permanently welded to a steel band, won't load up, won't break down, won't overheat. Use on wood, fiberglass and plastic. 1/2" dia. x 1/2" band fits your standard Dremel drum or order drum separately below.

- #14463 Coarse Grit Band \$8.25 #14563 Drum, 1/8" Shank \$3.30  
 #14464 Fine Grit Band \$8.25 #50292 **SAVE!** Set of all three \$18.35

## Y. Mandrel Set Makes Perfect Coils, Springs and Jump Rings

Anyone who has tried to make a miniature coil of wire will tell you it is not as simple as winding it around a rod chucked in an electric drill. The wire must be properly anchored and the speed must be carefully controlled for the wire to coil correctly. Our beautifully machined and plated coil mandrels include holes that anchor the wire to give you a perfect winding every time. The 1/4" hex shank fits most slow-speed drills and drivers. Set of eight mandrels includes 1, 2, 2.5, 3, 4, 5, 6 and 8mm diameters (.039, .079, .098, .118, .157, .197, .236 and .315 inch). Mandrels are 4" long overall; accommodate wire up to 1/16" diameter.

- #84118 Coil Mandrel Set \$19.95

## Powered Detail Engraver You Use Like a Pen

Our high-speed engraving tool lets you carve and engrave the finest details in metal, wood, plastic and glass. And, because it's so lightweight (just two ounces), you'll have more control than you ever thought possible. Beautifully finished machined aluminum barrel includes finger-tip on/off push button switch; holds two AAA cells (included) for cordless power. Set-screw-type 3/32" chuck holds miniature diamond engraving bit (also included). Packed in a handsome molded gift case.



- #84446 Engraver ... List \$26.25 ... Our Price \$20.95  
 #84447 Extra diamond bits, 3/32" shank (pkg. of 2) \$7.35

## Miniature Bench Grinder/Buffer Includes Flex Shaft for Shaping, Drilling, Sanding and More



Quality-built miniature bench grinder has 3" dia. grinding and buffing wheels that shape, sharpen and polish tool bits, drill bits, blades and more. Detachable 42" flexible shaft with ergonomic handpiece and 1/8" collet holds accessories that grind, buff, sand, drill and saw metal, wood and plastic. All-metal motor housing with rubber feet includes adjustable face shields which protect eyes and skin from hot sparks. Easily portable...weighs just 3-1/2 pounds. 3450 rpm, 120vAC with 6' line cord.

- #84767 Mini Bench Grinder with Flex Shaft \$52.45  
 #84768 Extra grinding wheel \$7.30 #84769 Extra buffing wheel \$7.85

## Ultrasonics - The Fast, Easy Way to Clean Small Parts

This is a true ultrasonic cleaner that uses energy in the form of sound waves to create literally millions of tiny, microscopic bubbles in the cleaning solution. These bubbles expand and collapse 46,000 times a second to create a mechanical "scrubbing" action that works its way into the smallest holes and hidden cavities, loosening and washing away dirt and grease from all surfaces that the solution touches. Includes a 2" deep, 3-1/2" x 6-1/2" stainless steel tank, parts basket, automatic shut-off and plastic cover. Ideal for cleaning airbrushes, model railroad components, R/C engines, instrument and clock parts, coins, eyeglasses and jewelry. Plugs into standard 120v AC household outlet. Power consumption: 50w. For best results, use with cleaning solution sold below (not for use with volatile solvents).



#82413 Ultrasonic Cleaner ... List \$119.95 ... Our Price \$94.95

### Concentrated Cleaning Solution

Advanced technology, non-hazardous cleaning solution removes oil, debris and grime from model parts and mechanisms. Completely safe, fast and easy to use on all materials.

- #81871 Quart bottle (makes 8 gallons of working solution) \$15.95

### NEW! Accessories for Ultrasonic Cleaners

- #85169 Hook and rack system suspends items in the tank for best cleaning performance.



Includes formable coated wire bracket, 12" long cantilever bar and 12 molded hooks. Bar and hooks may be repositioned to fit your cleaner set-up. \$19.95

## Binocular Magnifier for Hands-Free Magnification



The Optivisor Magnifier gives you 3-dimensional viewing by providing magnification for both eyes. Optical quality glass lens magnifies objects 2-1/2x at a working distance of 8". Additional interchangeable lens plates are available separately for other magnifications (see chart below, left). Comfortable, light-weight leather headband has orthopedic felt padding and is fully adjustable to fit all head sizes. Tilts up and out of the way when not in use and can be worn over glasses. Attachment loupe shown is optional (doubles the magnification of any lens plate) – order below.

**Extra Lens Plates for above**  
\$29.35 ea.

Item #	Magnifies	Working Distance
#52387	1-1/2x	20 inches
#52388	1-3/4x	14 inches
#52389	2x	10 inches

#18108 Optivisor Binocular Magnifier **\$46.95**

#18110 Attachment Loupe for above magnifiers only **\$15.25**

## Optivisor Professional Series Set

Includes Optivisor headband magnifier described above, six lens plates (1-1/2x, 1-3/4x, 2x, 2-1/2x, 2-3/4x, 3-1/2x) and attachment loupe, plus VisorLIGHT... a detachable,

AA battery-powered, laser-sharp spotlight which produces an intense 6,000 candle power collimated beam of light...all packed in a sturdy carry/storage case with fitted foam interior.

#84431 Professional Optivisor Set

Value if purchased separately \$347.15 ... Our Price **\$216.85**

## Custom-Fit Lighting for Your Optivisor



The Quasar Lighting System is designed specifically for use with the Optivisor binocular magnifier (above). Employing the latest in LED technology, Quasar lighting surrounds each lens with ultra-bright beams of white light that reduce shadows and increase visibility...especially good for viewing in holes and deep cavities. And the super-efficient LEDs require little power...so the batteries can last up to 96 hours. Includes two Energizer® AA batteries, mounting strap, mounting pins and battery compartment. Works with #18110 optional attachment loupe sold separately. Installs in less than a minute.

#83518 Quasar Lighting System for Optivisor **\$26.20**

## Clip-On Magnifiers Flip Up for Normal Vision

These magnifying lenses let you instantly switch between close-up and distance viewing. Simply clip them onto your regular glasses. To see close, flip them down. For normal vision, flip them up. Large optical quality acrylic lenses mount directly in front of your glasses to eliminate double vision. +4.00 power lenses magnify 2.00x at a working distance of 10".

#82080 +4.00 Clip-On Magnifiers **\$10.75**



## Fluorescent Magnifier Has Shadow-Free Lighting

When you want to see close, proper lighting can be as important as magnification. Our fluorescent magnifier uses an efficient 22 watt circular tube (included) to surround objects with bright, cool light, eliminating shadows that impede vision and reduce accuracy. 5" diameter optical quality lens enlarges to 175% actual size. Spring balanced arms with tension control knobs extend magnifier up to 36" from the swivel base. Mounting bracket clamps to benches up to 2-1/4" thick. 120v AC. (Use our web site shopping cart to calculate freight charge for shipments outside 48 contiguous U.S., or call our order line for assistance.)

#82718 Fluorescent Magnifier  
List \$103.35 ... Our Price **\$74.65**



**Beware of Cheap Imitations!**

## Deluxe Lighted Magnifier Adjusts to Four Magnifications

Our deluxe headband magnifier not only has twin-beam, focused lighting, but also lets you select the magnifying power you need with just the touch of your finger. Contained under the hood is a special flip-down auxiliary lens plate you use in combination with the attachment loupe, providing magnifications of 1.8x, 2.3x, 3.7x and 4.8x. The comfortable headband can be worn with glasses and adjusts to any size with a Velcro-type fastener. Optical quality acrylic lenses. Requires four AAA batteries (not included). High quality.

#81838 Lighted Magnifier **\$32.95**

**Beware of Cheap Imitations!**



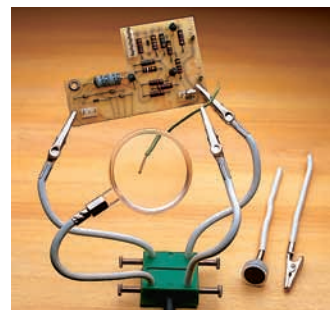
## Hands-Free Magnified Lighting at an Affordable Price

This is an invaluable tool when accuracy and visual clarity are critical. Excellent for close, precision inspection, jewelry work, model building, stamp and coin collecting, needlework, reading. The 3 diopter, optical quality lens enlarges to 175% of actual size. Spring-balanced arms extend magnifier to exact position required. Mounting bracket adjusts to any table thickness up to 1-1/2". 4" dia. lens. Uses standard 60 watt light bulb (not included).

#24101 Magnifier Lamp **\$32.95**



## 4-Armed Holding Jig for Gluing, Soldering, Painting, Inspecting and More



This "third hand" securely holds small objects in any position and leaves your hands free for holding soldering iron, solder, paint brush, glue bottle, etc. Especially useful for solder assembly of multiple components. Clamps hold your first joint together so if you heat it again to add items, the first joint won't fall apart. Includes 4 alligator flex arms, 2" magnifier and magnet. 5" long flexible arms bend to any position. Set screws in base let you use the six components in any combination. Includes clamp for mounting base to any workbench up to 1-1/4" thick.

#60682 Four-Armed Holding Jig **\$20.95**

## Accordion Lamp Extends to Where You Need It, Then Folds Out of the Way



This unique wall-mount lamp gives you the light you need when you need it, but won't get in your way when you don't. Reaches out 25" from the wall when extended. Also swivels 180° left or right of mounting bracket. Flexible "goose neck" directs light up or down. Has on/off switch and 6' cord. Ceramic socket lets you use up to 100 watt bulb (not included). 6-3/4" dia. shade.

#60670 Accordion Lamp  
List \$31.60 ... Our Price **\$25.65**

## Hard-to-Find Wire Stripper for Micro-Size Wire



A beautifully made, professional quality wire stripper/cutter for fine wire sizes used in electronic, R/C and model railroad work. Strips AWG wire sizes #20 to #30. Tempered steel with cushion grip handles and spring return. 6" long. Handle style may vary.

#14221 Micro-Size Wire Stripper **\$20.75**



### Triple Grip Third Hand Keeps Your Hands Free

Used by jewelers, model builders, miniaturists and electronic hobbyists. Keeps your hands free for soldering, gluing and positioning while work is held firmly at any angle required. Has 3 alligator-type spring clamps mounted in ball joints for flexibility. Nickel plated steel with heavy iron base for no-tip stability.

**A. #21120 Triple Grip Third Hand \$10.45**

**B. #84454 Soldering version includes 2 alligator-style clamps, 2-1/4" diameter magnifier and coiled soldering iron holder. . . List \$18.85 . . . Our Price \$12.10**

**C. #84453 Lighted version includes 2 alligator-type spring clamps, 2-1/4" diameter magnifier, and miniature goose-neck LED lamp. . . List \$23.00 . . . Our Price \$16.75**

### Micro-Glaze...The Easy Way to Create Realistic Window "Glass"

Our Micro-Glaze liquid window pane material adds that extra touch of realism that you can't get with ordinary sheet plastic. It creates "glass" that is a lot closer to true scale thickness, so reflected light is much more realistic; and if your structure has interior lighting, the effect is even more impressive. To use, dip a toothpick into the glazing liquid, apply around and then across the window opening. When dry, you'll have a rigid film that simulates an ultra-thin, clear pane of "glass." Clearer and more bubble-free than any other brand we've tested. Use for model railroad structures, locomotives, passenger cars, ship model skylights, etc. Works on plastic, metal and wood framed individual panes up to 1/2" x 1". Two 3/4 oz. bottles.

**#80894 Micro-Glaze \$8.35**



### Sanding Twigs Contour and Smooth Narrow Spaces



These sanding "twigs" are only 1/8" square (some a little smaller; some a little larger) so they easily reach, contour and smooth narrow locations. The cushion-mounted abrasive is mounted on a plastic substrate for good flexibility and durability. Use on metal, plastic, acrylic, wood and ceramics. Sold in a plastic bucket containing approximately 300 twigs of assorted grits. Each twig is 6-1/2" long.

**#84425 Sanding Twigs \$25.15**

### Micro Saws... #11 Blades with Teeth!



Excellent tools for cutting plastic, soft metal and wood in tight places and when a knife blade just won't cut it. Set includes 6 blades...two .010" thick x 40 tpi; two .010" thick x 30 tpi; and two .015" thick x 24 tpi. . . and 5" long aluminum handle. Blades are made of premium quality steel.

**#14345 Micro Saw Set \$11.50**

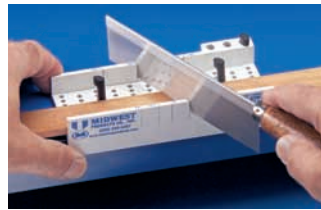
#### Micro Saw Blades

**#14346** .010" x 40 tpi, package of two **\$3.25/pkg.**

**#14347** .010" x 30 tpi, package of two **\$3.25/pkg.**

**#14348** .015" x 24 tpi, package of two **\$3.25/pkg.**

### Deluxe Miter Box Holds Stock Securely for Super-Accurate Cuts



Special miter box securely holds stock in position for accurate cutting. Three cam-action clamp pins install in holes in plastic base...you just twist them to lock stock in place. Holds stock up to 1/2" thick by 2" wide. Use extra wide lip on front of miter box to position against edge of workbench, or hold in vise for extra security. Includes Zona® brand razor saw with fine-pitched 32 tpi blade and five slots for cutting at 30, 45, 60, 67.5 and 90 degrees.

**#83277 Easy Miter Box Deluxe \$13.60**

### Miniature Brass Eye Pins

Use for hanging mini items in the dollhouse, railing stanchions for railroad models, tying off lines on ship models, and more. .033" dia. brass, 1/2" long, 3/64" inside eye dia. Approx. 144 pcs./pkg.

**#60405 Eye Pins \$7.29/pkg.**

3 or more **\$6.25/pkg.**



### Tool Maker's Surface Gauge Gives You Precise Marking Ability



This precision tool is used by tool makers to mark a perfectly straight and parallel line at the exact height required. Excellent for marking scale ship model waterlines and for transferring gunport, porthole and other item locations from the ship's plan to the hull. Can also be used for marking-out raised panels, windows, chair rails, etc. in dollhouse construction. Adjusts quickly to approximate location with coarse adjustment knob and then to exact location with fine micrometer type adjustment knob. Measures and marks any height from 0" to 10". Made of steel with ground and polished base and needle sharp scriber. Can also be used with a pencil.

**#60520 Tool Maker's Surface Gauge**  
List \$49.10 . . . Our Price **\$36.40**

### Pin Collars...A Unique Way of Holding Parts During Assembly



Pin collars are special fittings that lock into position on straight or T-pins. They hold parts in place during assembly when there is no room for traditional spring, bar or screw-type clamps. And, pin collars work great when parts are fragile, since they hold with very little pressure. How they work: Slip a collar onto a pin. Then position the pin/collar either through or alongside parts to assemble. Slide the easy-grip knurled brass collar into place and tighten the screw with the hex wrench. Set includes 20 collars, 20 Allen head cap screws, a ball-end hex key that works at an angle for easy access, plus instructions for use. Collars are 1/4" dia. Use with T-pins #14318 (page 28) or other pins. Great for assembly of model airplanes over a building board.

**#84419 Pin Collar Set \$15.75**

2 or more sets **\$13.60 per set**

### Push Hammers Drive Nails and Pins Straight... Save Time, End Frustration



Ship modelers, dollhouse builders and model railroaders know that driving a small nail or tiny pin by striking with a hammer can be frustrating and time-consuming...chances are it will either bend or go in crooked. Our Push Hammers solve these problems better than any other tool. Just insert nail or pin head-first into the spring-loaded barrel and push. Fasteners are driven straight and fast every time. Comfortable, ball end design makes pushing with your palm easy and accurate. Made to Micro-Mark specifications of machined brass and steel, with hardwood handle. Overall length: 7".

**#83228 Push Hammer for pins**  
with head dia. up to 3/64" **\$16.75**

Recommended pins/nails: #14315 and #81844. See our web site.

**#83227 Push Hammer for nails with**  
head dia. from 3/64" to 3/32" **\$14.65**

Recommended nails: #14316. See our web site.

# Micro-Mark®

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
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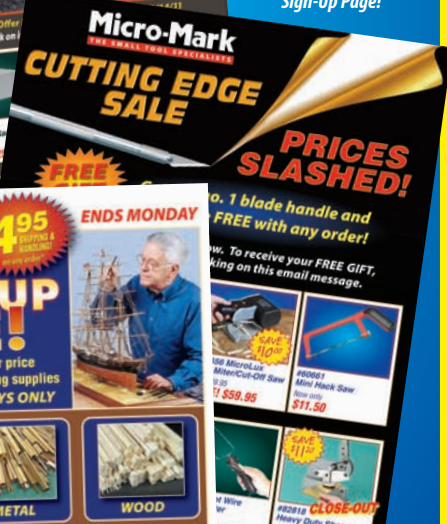
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