

# Micro-Mark<sup>®</sup>

PRECISION TOOLS & MORE FOR MAKERS

**NEW!** Operating Diesel Engine Model Kit  
Looks and Runs Like the Real Thing!

See back cover



Winter 2025

Prices in this catalog are  
valid through March 31, 2025.

**Shop Online: [www.micromark.com](http://www.micromark.com) • Order by Phone: 1-800-225-1066**



## Introducing the Micro-Mark Acrylic Paint Line – Made in USA!



Painting and finishing are key components to almost every project. With 96 years of experience in the hobby / maker space, Micro-Mark has time-tested expertise in providing the best and most innovative paints, brushes, airbrushes, finishing supplies and painting equipment to our customers. Recently, the demand for quality paint products has exceeded supply and as a solution to this issue, Micro-Mark is pleased to introduce the Micro-Mark Acrylic Paint Line.

The Micro-Mark Acrylic Paint Line has been developed and tested by our expert in-house team to give model builders, miniaturists, figure artists and other makers a new option when choosing paint for their projects. Featuring the most widely requested selection of basic colors, our matte-finish acrylic paint sets provide consistent color, solid coverage and smooth application in both brush-on and airbrush formulations. Additionally, we also offer white, gray and black primer for paint brush and airbrush use, plus our own thinners, acrylic paint cleaner, airbrush flow improver and retarder medium, giving you a complete paint system for reliable results every time. Our water-based acrylic paint products are non-toxic and proudly made in the USA.

**#29269 Micro-Mark Basic Color Acrylic BRUSH-ON Paint Set, 18 Bottles, 20 ml ea. \$29.95**

**#29270 Micro-Mark Basic Color Acrylic AIRBRUSH Paint Set, 18 Bottles, 20 ml ea. \$29.95**

**NEW Railroad Color Paint Sets!** These ready-to-use acrylic paint sets have been developed specifically to match classic Poly Scale railroad colors, providing modelers, diorama builders and all other makers with an essential selection of prototypically accurate colors for realistically finishing locomotives, rolling stock, structures, scenic elements and more.

**#29384 Micro-Mark Railroad Color Acrylic BRUSH-ON Paint Set, 18 Bottles, 20 ml ea. \$29.95**

**#29369 Micro-Mark Railroad Color Acrylic AIRBRUSH Paint Set, 18 Bottles, 20 ml ea. \$29.95**



**A Micro-Mark Exclusive!**

**91167K Micro-Mark Deluxe Acrylic Paint System with Portable Organizer Rack**  
Includes everything you need to bring your creative vision to life! • Micro-Mark 16-color Basic Color Acrylic Brush-On Paint Set with 1 each Acrylic Paint Thinner and Acrylic Paint Cleaner in 20 ml bottles • Micro-Mark 16-color Basic Color Acrylic Airbrush Paint Set with 1 each Airbrush Paint Thinner, and Airbrush Flow Improver in 20 ml bottles • 1 each Micro-Mark 8 oz. Acrylic Primer in White, Gray, and Black • 1 each Micro-Mark 8 oz. Acrylic Paint Thinner, Airbrush Flow Improver, and Acrylic Paint Cleaner • Custom designed, all-in-1 portable organizer/storage rack set.  
Value \$150.00 ... Our Price **\$99.95**

**Micro-Mark Acrylic BRUSH-ON Primer, 8 oz \$11.95 ea.**

**#29271 Gray**

**#29272 White**

**#29273 Black**

**Micro-Mark Acrylic AIRBRUSH Primer, 8 oz \$11.95 ea.**

**#29274 Gray**

**#29275 White**

**#29276 Black**

**#29265 Airbrush Thinner, 8 oz \$11.95**

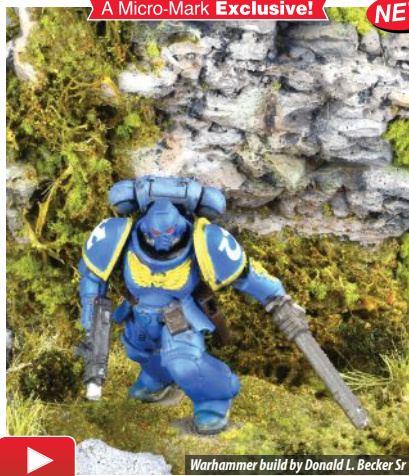
**#29277 Brush-On Thinner, 8 oz \$11.95**

**#29266 Acrylic Paint Cleaner, 8 oz \$11.95**

**#29267 Airbrush Flow Improver, 8 oz \$11.95**

**#29268 Retarder Medium, 20 ml \$5.95**

**#91157 Micro-Mark Paint Rack** is made of laser-cut wood and is designed to hold 18 Micro-Mark 20 ml Acrylic Paint bottles neatly on your work table. 11.5" x 2.75" x 2" high rack can be painted or stained if desired. Assembly required. **\$19.95**



**A Micro-Mark Exclusive!**

**NEW!**

### Create Realistic Stone Features, Walls, Beaches, Roads, Earth Effects and More with Micro-Mark Terra Textures

Whether used directly from the jar, mixed with other media, or even blended with acrylic paints, Micro-Mark Terra Textures add visual and tactile realism to dioramas, vignettes and more. Each acrylic-based Terra Textures medium is pre-mixed and pigmented to replicate a specific texture: Stone, Sand, Brown Earth and Dark Earth. When wet, Terra Textures can be applied to virtually any surface and may be shaped, brushed, etc. to create a wide variety of special effects. When dry, Terra Textures are hard, strong and durable. Use acrylic paints and washes to simulate weathering and add amazing depth and detail to all kinds of scenic and natural elements. Easy clean-up with soap and water. Provided in 8 oz. jars. 2-year shelf life.\*

**#29315 Micro-Mark Terra Textures Stone \$13.95**

**#29316 Micro-Mark Terra Textures Sand \$13.95**

**#29317 Micro-Mark Terra Textures Brown Earth \$13.95**

**#29318 Micro-Mark Terra Textures Dark Earth \$13.95**

\*When stored properly.

### Airbrush Micro-Mark and Vallejo Paints Right Out of the Bottle!

Our unique reusable Paint Feed Adapters allow paint bottles to attach directly to the airbrush body. Use in place of the detachable M6 x .75 thread fluid cup on fravily fed airbrushes to change colors in an instant, with less mess and easier cleaning!

**#91147 Airbrush Paint Feed Adapter for Micro-Mark Paints, Set of 5. \$19.95**

**#90833 Airbrush Paint Feed Adapter for Vallejo and other 17 ml (0.5 oz) paint bottles, Set of 5. \$19.95**

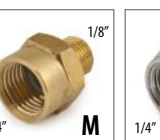
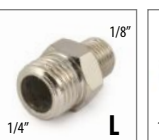


Paint and Airbrush not included.



**A. #86116 MicroLux® Pistol-Grip Airbrush Set** has a professional feel for projects of all types and sizes. Trigger action controls air flow; adjustable needle controls spray pattern. Gravity-feed, internal-mix gun works with most paints, stains and washes. Set includes airbrush; 3 paint cups: 2 cc, 5 cc with lid, and 13 cc with lid; 2 extra tip assemblies; 3 needles (0.3, 0.5, and 0.8 mm); wrench, 6' long braided hose; fitted case; and instructions. List \$120.00 ... Our Price **\$89.95**

**B. #86110 MicroLux® Double-Action Airbrush Set** Internal-mix airbrush features a down-and-back trigger that controls both air flow and paint flow. Converts to single-action simply by turning a set screw. Set includes airbrush, two 22 cc (3/4 oz) glass jars, metal jar adapter with pickup tube, one metal color cup, 5' vinyl air hose, hang-up hook, nozzle/hose wrench, protective metal nozzle cap, and fitted storage case. **\$44.95**



**C. #86108 Portable Air Compressor** Compact in size and weighing just under 8 lbs., this smooth-running, nicely-built air compressor goes where you need it. Auto start/stop means it only runs when you press the trigger on your airbrush, and oil-less, maintenance-free, piston-type construction provides smooth operation with low noise. Includes carry handle, sound-deadening suction cup feet and 1/8" BSP adaptor. Overall size: 10" x 5-5/16" x 6-11/16". Air output: 0.7 to 0.8 cfm. Delivers 20 – 30 psi. List \$120.00 **\$99.95**

**D. #86113 MicroLux® Compressor-mounted Pressure Regulator/Gauge/Moisture Trap** lets you control the air pressure you need for the type and consistency of paint being sprayed. Regulates airflow from 0 to 150 psi (0 to 10 bar). Built-in moisture trap removes finish-ruining condensation...even on humid days. Fits most hobby/art air compressors with standard 1/4" NPT male outlet fitting. Includes 1/4" fitting. **\$29.95**

**E. #86109 MicroLux® Twin-Cylinder Portable Air Compressor** Built with special care for the demanding hobbyist-artist, this sturdy, case-mounted air compressor is equipped with features desired by professional airbrush users: 1/4 hp motor-driven twin-cylinder compressor for powerful delivery; 3.5 liter air tank to eliminate pulses that cause paint application problems and reduce compressor cycling; Auto-start/stop switch for continuous replenishment of air tank; Adjustable regulator and pressure gauge for spraying various types of paint; Moisture trap and oil-less piston design eliminates paint contamination; Sound-deadening, ventilated metal enclosure for quiet operation and long life. Air output: 35 to 40 liters/minute. Pressure adjust range: 0 to 57 psi. Auto start at 43 psi; auto stop at 57 psi. Includes carry handle, suction-cup feet, two airbrush holders, thermally-protected motor, 6' line cord, and body-mounted on/off switch. Weight: approx. 24 lbs. Overall size: approx. 14" long x 5-1/2" wide x 14" high. 110VAC. List \$220.00 **\$214.95\***

\*Use our website shopping cart to calculate freight charge for shipments outside the 48 contiguous United States.

**F. #86539 Whisper Air Compressor** Weighing in at just under 9 lbs., this sleek, easily-transported and affordable compressor performs well and looks great doing it. Use the compressor in auto start/stop mode and it runs only when you press the trigger on your airbrush. Or, use the built-in pressure gauge to dial-in the optimal pressure you need (anywhere from 5 to 57 psi) for spraying your choice of media with a continuous, controlled flow. Either way, its oil-less, maintenance-free, piston-type construction provides smooth operation with very low noise, and its internal tank with water drain valve provides dry, pulse-free air flow. Motor: 1/6 hp., 120VAC with 5' cord; body-mounted master on/off switch. Includes 2 airbrush holders, convenient carry handle and sound-deadening feet. Overall size: 5-1/2" wide x 10" deep x 8" high. Air output: up to 0.81 cfm. Delivers up to 57 psi. MicroLux® brand. List \$200.00 ... Our Price **\$139.95**

**G. #86114 Mini Filter** attaches directly to your airbrush\* to remove moisture, oil and dust. Includes clear filter bowl and spring-loaded drain valve. 1/8" BSP fittings: male on one end; female on the other. **\$13.95 2 or more \$9.95 each** \*1/8" BSP male fitting required

**H. #86115 Air Hose** Durable, highly-flexible cloth-braided air hose with 1/8" BSP female fitting on one end and 1/4" BSP female fitting on the other (fits typical 1/4" NPT compressor output fitting). 3 meters (approx. 10') long. **\$14.95 2 or more \$10.50 ea.**

**J. #86117 Glass Paint Jars** Set of ten 22 cc (3/4 fl-oz) glass jars with plastic caps. 30/400 threaded caps are compatible with MicroLux® brand airbrushes. Foam seals inside caps help keep paint fresh between projects. **\$19.95 2 or more sets \$14.95/set**

**K. #86119 Pressure Reducing Valve** 1/8" BSP male/female **\$8.95 2 or more \$7.25 ea.**

**L. #86120 Air Line Adapter** 1/8" BSP male to 1/4" BSP male **\$6.95 2 or more \$5.65 ea.**

**M. #86121 Air Line Adapter** 1/8" BSP M to 1/4" BSP female **\$6.95 2 or more \$5.65 ea.**

**N. #86122 Air Line Adapter** 1/4" NPT male compatible **\$6.95 2 or more \$5.65 ea.**

**P. #86107 Spray Booth Turntable** Included with Fold-Up Booth. **\$13.95 2 or more \$10.95 ea.**



## Micro-Mark BRUSHCAM



**A Micro-Mark Exclusive!**



## BrushCAM is the Next Level of Innovation for Detail Painting

Invented by our in-house Product Development Team and produced exclusively for Micro-Mark, BrushCAM virtually gives you eyes on the end of your brush for an unprecedented view of the object you are painting in real time. Ideal for detail work, BrushCAM greatly magnifies the tip of your paint brush so you clearly see that which you could never see with your eyes alone. Using the latest WiFi technology, this amazing tool wirelessly broadcasts a sharp video image directly to your phone or tablet through a dedicated, easy-to-use app, opening up a previously unseen view of your work right before your eyes. It also provides its own brilliant illumination with a LED-lighted tip, so even the darkest recesses of your workpiece will show up bright and crisp onscreen.

In typical use, BrushCAM employs a specially-designed adapter to connect the camera to your brush so they work together seamlessly as a single unit; the camera is basically an extension of your paint brush. You can increase and decrease magnification by moving the camera closer to or farther away from the tip of your paint brush. Because the camera has a fair range of focal length, you can also hold the BrushCAM in one hand while you hold your brush with the other for even more flexibility and versatility. This way, the camera remains relatively stationary while you move the paint brush, allowing you to paint confidently in the most confined spaces. You can even use the camera unit by itself for close-up inspection in hard-to-see areas. Regardless of how you choose to use it, a single 1 hour charge will provide up to 1.5 hours working time.

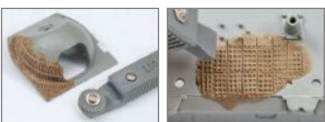
The free-for-download, Android and Apple iOS compatible SeekBird app was developed specifically for use with BrushCAM's camera, and has many great features as well, including capturing video and still images and storing them directly into separate albums on your device, the ability to flip the view onscreen to mirror image while you work, and more.

Set includes the BrushCAM camera unit with onboard USB-rechargeable battery, camera/brush adapter, hex wrench for adjusting adapter set screws, USB charging cable, three high-quality wood-handled brushes with 0/15 detailer tip, 0/15 shader flat tip and 0/15 pointed flat tip, a handsome foam-fitted case with magnetic closure, and complete instructions. Take your detail painting to the next level with Micro-Mark BrushCAM. *Ships by ground to 48 contiguous United States only.*

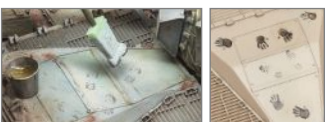
**#90336 Micro-Mark BrushCAM \$79.95**

## Liang Models Texturing Tools Add Eye-Catching Detail

Excellent for use with our Foam Clay and other media, these clever 3D printed tools make complex texturing and imprinting tasks fast, easy, consistent and repeatable. Add a higher level of realism and detail to your military models, dioramas and more.



**#91140 Liang Models Zimmerit Coat Tools Bundle** These innovative 1/72, 1/48 and 1/35 scale tools accurately and quickly replicate the unique look and texture of Zimmerit Coat. Excellent for use with our Foam Clay. **\$24.95**



**#91139 Liang Models Bootprint and Handprint Tools Bundle** includes 1/35 scale left and right WWII American, German, and Russian boot tread patterns, plus 1/72, 1/48, 1/35, 1/32 and 1/24 scale hand patterns. **\$24.95**

## Micro-Mark Multipurpose Foam Clay is the Secret Weapon for Railroad Modelers, Diorama Builders, Cosplayers, and More!

This is one of those unique, new products you'll wish you had all along. Incredibly light-weight, instantly sculptable, infinitely moldable, and immediately intuitive, Micro-Mark Foam Clay can be used to create almost anything, from amazingly realistic simulated rock faces, stone walls, and other landscape elements on model railroads and dioramas, to larger-than-life wearable masks, embellishments and more for cosplay and costuming. Ready-to-use right out of the bag, you can simply tear off a piece and get to work. Sculpt it freehand or with tools, press it into a mold or onto textured surfaces, roll it out and cut it into shapes. This non-toxic, odor-free, non-staining material does pretty much whatever you want, better than you can imagine.

Once dry, whatever you've made can be painted, weathered, glued, etc. You can also build fresh Foam Clay onto your existing creations. Just keep in mind that the material will shrink a bit as it dries. And when we say Foam Clay is light-weight we mean it...the entire 8" x 8" x 2" bag weighs only 500 g (and even less when dry), yet provides plenty of material for a multitude of projects. As with any new medium, trial and error experimentation will yield the best results, but the fun factor begins as soon as you open the bag.

**#91069 Foam Clay, 500 g \$9.95 2 or more \$8 each**

**NEW!**



*This realistic rock wall was made by pressing Foam Clay onto a rock from the yard, then painting, detailing and finishing with natural elements.*

**A Micro-Mark Exclusive!**

## Keep Model Kit Sprues Neat & Organized While You Work

**#90849 Micro-Mark Model Kit**

**Sprue Holder** helps organize your kit build, keeps your workspace tidy and makes moving your project from tabletop to desk or bench a breeze!

Formed from ultra-sturdy, high-impact polystyrene, it's perfect for all types of parts sprues including resin, plastic, metal and laser-cut wood. Arrange your model sprues by letter/number and make finding the one you need much easier! Holds up to 16 sprues.

**\$19.95**

**2 or more \$17 each**



*Tools, cement, etc. are not included.*

## These Brushes Help You Master Dry Brushing



**A. #81081 #2 Dry Brush \$7.95**

**B. #81080 #4 Dry Brush \$8.95**

**C. #81079 #6 Dry Brush \$9.95**

**D. #81078 #8 Dry Brush \$12.95**

**#81082 Set of 4 SAVE! \$34.95**

Dry brushing is a technique that lightens raised details on models and miniature figures; for example, rivets, tank treads and buttons on a coat. By wiping almost all of the paint from a specially shaped brush, just a touch of color is needed to create subtle highlights for a realistic, artistic appearance. Our special brushes are made of the finest Mongolian sable and have the perfect texture and shape for mastering dry brushing techniques. Brushes are approx. 7" long with lacquered hardwood handles and seamless nickel ferrules.



## Unique, Self-Contained, Portable Airbrush System Allows You to Paint Anywhere, Anytime!

One of the most innovative tools we've seen in years, this go-anywhere Self-Contained Portable Airbrush is a marvel of technology and engineering. An onboard, rechargeable lithium-ion battery activates the built-in air compressor, filling its integral tank with a supply of pressurized air that will power the airbrush for about 40 minutes of work time on a full 1 to 1.5 hour charge. Delivering a maximum of 25 psi at 7L/min., and weighing just 12 ounces, this dual-action airbrush has surprisingly good balance, feel and ergonomics, fitting very nicely in the hand. Equipped with a 0.3 mm nozzle, this high-quality airbrush has all the adjustability and features found in high-end conventional airbrushes and is designed primarily for fine detail work and moderate coverage with relatively thin paints, stains, inks, dyes and washes. From detailing the flame paint job on your 1:1 hotrod in the driveway, to weathering a model locomotive on your railroad layout, to painting temporary tattoos at the county fair, this versatile tool is a must-have for virtually every airbrush user. Set includes fully assembled, dual-action red anodized and polished chrome airbrush body, red anodized compressor/tank with auto start/stop and built-in battery, three top-mounted paint cups with lids: chrome 7 cc, plastic 20 cc and 40 cc with graduations, pipette, 3' USB charging cable, air hose adapter (to use the airbrush with a conventional air compressor and/or inline moisture trap), inline moisture trap adapter, and fitted hardshell case with magnetic closure.

**#89747 Micro-Mark Self-Contained Portable Detail Airbrush Set (Red & Chrome) \$109.95\***

**#90221 Micro-Mark Self-Contained Portable Broad-Spray Airbrush Set (Black & Chrome)** is identical to the airbrush above, except the 0.5 mm nozzle produces a wider spray pattern, ideal for larger projects with greater coverage. **\$109.95\***

**#89671 MicroMini Compact Air Compressor**



**#91060 Micro-Mark External Mix, Siphon Feed Airbrush Set** This easy-to-use, easy-to-clean airbrush is designed for use with the powered compressor tanks of our Portable Airbrushes (or with #91149, sold separately). The included 40 ml bottle holds plenty of paint for larger jobs with less refilling. 0.3 and 0.5 mm nozzles provide smooth coverage with a wide variety of paints, inks, stains, etc. External mix means the paint doesn't flow through the airbrush, allowing for super-fast color changes. Set includes single-action airbrush unit, 0.3 and 0.5 mm nozzles/bottle holders with siphon tubes, 40 ml paint bottle, air hose fitting and cleaning needle. Set makes a great accessory to your Micro-Mark Portable Airbrush, or as a stand-alone airbrush alternative. **\$21.95**  
**See our website for extra bottles & tubes**



**#91061 Micro-Mark Paint Marker Airbrush Adapter System** Designed for use with the powered compressor tanks of our Portable Airbrushes (or with #91149, sold separately), our Paint Marker Airbrush Adapter is one of the easiest and most economical ways to enjoy the benefits of airbrush painting without any extra equipment or messy clean-up. Simply attach the Airbrush Adapter to the compressor, position a paint marker in the built-in holder, push the trigger, and start painting. Set includes 4 different slide-on marker holders to accommodate a wide variety of paint markers, plus an air hose adapter for use with standard compressors. **\$16.95**

**NEW! #29314 Set of 120 Markers** Double-ended alcohol-based markers in an amazing array of colors, plus organizer box. **\$39.95**

**NEW! #91149 Self-Contained Portable Air Compressor** Use it as a spare for the airbrushes above, or for exceptional portable performance to power our #91060 and #91061 airbrushes (below left), or for any other compatible airbrush. Includes black compressor unit and USB charging cable. **\$79.95**

**#89671 MicroMini Compact Air Compressor** Perfect for use when you want a really cool, tiny air compressor you can take just about anywhere, our super-quiet and efficient MicroMini Compact Air Compressor gets the job done like no other. Weighing in at a mere 19 oz and only 4-1/4" x 4-1/4" x 2" tall, this palm-size performer consistently delivers 25 psi at 10L/min., providing all the airflow you need for airbrushing. Its small size and ample output make it ideal for airbrushing wherever there's a power source to plug it into. Includes high-quality, braided cloth-covered, 6-foot hose with metal 1/8" BSP female fittings, top-mounted airbrush holder, on/off button with LED indicator, non-slip rubber feet, and power supply with 3-foot cord. **\$49.95**

## Deluxe Portable Fold-Up Spray Booth Has It All!

Our all-time favorite spray booth provides the platform for our most tricked-out, "hot rod" version yet! Outfitted with every available accessory, this feature-packed Deluxe Edition is sure to become the go-to workhorse of your shop. Booth includes integrated LED lighting system, airbrush holder and tray attachment, exhaust duct system, turntable with six parts holder clips, and filter.

**#91152 Deluxe Edition Portable Fold-Up Spray Booth \$169.95**

*Paints, airbrush and model are not included.*



## Micro-Mark 2-in-1 Portable Airbrush Super Value Package

**2-in-1 Portable Airbrush Super Value Package includes:**  
• #90221 Micro-Mark Self-Contained Portable Broad Spray Airbrush • #89747-0.3 Needle/Nozzle Assembly • #90833 Reusable Paint Feed Adapter for Airbrush by Micro-Mark, Set of 5 • #86104 Fold-Up Portable Spray Booth • #86105 Exhaust Duct for Spray Booth • #86106 Fold-Up Portable Spray Booth Filters, Set of 5 • #80975 Cordless Mini Paint Mixer  
**#91010 Micro-Mark 2-in-1 Portable Airbrush Super Value Package** Value \$328.65 **Super Buy \$269.95\***

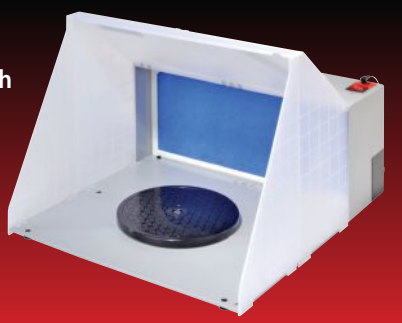


**#90221 Black & Chrome BROAD-SPRAY Airbrush**



**#89747 Red & Chrome DETAIL Airbrush**

**Portable Fold-Up Spray Booth is Ideal for Small Work Spaces, Travel and More!**



*Portable, fold-up design goes anywhere you do!*



*Use 2 booths side-by-side to paint long models*

Light-weight (only 7 lbs.) for complete portability, this booth measures just 16" wide x 8" high x 6" deep when folded for easy storage inside a cabinet or on a shelf. Unfolds in seconds into a large 16" wide x 13" high x 15" deep booth. If you need to spray long items, just place two booths side-by-side to double the width! Power-packed sparkless DC fan motor has 1/3 more air flow than regular AC models. Includes filter for trapping overspray, turntable, and wall power pack. (Plugs into 110VAC wall outlet.) Add a duct (order below) to exhaust fumes outdoors. Made of durable plastic polymers, with metal fan grill and rubber feet.

**#86104 Portable Fold-Up Spray Booth**

List \$200.00 . . . Our Price **\$134.95 2 or more \$99.95 each**

**#86105 Spray Booth Exhaust Duct with Window Vent**  
**FITS ANY SPRAY BOOTH WITH A 4" DIAMETER EXHAUST PORT**  
**\$24.95**

**2 or more \$22.95 each**



**#86106 Replacement air filters for spray booth, package of 5 \$23.95**

**#87898 Fold-Up Spray Booth Super Value Package** includes **2 EACH** spray booths and exhaust ducts, plus 10 filters. Value \$367.70 **Super Buy \$269.95\*\***

**NEW! #91098 Airbrush Holder & Tray Attachment for Portable Fold-Up Spray Booth** This sleek, molded plastic attachment features four convenient airbrush holders and a large integrated tray to keep bottles of paint and thinner readily at hand while you paint. **\$14.95**





**\$14**  
ADDITIONAL  
FREIGHT  
ANYWHERE IN  
LOWER 48 STATES



**\$19**  
ADDITIONAL  
FREIGHT  
ANYWHERE IN  
LOWER 48 STATES

#82430

MicroLux® spray booths eliminate the hazards of spraying paint in confined areas. Inside the base of the downdraft-style booth is a powerful, brushless exhaust fan which draws paint overspray from inside the durable metal hood and passes it through a three-stage filter which removes pigment particles and solvent vapors, then vents the cleaned air outside the work area. The clear window which forms the top of the hood lets room light in. Includes 4" diameter exhaust ports, on/off switch for fan, holes for hanging up parts, and filters. All metal construction. Hood requires a few minutes of assembly. 120VAC.

#### #82427 STANDARD 15" x 20" Spray Booth

Interior dimensions are 15" deep x 20" long x 12" high. Single 185 cfm fan directs air flow out the back of the base. Overall height: 21".

#82427 Standard 15" x 20" Spray Booth **\$549.95\*\***

#### STANDARD Spray Booth Filters and Accessories

#82150 1st stage filters (15" x 20") pkg. of 5 **\$5.95**

#82410 2nd/3rd stage filter set (15" x 20") **\$19.95**

#82429 1st stage filter roll (20" x 1,800"; makes 120 filters) **\$59.95**

#82428 Roll filter tray (20") **\$49.95**

#### #82430 LARGE 15" x 30" Spray Booth

Interior dimensions are 15" deep x 30" long x 12" high. Dual 185 cfm fans (370 total cfm) direct air flow out dual exhaust ports located on side of the base (left/right reversible). Overall height: 22".

#82430 Large 15" x 30" Spray Booth **\$799.95\*\***

#### LARGE Spray Booth Filters and Accessories

#82433 1st stage filters (15" x 30") pkg. of 5 **\$9.95**

#82434 2nd/3rd stage filter set (15" x 30") **\$24.95**

#82432 1st stage filter roll (30" x 1,800"; makes 120 filters) **\$89.95**

#82431 Roll filter tray (30") **\$64.95**

**Micro-Mark Tip:** Our MicroBRYTE™ USB rechargeable lighting system is a perfect fit for all of our spray booths, providing bright, color-adjustable lighting right inside the booth. Plus, all the mounting hardware you need for removable or permanent installation is provided. Upgrade your spray booth now with MicroBRYTE™! #89861 **\$34.95\***

#86105 Spray Booth Exhaust Duct with Window Vent  
**FITS MICRO-MARK AND ANY OTHER SPRAY BOOTH WITH A 4" OUTLET \$24.95**  
**2 or more \$22.95 each**



### Rotating Stands Position Models Perfectly for Airbrush Paint Application in the Spray Booth



The smooth-gliding bases of these fully rotating paint stands provide precise finger-tip control while airbrushing, even within the confined area of your spray booth. Set of 2 turntables (4.5" and 6.5" dia. x 4.5" tall) includes adjustable spring clips and molded-in slots that hold parts singly or while attached to sprue.

#83368 Tamiya Spray-Work Painting Stand Set **\$39.95**

### Paint Masks for HO Wheel Sets Keep Treads and Hands Clean

Precision-cut masks fit 33" and 36" Walthers Proto, Life-Like and Proto 2000 HO scale wheel sets. Set of 2 masks. Assembly required.

#86225 Acrylic Paint Masks (2) **\$21.95**



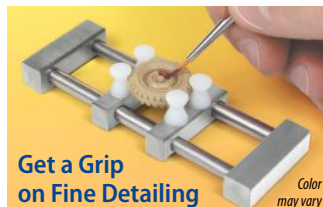
Set includes 2 precision-cut acrylic masks for painting HO wheelsets



#### #15143 Brush Cleaner with Drying Rack

suspends brushes in paint thinner, water and other solvents to loosen paint without damaging bristles.

4" x 2" aluminum tank with nickel plated spring holder includes removable screened basket for small parts cleaning as well. Holds brushes 5/32" diameter and up. Use with water, linseed oil, turpentine and more! List \$30.00... Our Price **\$16.95**



#### Get a Grip on Fine Detailing

Built-in springs and no-mar plastic pins grip small parts with just the right pressure to hold objects securely without damage. Perfect for painting, assembling, drilling and more. 4" long x 1-1/4" wide.

#83436 Spring-Loaded Parts Holder **\$11.95**

**3 or more \$8.95 each**

### A Micro-Mark Exclusive! Doc O'Brien's Weathering Powders



Doc O'Brien's weathering powders let you create an aged, well-worn appearance on scale vehicles, military models, structures, trains, aircraft and even figures. Ultra-fine **self-adhesive** powders are dusted on to simulate the effects of time and the elements... no overcoat required! They're also used as weathering washes when mixed with water. Kit contains enough material to weather dozens of models. Instructions included. Non-toxic.

12 color set includes Dirty Brown, Mildew Green, Grimy Black, Gritty Yellow, Rusty Red, Faded Blue, Rusty Brown, Grungy Gray, Patina Green, Desert Sand, Highlight White and Muddy Red.

#81632 Doc O'Brien's Weathering Powders **\$29.95**

#### A Micro-Mark Exclusive!

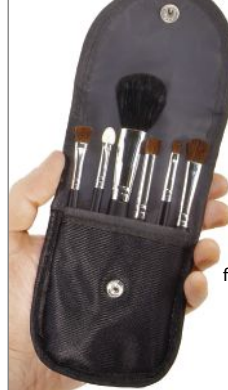


Powders and brushes are not included.

#### #90120 Doc O'Brien's Weathering Powders Rack

Designed in-house and manufactured in our own U.S. factory, this beautifully-designed laser-cut wood rack holds and organizes a complete set of 12 Doc O'Brien's Weathering Powder jars, or any other container up to 1-1/8" in dia. Three additional holes are provided for your favorite brushes. Middle shelf keeps jars from tipping. 9-3/4" long x 4-1/4" deep; 2-7/8" high. Assembly required. **\$19.95**

### Special Brush Set Applies Weathering Powders to Perfection



This 6-piece set of specialty brushes includes goat and pony hair bristles in the texture, stiffness and contour needed for perfect weathering powder application. The brush tips pick up just the right amount of powder and distribute it just where you want it. Then, use the large brush to blend powders right on the model for maximum realism. Use the foam applicator for spot application of washes that simulate the effects of rain water. Packed in a snap-shut soft nylon case which both protects the brushes and prevents powder residue from soiling other tools.

#85197 Brush Set for Weathering Powders **\$24.95**

#86324 Applicator Brushes, Set of 50 Great for use with weathering powders. Soft, pliable hairs pick up just the right amount of powder and gently deposit it around details, along rivet lines, and into cracks and crevasses, then softly blend colors for maximum realism. Also good for glue, paint touch-up and more. 3" long plastic handles. **\$11.95**



Set of 50 brushes for all kinds of projects!



## Sta-Wet Handy Palette Super Value Package



Keeps your paint fresh and ready to use.

### Package includes:

- #81415 Rinse Well • #85941 Sta-New Brush Holder
- #89655 Sta-Wet Handy Palette • #89657 Sta-Wet Sponge, 3 Pack • **BONUS!** Includes #89656 30-pack of Sta-Wet replacement acrylic sheets, a \$9.95 Value!

#89655K Sta-Wet Handy Palette Super Value Package Value \$83.75 **Super Buy \$69.95**

## RINSE WELL is Like Having a Sink on Your Workbench



The "Rinse Well" keeps you supplied with clean rinse water when brush painting with water-based paint. Just rinse your brush in the well. Then press the button and the dirty rinse water drains into the base while the well automatically refills with clean water. Saves time and eliminates the mess of filling and refilling several rinse containers. 7" diameter base; 20 oz bottle capacity.

#81415 Rinse Well **\$25.95**

## Keep Airbrushes Within Easy Reach and Out of Harm's Way

Our airbrush holder provides safe, secure storage for all airbrush brands... up to 4 at a time! Rubber-coated head tilts and rotates to hold your airbrush at the perfect angle for filling paint cups. Clamps to work surfaces up to 2-1/4" thick.

#83408  
Airbrush Holder **\$23.95**



## Milliput...the Master Modeler's Putty of Choice Worldwide

Milliput is the two-part, easy-to-use epoxy putty that molds like clay and cures to the hardness of porcelain. Use for scratch building, sculpting, customizing repairing, pattern making, gap filling, and thousands of other projects. Roll it as thin as 1/64" for making super detailed scale parts. Can be drilled, sawn, filed, sanded and painted when cured. Smooths with a wet finger and cleans up with water before it cures. Fully cured in 5 hours without heat or sooner with a hair dryer.

#81004 Standard Grain Milliput, gray color, net wt. 4 oz **\$9.95**



#81005 Superfine Grain Milliput, pure white, net wt. 4 oz **\$16.95**

Follow us on  

SUPPLIES

HAND TOOLS

POWER TOOLS

### A Micro-Mark Exclusive!

#83760X3 Railroad Tie and Bridge Stain simulates the look of weathered creosote-treated timber. Apply by brush or by dipping. Sold in a set of three 3-1/2 oz bottles. **\$28.95/set of 3**

Ships by ground to 48 contiguous United States only.



## Airbrush Cleaning Station



Cleans your airbrush without overspray. Keeps your airbrush in top working order anywhere your work takes you. Specially designed lid works with many brands of airbrushes. Incorporates a convenient built-in airbrush stand and easy-to-change filter assembly. Includes cleaning station, 2 airbrush tip fittings, 2 filters and 24 oz screw-top container to contain cleaning station without spills.

#84684 Table-Top Airbrush Cleaning Station **\$34.95**

#84725 Replacement filter for Airbrush Cleaning Station **\$9.95**



Hold-It Easy™...  
The Better  
Way to  
Paint  
Models

12" long handle keeps your hands away from overspray when airbrushing. Adjusts to hold models with inside dimensions from 1/2" to 5". Made of aluminum and steel with neoprene rubber jaw pads.

#80968 Hold-It Easy Handle **\$16.95**

## Mini Powered Paint Shaker Thoroughly Mixes Art and Hobby Paints with the Push of a Button!



Like a miniature version of the machines you'd find at your favorite home improvement center or professional paint supply store, our powered paint shaker produces a dynamic multi-directional action that quickly and effortlessly mixes all types of paints better and more thoroughly than you ever could with a stick or hand-shaking. Accommodates all small art and hobby size bottles and cans up to 1 oz. Plugs into standard household outlet.

#27162 Mini Powered Paint Shaker **\$69.95**

#27162A Paint Shaker Strap **\$1.95**



#80770 Holding Tool is great for holding micro size parts while painting, gluing or positioning. Tweezer-type jaws grip tightly with one hand by sliding knurled ring towards tip. Holds objects up to 3/32" thick. Made of stainless steel. 4-1/4" long. **\$12.95**

## Funnels for Filtering & Pouring Paint, Solvents and More



#83119 Miniature Strainer Funnel Set Stainless steel strainers trap debris long before it reaches your airbrush. Ideal for all types of hobby paint, these solvent-resistant funnels are the perfect size and shape to prevent spills while transferring paint from bottle to airbrush cup or siphon jar. Set includes 3 funnels: one each with medium, fine and extra-fine mesh strainers. Funnels clean up easily with solvent for use over and over again. **\$19.95**



#60392 4-piece Polyethylene Miniature Funnel Set is solvent-resistant and great for general purpose use. Set includes two 2" dia. with 1/4" neck and two 1" dia. with 3/8" neck. All have hang-up holes. **\$11.95**

## Cordless Mixer for Model Paints

Mixes paint in-the-bottle for consistent color every time. Just insert the spin disk and push the button. It even mixes old, settled paint. To clean, spin in a bottle of thinner. Handles bottle depth up to 3". Uses two AA batteries (not inc.).

#80975  
**\$10.95**



#29265 Micro-Mark Airbrush Paint Thinner, 8 oz This airbrush medium has been developed to adjust to the consistency of water-based acrylic airbrush paints and reduce airbrush clogging while preserving color and paint adhesion. Successfully tested with a wide variety of acrylic paint brands. **\$11.95**



#80923 Mask-It EASY Apply this high-quality liquid masking film where you don't want paint to stick. Works especially well in small crevices where masking tape is impossible to apply. Paint won't bleed through or seep under edges. Can be sprayed or brushed on. Dries in 1 to 2 hours. Thins and cleans-up with water. 8 fluid oz bottle. (Not for use on porous materials.) **\$12.95**





## Paints & More from AK Interactive



**#29197**  
AK Interactive 3G  
Human Flesh Tones  
Paint Set, 6 colors,  
.5 fl. oz. bottles.  
**\$33.95**



**#29198**  
AK Interactive 3G  
White Colors Paint Set, 6 colors,  
.5 fl. oz. bottles.  
**\$33.95**



**#29196**  
AK Interactive  
3G Neon Colors  
Paint Set, 6 colors,  
.5 fl. oz. bottles.  
**\$33.95**



**#90806 Sipa™ Liquid Chrome**  
**Paint Markers** provide bright, vivid,  
long-lasting mirror finishes on plastics,  
metal, glass, ceramics and other  
smooth surfaces. Set of three markers  
with tip sizes varying from 0.8 mm to  
3.0 mm. Sipa Markers won't dry out  
easily, even if the cap is left off for a  
period of time. They're oil based and  
dry to a durable and beautiful sheen.  
Perfect for scale modeling, detailing,  
lettering, personalization, graffiti,  
and more! **\$19.95**

**#29200**  
AK Interactive  
Weathering Pencils for Modeling  
Deluxe Edition 37-color Box Set. **\$89.95**

**#29199** AK Interactive 3G WWII & Modern  
U.S. Colors Adam Wilder Signature Paint Set,  
18 colors, .5 fl. oz. bottles. **\$94.95**



### Another Micro-Mark Exclusive!

#### Micro-Make™ Doctor DryBooth Cuts Paint Drying Time in Half!

Nothing stifles productivity and progress on model building, crafting and woodworking projects like waiting for paint to dry. After years of searching, development and testing, Micro-Mark has the solution – Micro-Make™ Doctor DryBooth. As one of the most sought-after and asked-for products ever, Doctor DryBooth delivers on the promise of cutting to a mere fraction the drying times of a wide variety of paints...including enamels. In our own testing, we found that a commercially produced styrene plastic model car body painted to full coverage with a popular spray enamel was dry to the touch in 25 minutes, dry enough to handle without fingerprints in 50 minutes, and cured hard and smooth in 75 minutes using Doctor DryBooth. The model exhibited no sign of melting, warp or other distortion. The same model car body, sprayed side-by-side from the same can of paint at the same time and under the exact same conditions, then left to air-dry, took more than double the time to be dry to the touch and much longer still to be fully hardened and cured.\*

**#88043 Micro-Make™ Doctor DryBooth** Available exclusively through Micro-Mark, Doctor DryBooth is a professional-quality product designed specifically for modelers and makers and built to exceed your expectations. The heart of this well-designed unit is its integrated warm air convection system, which circulates gently heated air through the cabinet and around your project, resulting in a superior finish in an incredibly short amount of time. Temperatures inside the cabinet can be set from approximately 135 degrees – great for finishing die-cast, other metals and wood – to approximately 100 to 105 degrees – ideal for plastic, resin and more. A built-in baffle beneath the circulating fan and clear tempered glass door keep dust particles at bay while your project dries. Time dial sets drying interval up to 25 minutes; Heat dial sets temperature. Interior dimensions of the metal cabinet are 10-1/2" wide x 13-3/4" high x 7-1/2" deep (1,082 cubic inches); overall size is 10-5/8" wide x 18" high x 8" deep. Includes 2 chrome-plated metal racks which can be adjusted to 13 positions within the cabinet, and 6' cord with standard plug for household outlets. List \$250.00 ... Our Price **\$199.95\*\***

*\*This case study was performed on our original Doctor DryBooth and is for general reference only. Your results may vary based on humidity, ambient temperature, type of paint and other factors. We recommend you perform your own tests for best results.*



**#83046 Airbrush Cleaning Kit** includes swabs, wood picks, micro brushes, scrub brushes, solvent-resistant funnel, pipettes, solvent cups, dispenser bottle, lint-free cleaning/polishing cloths and a pair of latex gloves. **\$16.95**

### Special Knife Makes Perfect Parallel Cuts in Masking Tape, Paper and So Much More!



If you've ever tried to use masking tape on models or other small projects, you know that wide tape just won't follow compound curves without buckling. Our Parallel Cutter will cut tape and a wide variety of other materials into strips 1/16" to 5/8" wide quickly and accurately. You can even cut circles using one blade as a pivot. Made of aluminum and steel. Includes 4 blades.

**#83651 Parallel Cutter \$34.95 #83652 Extra Blades (2) \$5.95**



### The Best Masking Tape...Ever!

This ultra-thin masking tape from 3M, used for creating wild designs on 1:1 hot rods, bikes, etc., will follow curves like no other you've ever tried... and because it's a flexible plastic, it conforms and clings to fine details. Tape holds tightly, yet is removed easily without leaving any adhesive residue. Use what pros use to get the sharpest edges ever!



**#60725 3M Tape, 1/8" wide x 36 yds. long \$13.95**  
**#60726 3M Tape, 1/4" wide x 36 yds. long \$14.95**  
**#60727 Set of one each 1/8" and 1/4" 3M Tape \$24.95**

**#86118 MicroLux® Mini Sandblast Gun Set** Fine abrasive grains remove old paint and rust without harming surface details...even on plastic...and inside recessed areas impossible to reach with any other method. Engraves intricate designs in metal and glass (when used with a stencil) and distresses wood as well. Operates from propellant can (order #85590 separately) or from any air compressor producing 30 to 45 psi (max: 65 psi). Set includes gravity-fed sandblast gun with 1/8" BSP male fitting, 15 cc (0.5 fl-oz) cup assembly with cover, 6' braided air hose, plus 1/8" BSP male to 1/4" BSP female adapter to fit typical hobby/art compressors, 4 oz of aluminum oxide abrasive, hang-up hook, air mask, and instructions. List \$90.00 ... Our Price **\$69.95**

**#84296 Paasche AEX-5**  
Aluminum Oxide Abrasive,  
5 Lbs. **\$29.95\*\***



**#88303 Tamiya masking tape, 18 mm (3/4") x 60' roll with dispenser \$8.95**  
**#88302 Tamiya Masking Tape, 40 mm (1-1/2") x 60' roll \$8.95**



**#90078 Chartpak® Graphic Art Tape**  
The thin, flexible 1/32" material is great for making curves and its permanent adhesive material works on a variety of surfaces, including plastic, whiteboard, glass, paper, wood, metal and ceramic. Great for mimicking metal bands on train loads! For indoor use only on clean, dry surfaces. 1/32" wide x 648" long, black crepe, 1 roll. Made in the USA. **\$7.95**



## Custom Brush Sets Offer Great Versatility for Makers



Custom-made for Micro-Mark, these high-quality paint brush sets brings together the most versatile and desirable sizes for the widest range of paints and applications. Premium nylon bristles hold paints, inks, dyes, etc. very well and keep their shape when treated with basic care. Handles are nicely formed and feel great in the hand. **\$9.95 per set**

**#90237 Micro-Mark 7-piece Flat Brush Set** Includes 7 brushes in the following sizes: P00, P01, P02, F01, F03, F05, F08.

**#90238 Micro-Mark 7-Piece Round Brush Set** Includes 7 brushes in the following sizes: P01, P02, P03, P04, P05, P06, P07.

## Keep Your Workspace Neat and Organized While Keeping Your Paint Brushes Clean and Ready-to-Use

Its clever, all-in-one, compact design takes up only 7-1/2" x 4" x 3" of space, yet holds up to 14 paint brushes, 8 ounces of water/cleaning solution, and includes a separate palette with lid, sponge and 10 sheets of 6" x 2" disposable palette paper – ideal for mixing new colors and then keeping them moist as you work. The cleaning



tank is divided into two equal 4-ounce containers for clean water and dirty water. A variety of ridges and combs molded into the tank are provided to gently remove paint from bristles without causing damage to brushes. The palette stores inside the top of the tank, covering the water/solution inside and preventing evaporation.

**#90222 Paint Brush Cleaning Station \$14.95**

**#90223 Palette Paper Refills.** Eighty 6" x 2" disposable sheets for color mixing. **\$6.95**

## More Innovative Painting Solutions from Infini Models



#90233



#90234



#90339

Make painting small parts easier by using these alligator-type spring clips. Use one per piece, or several to suspend longer pieces. **36 clips per package.** Choose style below.

**#90233 Infini Regular Paint Clips** Wood handle with metal clip. Pack of 36. **\$13.95**

**#90234 Infini Advanced Paint Clips** Metal handle with scratch-protecting silicone-coated tips on metal clip. Pack of 20 clips. **\$16.95**

**#90339 Infini Models Paint Clip Stand** Custom-designed to hold the paint clips above. Contains 1 stand, 1 Advanced paint clip, and 1 Regular paint clip. Made in Korea. **\$18.95**

**#90807 Deluxe Finger Palette by Galaxy Model** This ingenious micro-size paint palette is going to become the most-used tool in your painting arsenal! Features include two recessed wells for paint and/or thinner as well as 3 contoured brush wells for fine-tuning bristles. Suitable for various finger sizes, Finger Palette provides a 1.73" x 1.29" work space with ample room for mixing the perfect color right at your fingertips. Includes five reusable, clear, peel-&-stick mixing sheets for easy clean up. Once we tried the Finger Palette, we were hooked... and we you know you'll be too! **\$14.95**

**#90810 Replacement Mixing Sheets** Package of 32 reusable, clear, peel-&-stick mixing sheets for the Finger Palette. **\$7.95**

## Hunterline Weathering Mix

Use Hunterline Weathering Mix to create the most realistic finishes and effects on wood models, plastic, paper, cardboard, hydrocol and more. These alcohol-based stains dry quickly, preventing warp when used on wood. Creating infinite color variations is as easy as diluting the mix with common 70% isopropyl alcohol. Colors may also be "layered" for an even wider range of effects. Soap and water cleanup. Choose from 4 colors below. 8 oz bottle. **\$17.95 ea.\***

**#89367 Barn Red Weathering Mix\***

**#89369 Raw Siena Weathering Mix\***

## Micro Paint Palette Fits on Your Finger!



**#89368 Dark Brown Weathering Mix\***

**#89370 Shale Weathering Mix\***

## Make New Wood Look Old Instantly

**A Micro-Mark Exclusive!**

**Age-It EASY** Ready-to-use solvent-based formula penetrates deep into wood, creating the look of weather-beaten timber almost instantly. Age-It EASY does not warp wood like water-based solutions. Sold in sets of three **3.5 oz bottles.** **\$27.95/set of 3\***

**#80873X3 Age-It EASY Gray**

**#81528X3 Age-It EASY Brown**



**A. #60857 1/16" Plank Width \$24.95** **B. #60858 3/32" Plank Width \$24.95** **C. #60859 1/8" Plank Width \$24.95** **D. #60860 3/16" Plank Width \$24.95**

## Board-By-Board Decking/Siding

features individual planks of wood bonded together side-by-side with black glue in sheets 3" wide x 22" long x .050" thick. To give the wood a realistic weather-beaten look as shown in the photo, stain with Age-It EASY.

**#80339 Pic-n-Stick** is a 2-1/2" long plastic stick with a waxy adhesive on one end. To use, simply press the adhesive end against the part you need to hold. To remove, just twist. Adhesive grips tightly, but won't transfer to the part. Each stick can be reused many times. Great for holding tiny parts for painting, etc. 30 Pic-n-Sticks provided in two matchbook-style packages. **\$14.95**

## Pic-n-Stick... a Unique Way to Hold Things



## #90665 Eco-SmartFunnel™ Disposable Paper Funnels

A clean transfer every time! Supplied flat-pack to minimize storage space and keep them clean. Package of 5. **\$9.95**





## Fine Nylon Brush Set



Our moderately-priced craftsman brushes apply smooth finishes with either solvent or water based colors. Made with shed-proof nylon bristles, seamless ferrules and wooden handles.

**#81767** 10-piece set includes rounds #3/0, #2/0, #0, #1, #3, #5, shaders #2, #6, #10, and fine glaze #5/8. **\$24.95**

## Golden Eagle Brushes... Better Than Red Sable



ROUNDS		FLATS	
	Size		Price
#60409	5		\$6.95
#60410	3		\$5.95
#60411	1		\$5.95
#60412	2/0		\$5.95
#60413	5/0		\$5.95
#60432	Set of 5 - <b>SAVE!</b>		\$26.95
FLATS		Size	Price
#60448		1	\$5.95
#60414		2	\$5.95
#60415		3	\$5.95
#60416		4	\$6.95
#60433	Set of 4 - <b>SAVE!</b>		\$20.95



ANGULAR		LINERS	
	Size		Price
#60774	1/2"		\$8.95
#60775	3/8"		\$7.95
#60776	1/4"		\$5.95
#60777	1/8"		\$4.95
#60778	Set of 4 - <b>SAVE!</b>		\$24.95
LINERS		Size	Price
#60779		3/0	\$4.95
#60780		5/0	\$5.95
#60781		10/0	\$5.95
#60782	Set of 3 - <b>SAVE!</b>		\$14.95

## Micron Paint Brush Sets for Expert Paint Control and Comfort

These affordable, durable mini brushes are the perfect choice for super-detailed work. Micron brushes employ the finest synthetic hair, with seamless ferrules and unique, tri-color lacquered white birch handles. Thicker-than-usual handles give you comfort and expert control with all paints. 3 brushes per set. List \$20.00 ... Our Price **\$14.95/set**

**#86319** Detailers 15/0, 10/0 and 5/0

**#86320** Pointed Flats 15/0, 6/0 and 2/0

**#86321** Flat Shaders 15/0, 6/0 and 2/0

**#86322** Bent Liner 15/0, Fan Blender 3/0 and Shader Flat 2/0

#86319



#86320



#86321

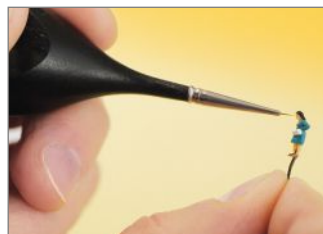


#86322



Handle diameter: 5/16" • Length: 6-3/4"

## The World's Smallest Paint Brushes?



These micro-miniature 30/0 brushes are perfect for tiny detail painting. The synthetic bristles are compatible with all types of paint and are held securely by seamless nickel ferrules. The specially contoured wood handle nestles comfortably into your hand, providing pinpoint control and eliminating fatigue. The flat surface on one side performs double-duty as a thumb rest and prevents the brush from rolling off your workbench. Overall length approx. 4-1/2". (Note: color may vary.) List \$15.00 ea. ... Our Price **\$11.95 ea.**

**#84648** Brush #3 **#84649** Brush #6 **#84650** Brush #9 **#84651** Brush #25 (for striping)  
**#84709** Set of 4 brushes – one each of above **\$39.95**



**#15139 Disposable Brushes** Economical, disposable brushes are great for wood glue, spreading epoxy, small parts dusting and cleaning, and paint touch-up. Horsehair bristles set in tin handles. 1/2" wide brush. 6" long overall. 48 brushes per pkg. **\$10.95**



Thin, light-weight, disposable cotton gloves let you handle models without leaving fingerprints. Protects both painted and unpainted surfaces. Also ideal for handling metal objects while polishing. One size fits all. 24 gloves per package.

**#70221** Cotton Gloves (24) **\$14.95**



**#84651** Brush #25 (for striping)  
**#84650** Brush #9  
**#84649** Brush #6  
**#84648** Brush #3

## Heavy Duty Denim Shop Apron Protects You from Messy Paints, Goopy Glues and More

Our below-the-knee-length blue denim apron is not only functional, but good looking as well. Has small pocket for pens, rulers, etc. and side pocket for whatever. Straps tie in the back. Completely washable.

**#60473** Denim Apron **\$19.95**



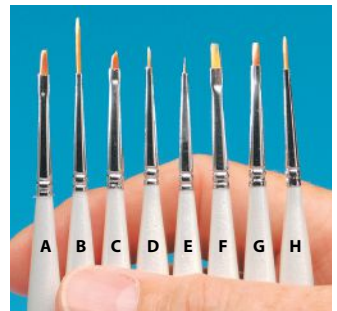
## Pipettes for Precise Liquid Measurement and Mixing

2 cc graduated polypropylene pipettes work like large eye droppers to precisely measure and dispense paint, resins, solvents and other liquids into mixing containers.

**#82607** Pipettes (pkg. of 20) **\$14.95**



## Specialty Brushes with the Handle You'll Love



These beautifully made brushes are ideal for models, miniatures, bird carvings, wild-fowl art and whenever super fine details are an important part of your project. The unique comfort-grip handles (about the same diameter as a pencil) let you paint with complete control for hours. All brushes are approximately 6" long with seamless nickel ferrules and smoothly sanded and lacquered hardwood handles. The extra fine synthetic filament is the same as we use in our Golden Eagle brushes. Use with solvent or water based paints. Imported from Japan.

- A. #81205** 10/0 Filbert **\$9.95** (rounded tip)
- B. #81206** 20/0 Script **\$9.95** (for pin stripes)
- C. #81207** 12/0 Angular **\$9.95** (tip cut 45°)
- D. #81208** 20/0 Round **\$9.95** (with sharp point)
- E. #81209** 20/0 Spotter **\$9.95** (for tiny details)
- F. #81210** 12/0 Grass Comb **\$9.95** (for grass, hair etc.)
- G. #81211** 10/0 Shader **\$9.95** (flat, straight tip)
- H. #81212** 20/0 Liner **\$9.95** (for thin lines)

**#81213 BEST BUY!** Set of 8 **\$69.95**



**#86328 Detail Brush Set** Long-preferred by expert model crafters, these brushes are just the right size for precise fine-point paint application and hold enough paint for good coverage without excessive reloading. Synthetic red sable bristles are suitable for both solvent- and water-based paints, and clean easily without bristle damage. Set of 6 brushes includes 3 each of #0 and #1 sizes, with 4-1/2" long white poly handles. **\$19.95**



**#29127 Tamiya Liquid Surface Primer, White**  
Use to prime surfaces for a perfect paint job every time.  
**Sold in a case of six 40 ml bottles. \$33.95**

*Ships by ground to 48 contiguous U.S. only.*



## Carousel Organizers Save Space and Keep Paints and Brushes Handy



#83149



#83150

Carousels are not only a pleasure to use, but also are a great way to clean up your work area and keep it organized. Heavy duty ball bearing bases allow carousels to spin almost effortlessly, making it easy and quick to find the right color. As a bonus, each carousel include a large knob for carrying and turning. Made of durable polymers with sturdy metal bearings. Designed to hold small paint jars from nearly every manufacturer. Each model includes assembly instructions with a template for drilling holes for paint brush storage, if desired.

**#83149** Model 40 Carousel has two shelves; holds 32 large bottles, 40 medium bottles or 60 small bottles (mix and match from 3/4 to 2 ounces). 11-1/2" diameter x 7-3/4" high. **\$39.95**

**#83150** Model 80 Carousel has four shelves; holds 64 large bottles, 80 medium bottles or 120 small bottles (mix or match from 3/4 to 2 ounces). 11-1/2" diameter x 17" high. **\$54.95**

*Removes caps and lids  
up to 5" in diameter!*



**#81313 Jar Opener** Adjustable tool easily removes caps from all sizes of paint jars in seconds. Also removes vacuum caps, snap-on caps and every other type of screw-on cap up to 5" dia. Made of chrome-plated steel. **\$11.95 2 or more \$7.30 each**



## Fold-Up Spray Booth Super Value Package

**A Micro-Mark Exclusive!**



### SPECIAL FEATURE!

2 spray booths connect together to paint items up to 31" long, then fold-up to save space.

Used individually,  
each spray booth is  
16" wide x 13" high  
x 15" deep; 16" wide x  
8" high x 6" deep when folded.

**Package includes:** TWO EACH #86104 Fold-Up Spray Booths • #86105 Spray Booth Exhaust Ducts with Window Vent • #86106 Spray Booth Filters (10 total).

**#87898** Fold-Up Spray Booth Super Value Package  
Value \$367.70 **Super Buy \$269.95\***

## Micro-Mesh Sanding and Polishing Products Create Glass-Smooth Finishes on an Amazing Variety of Surfaces



Softly padded, double-sided flexible files let you sand convex or concave curves, small slots and other hard-to-sand shapes without gouging or scratching. Each end of the file has a 15° taper for deburring, sanding and polishing hard-to-reach areas. Use them on wood, metal, plastic, fiberglass and most other materials. Clean with soap and water for longer life. 1/8" thick x 1/2" wide x 5-3/4" long. Use dry or wet for ultra-smooth finishes.

**#86128 9-piece Dual Angle Sanding File Set** includes 5 standard files for normal use, plus a set of 4 extra-fine files for removing imperfections and restoring clear plastic items. Works equally well on other plastic, metal and painted surfaces. Includes 60, 80, 100, 150, 180, 240, 400, 600, 800, 1200, 1500, 1800, 2400, 3600, 4000, 6000, 8000, and 12000 grits. **\$17.95**



#80939



#81601

**A Micro-Mark Exclusive!**

With grits ranging from 2400 to 12000, the Micro-Mesh Polishing Kit is not only ideal for creating or restoring a high-gloss finish on painted and unpainted surfaces, it can also be used for creating crystal clear finishes on full-size non-glass canopies and windscreens, polishing metals, and producing ultra-smooth finishes on wood. Kit includes everything you need to bring your next project's finish to a dazzling shine, whether used dry or wet: six 3" x 4" sheets of Micro-Mesh in 2400, 3200, 4000, 6000, 8000 and 12000 grit; foam sanding block; micro-gloss polishing cream; 13" x 17" non-woven polishing cloth, and instructions. **#80939** Micro-Mesh Polishing Kit **\$34.95**

### 4" x 6" Micro-Mesh Sheets – Only \$5.95 per sheet

#80940	#80941	#80942	#80943	#80944	#80945
2,400 grit	3,200 grit	4,000 grit	6,000 grit	8,000 grit	12,000 grit

Soft Touch Polishing Pads feature the same Micro-Mesh abrasives described above laminated to both sides of a 2" x 2" x 1/8" soft foam pad with rounded corners. Unique cushioned design, comfortable size and ergonomic feel provide additional control and less pressure for the more intricate contours and smaller areas of scale models. Set of 6 two-sided pads in the same grits as above. **#81601** Set of 6 Soft Touch Polishing Pads **\$13.95**

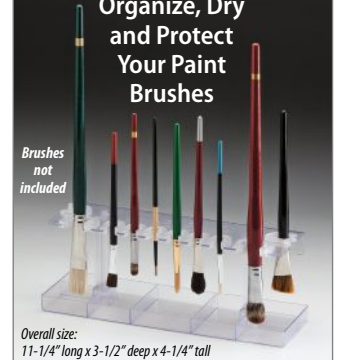
## Ultra-Precision Softback Polishing Sticks for Flawless Finishes



Unlike regular sandpaper which is prone to wrinkling and tearing, the cushioned sponge backing of Infini Model's Softback Polishing Sticks is designed to follow the contours of your project beautifully, resulting in a finer finish in less time. Each stick is double-sided for twice the life, with a semi-flexible plastic backbone in the middle for a firm grip and added pressure when working in confined areas. Set of eight 5-1/4" x 3/4" x 1/8" thick sticks includes one each 400, 600, 800, 1000, 2000, 3000, 5000 and 7000 grit. Use wet or dry.

**#88642** Softback Polishing Sticks **\$11.95**

## Organize, Dry and Protect Your Paint Brushes



Overall size:  
11-1/4" long x 3-1/2" deep x 4-1/4" tall

The Sta-New brush holder keeps 10 brushes neatly organized and lets them dry in the best way possible...bristles down. Clear plastic, compartmented base catches drips and keeps table top dry. Mounts to wall or workbench and snaps together in seconds.

**#85941** Sta-New Brush holder **\$24.95**

## Clean and Protect Your Paint Brushes for a Long, Useful Life



After cleaning your paint brushes, give them the Brush Saver treatment. A final rinse in Brush Saver cleaner/conditioner removes deep down paint particles and leaves the bristles clean, soft and pliable, ready for your next painting session. 16 oz bottle.

**#86591** Brush Saver, 16 fluid oz **\$18.95**  
*Ships by ground to 48 contiguous United States only.*



## Micro-Mark FlexCam is the Next-Best Thing to X-Ray Vision!



For all the times you've thought, "If only I could see into..." this amazing tool is for you! With a high-resolution, self-illuminating camera measuring only 8 mm in diameter integrated into the end of a 9.8' long flexible digital video transfer cable, you will not only be able to see that which was previously unseen with remarkable clarity and detail, you can even capture and save still images and real-time video.\* Whether in total darkness, inside the smallest of spaces and even under water, FlexCam opens up a whole new world for viewing, inspecting, examining and diagnosing that which could never be seen before with your eyes alone.

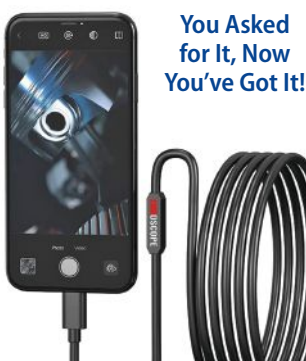
The FlexCam system places a tiny full-color camera at the end of a flexible, yet resilient cable that sends high-resolution real-time video to its scratch-resistant 4.3" solid glass, 1080P HD LCD screen. Six brightness-adjustable LEDs surround the durable camera lens, providing as much illumination as you need to clearly see in the tightest of spaces, even in total darkness. With a focal length of approximately 1.5 inches to over 16 feet, FlexCam provides exceptional versatility for a wide variety of applications. A push-button control pad integrated into the viewing screen operates all of the camera's functions, including image up, down and rotation, brightness, image capture and more. Equipped with IP67 waterproof technology, FlexCam's camera can remain one meter under water for up to 60 minutes of continuous use without damage. Internal 2600mAh large-capacity USB-rechargeable battery provides up to 4 hours of working time; recharges to full capacity in 3.5 hours. LED indicator shows when the unit has reached full charge.

Model builders use FlexCam to show off all of that unseen detail painstakingly included inside their models; model railroad enthusiasts use it to locate trouble spots with track and wiring in otherwise inaccessible areas inside tunnels, behind buildings and under benchwork; DIYers and tradespeople use it to inspect and diagnose hidden issues inside walls, under cabinets, behind appliances, even inside pipes and conduits; mechanics use it to examine the interiors of combustion chambers and behind dashboards. The list goes on and on. The bottom line is that FlexCam is so versatile that there are literally hundreds of applications that make it an indispensable tool for just about everyone.

Micro-Mark FlexCam Set includes a detachable 4.3" LCD 1080P HD viewing screen with push-button camera controls and built-in micro SD card slot for image and video capture\*, molded handle, detachable 9.8' (3 meter) flexible camera cable with 1920\*1080 resolution camera lens and six brightness-adjustable LEDs, 4 handy camera-tip accessories: magnet, hang-up hook, side-view mirror and protective cap, USB charging cable, and user's manual.

**#90063 Micro-Mark FlexCam Set. List \$175.00 ... \$129.95**

*\*Image and video capture requires a readily-available micro SD card. Micro SD card is not included.*



**You Asked for It, Now You've Got It!**

### Phone-Compatible FlexCam is Here!

- Compatible with Android and Apple Mobile Phones using the included adapters.
- Allows vision into extremely difficult to reach areas.
- Capture and save images and videos, 2 adjustable resolutions 1280 x 960 and 1920 x 1440.
- High-resolution, self-illuminating camera on 9' cable reaches the darkest places, even underwater.

**#90944 Micro-Mark Mobile Phone FlexCam \$44.95**



### #90734 60x Clip-On Pocket Microscope

Just clip it on over the camera lens on your phone or tablet, and this powerful, portable, go-anywhere microscope is ready to show you the world as you've never seen it before. 60x magnification microscope features adjustable focus and built-in, adjustable LED light. Great for evaluating currency, jewelry, antiques and more, this amazing and affordable instrument also has a wide range of applications for model-building, crafting, repair work, and much more. Microscope is compatible with most smartphones and tablets. **\$9.95**



### #90739 LCD 1000X High Definition 1080P Digital Microscope

Specially designed for a wide range of practical uses, including micro electronic repairs and soldering, scientific studies of insects and plantlife, inspection of fabrics, coins, and so much more, this powerful, yet affordable Digital Microscope brings the micro world into sharp focus. View your subject from 50x larger to an unbelievable 1000x enlargement on the 4.3" LCD display panel with both eyes open and be amazed by the striking clarity and color the 1920\*1080P high resolution technology provides. **\$74.95**

## StereoBlue

## Scientific-Quality, CE Certified Trinocular Stereo Zoom Microscope

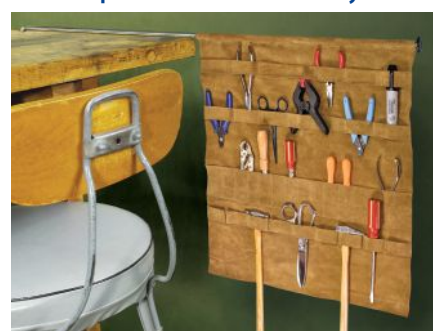


Recognized by biologists, entomologists, geologists, mechanical and electronic engineers and other professionals including jewelers and dental technicians, these microscopes are ergonomically designed to minimize fatigue and deliver crisp, high-resolution images. With features including zoom magnification from 7x to 45x and incident and transmitted LED illuminations, the StereoBlue series exceeds the demands of laboratory and higher education settings. This premium quality instrument is backed by a ten year manufacturer's warranty.

**#91030 StereoBlue Trinocular Stereo Zoom Microscope \$822.00**

**#91032 CMEX-5 Pro, 5.1 MP digital USB-3 camera with 1/2.5" CMOS sensor.** This optional accessory is used to capture high-quality images and video with item #91030 above. Camera provides great color reproduction and low signal-to-noise ratio. Includes ImageFocus Alpha capture and analysis software. Windows 10 and 11 (32 & 64-bit) compatible. **\$651.00\*\***  
*Items above ship by ground to 48 contiguous U.S. only.*

## Space-Saving, High-Quality Leather Bench Apron Stores Tools in Easy Reach



The Bench Apron is suspended from a sturdy, telescoping steel rod that you attach to your workbench with a reversible bracket (included; screws are not provided). This heavy-duty leather apron features high-quality stitching and has 38 pockets for holding a wide assortment of tools. When not in use, simply push the apron back in and out of the way until you need it again. Use one on each end of your workbench to increase storage capacity without losing any precious space. Installation takes just 5 minutes. Beware of cheap imitations – this one is the real deal! **Tools are NOT included.**

**#90962 Bench Apron \$39.95**



## The Future of Lighting is Here...Introducing the BRYTE™ Line by Micro-Mark

Built upon the latest advances in LED and battery technology, and incorporated into innovative product designs, the Micro-Mark BRYTE™ Line takes portable and wearable lighting to the next level. For ultimate reliability and portability, each BRYTE lighting product includes a built-in USB rechargeable battery, so you'll never have to fumble around in the dark trying to find the right size disposable batteries. Simply plug your BRYTE product into any USB port to charge up and go. Integrated LEDs provide brilliant light with superior efficiency and virtually zero heat, allowing you to use your BRYTE product for hours on end without recharging, even at full intensity. The Micro-Mark BRYTE Line is perfect for every type of work, DIY project, and recreational activity where good lighting makes all the difference. **SPECIAL OFFER! Buy all 5 BRYTE items together using item #90530K and SAVE! #90530K...\$109.95\***



**#90530 BRYTE Band™ LED Headband Light** Wherever you go, wherever you look, BRYTE Band™ lights the way – even in the rain! This ingenious, water-resistant device is the next-level Headband Lighting System. 300 Lumen ultra-bright, high-efficiency COB and XPE LEDs mounted in a durable, stretchable and comfortable silicone headband illuminate up to 150 feet away with a 230° field of vision. A single switch activates five different modes, allowing you to select between maximum or standard brightness of both the front-mounted LED light strip and the side-mounted single LED, plus a strobe mode which flashes both simultaneously. Also features a side-mounted sensor which can turn the lights on and off with a wave of your hand. Built-in 3.7V USB rechargeable lithium polymer battery provides 2.5 to 8 hours working time. Includes USB charging cable. Fully-adjustable band ensures that one size fits all. **\$39.95\***



**#90777 BRYTE Eyes™ LED Illuminated Magnifying Glasses** These classically-styled, +2.5-strength magnifying glasses bring a new level of clarity to your vision while you work, read, inspect, etc. Twin side-mounted LEDs are optimally placed to eliminate glare and eye strain while illuminating that which you are viewing in bright, crisp, focused light. Scratch-resistant, hard plastic lenses are mounted in durable, sleek, black acetate frames, so they go where you go and look good doing it. Includes built-in USB rechargeable battery that provides up to 2.5 hours of light on a single one-hour charge, discreet On/Off switch, and special twin-plug USB charging cable. **\$19.95\***



**#90677 HandyBRYTE™ Glove-Mounted LED Light System**  
**\$16.95\***

HandyBRYTE™ literally puts brilliant lighting at your fingertips. Aim the LEDs exactly where you need them while you work without impeding dexterity. Super light-weight, highly flexible fabric is very comfortable and moves with you, and the hook-and-loop closure wrist strap easily adjusts for optimal fit. Includes one pair of HandyBRYTE gloves with two LED lights on each, on-board USB rechargeable 3.7V lithium-ion battery, and USB charging cable. One size fits all.



**#90673 PocketBRYTE™ LED Penlight**  
At only a little over 5" long and just .5" in diameter, PocketBRYTE™ may be the smallest of

the BRYTE Line, but don't let its tiny size fool you – the beam of light it puts out will surprise you with its brilliance and clarity from across the room and beyond. Includes light-weight, non-magnetic stainless steel body, On/Off switch, pen clip, wrist strap and USB charging cable. Bring the light anywhere and everywhere you go with PocketBRYTE. **\$12.95\***



**#90531 Two-Port USB Wall Charger** Perfect for use with our BRYTE Line products, just plug into any standard household outlet and charge up to two devices simultaneously. Works with any cable with a USB Type A connector on one end. **\$9.95**

**MicroBRYTE™ by Micro-Mark is a Go-Anywhere "Magic Wand" of Light**

MicroBRYTE™ puts brilliant, sharp-focused, color-adjustable LED lighting wherever you want it to go, no cords, no cables, no boundaries! At less than 1" in diameter and 12" long, this versatile light gives off virtually zero heat and can be hand-held or mounted to shine its 200 lumen beam up, down and sideways. Includes a high-capacity 3.7V rechargeable lithium-ion battery built into its sturdy satin nickel finished metal housing. Touch-control button activates the LEDs and allows the user to switch between neutral white 4000K, cool "daylight" 6500K, and warm 3000K light; press and hold the button to control the brightness from 2% to 100%. Work for up to 10 continuous hours with the dimmer at 50%, or up to 4 hours at 100%; then use the included USB cable to recharge. In 2 to 3 hours, you're ready to do it all again. Or, leave it plugged in and let the light shine on as long as you wish.

**Complete set includes:** MicroBRYTE light, 3' USB cable, 1 removable magnetic mount, 1 screw, 1 mounting plate and 1 pre-cut, double-sided 3M foam adhesive pad.

**#89861 MicroBRYTE™ by Micro-Mark**  
List \$42.00  
Our Price **\$34.95\***



- **Articulated Arm extends 26".**
- **Mounting clamp attaches to table tops up to 2-1/4" thick.**

**#90812 iGaging® E-Z View LED Desk Light & Magnifier**  
8x magnifying, LED desk light is packed full of features. Offers X-Y-Z axis universal movement, 3 color modes (white, soft, warm) with adjustable intensity, a 16x power spot lens, 5" diameter, EZ-view glass lens, extra-large viewing area, and 50" USB power cord with in-line on/off switch. Simply plug into any USB port or wall outlet to power it for compact, go-anywhere lighting and magnification! **\$59.95**



**#85594 High Intensity LED Worklight** Includes 3-mode switch for high beam, low beam and flash. Light is housed in a compact aluminum body with 1x2000 zoom fisheye lens. Includes a detachable 8" flexible arm with a super-strong – 40 lbs. of pull – magnetic base. Worklight is ideal for use on the steel work tables of machine tools, automotive applications and other magnetic surfaces. Includes 3-cell AAA battery. **\$39.95**



### #90568 Dual Drive Ratcheting Driver Set

**A Micro-Mark Exclusive!**

This sleek, slick, recently-patented driver does what no others can: drive both 1/4" shank bits and 4 mm shank bits with the same tool – no adapters necessary! The magnetized, spring-loaded bit retainer features an ingenious 2-step design which securely holds the shorter-shank 1/4" bits at the outer first step, and the longer 4 mm shank bits within the deep-set second step. The double-anodized 5.25" handle has the look and feel of a fine watch, but it's a real workhorse on the bench and in the field, with 3-way ratcheting action, deeply knurled diamond grip and smooth-glide swivel cap. Set includes ratchet handle, seven 1/4" shank bits (1, 2, and 3 Phillips; 4 and 5 mm slotted; 3 and 4 mm hex), ten 4 mm shank bits (000, 00 and 0 Phillips; 1.0, 1.5 and 2.0 mm slotted; 2.0 and 2.5 mm hex; T6 and T8 Torx), and a sturdy, well-made hard plastic case with dual stand-up bit indexes and strong latches magnetic closure. A beautifully-made, superior-quality tool at a surprisingly low introductory price. **\$24.95**



**PATENTED!**

**Drive 1/4" Bits and 4 mm Bits with the Same Tool – No Adapters Necessary!**

### #90525 26-Piece SAE (Inch) and Metric Bolt, Screw and Nut Checker Set

Each individual checker features a male-threaded stud on one end and a female-threaded hole on the other. Permanent, easy-to-read size markings are laser-etched into each carbon steel checker. For use with the following Inch sizes:

1/2" x 20,  
1/2" x 13, 7/16" x 20,  
7/16" x 14, 3/8" x 24,  
3/8" x 16, 5/16" x 24, 5/16" x 18,  
1/4" x 28, 1/4" x 20, 10-32, 10-24, 8-32 and  
6-32. Metric sizes: M12 x 1.75, M12 x 1.5, M12 x 1.25,  
M10 x 1.5, M10 x 1.25, M10 x 1.0, M8 x 1.25, M8 x 1.0, M7 x 1.0, M6 x 1.0, M5 x .8, M4 x .7. **\$29.95**



## Optivisor Magnifier Provides Hands-Free Magnification



The Optivisor Binocular Magnifier gives you 3-dimensional viewing by providing magnification for both eyes simultaneously. Optical quality glass lens magnifies objects 2.5x 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. Optional loupe doubles the magnification of any lens plate.

### Optional Optivisor Lens Plates \$39.95 ea.

Item #	Magnifies	Working Distance
#52387	1.50x	20 inches
#52388	1.75x	14 inches
#52389	2.00x	10 inches

#18108 Optivisor Binocular Magnifier List \$80.00 ... Our Price **\$69.95**  
 #18110 Loupe Attachment for Optivisor **\$19.95**



## Optivisor Professional Series Magnifier Set

Set includes Optivisor magnifier described above, six lens plates (1.50x, 1.75x, 2.00x, 2.50x, 2.75x, 3.50/2x) and attachment loupe, all packed in a sturdy, custom-fit, foam-lined case. **#84431 Optivisor Professional Set \$349.95**

## Custom-Fit Lighting for Your Optivisor



Optivisor not included.



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 **\$34.95**

## 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. +2.00 power lenses magnify 1.50x at a working distance of 19". +4.00 power lenses magnify 2.00x at a working distance of 10".



#86416

#82078 +2.00 Magnifiers **\$11.95** #82080 +4.00 Magnifiers **\$11.95**

#86416 Set of both Clip-On Magnifiers (one each). List \$28.00 Our Price **\$17.95**



## LED Lamp / Magnifier Puts Shadow-Free Light Just Where You Want It

The sturdy, all-steel articulated arm of our Lamp / Magnifier puts the power of 90 long-lasting LED lights right where you want them, illuminating your work area with brilliant, cool white, shadow-free light. Unlike fluorescent lamps, this 7 watt, 1000 Lux LED-equipped model is completely silent and the light is strong and continuous; no annoying hum or distracting flicker. The 5" diameter optical quality lens enlarges to 1.75x actual size at working distance of 13" (3 diopter). Convenient bench-mount clamp attaches in seconds to any tabletop up to 2-3/8" thick. Spring-balanced arm extends up to 36", providing excellent mobility, and the integrated lock knobs keep the lamp exactly where you want it while you work.

#86547 Articulated LED Lamp with Magnifier **\$79.95**



## Desktop LED Lamp with Magnifier

60 LEDs providing 1200 lumens of diffuser-softened light at the end of a flexible, omni-positionable 18" arm wrap your work in a cool glow similar in strength to a traditional 75 watt bulb, great for all kinds of desktop projects. For detail work, flip the lid to reveal a 5" diameter, 3 Diopter lens (1.75 magnification) with a comfortable 8" focal length. Increasing this lamp's versatility is a handy 4 compartment storage bin at the back of its no-tip base for small tools, pens and more. 6' cord. 120V/60Hz.

#88821 Desktop LED Lamp with Magnifier **\$54.95**

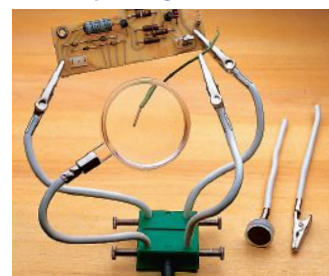
## Deluxe Lighted Magnifier Adjusts to Four Magnifications



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 **\$39.95**

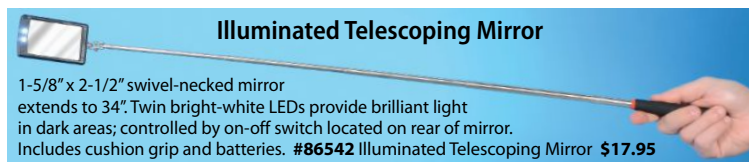
## 4-Armed Holding Jig for Gluing, Soldering, Painting, Inspecting and More



This "third hand" securely holds small objects in any position and leaves your hands free. 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 clamps, 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 List \$30.00 ... Our Price **\$14.95**

## #85095 Helping Hand Magnifier 2-1/2" diameter, 4x magnifier and 2 alligator-type spring clamps mounted in ball joints. Plated steel with iron base. **\$11.95**



## Illuminated Telescoping Mirror

1-5/8" x 2-1/2" swivel-necked mirror extends to 34". Twin bright-white LEDs provide brilliant light in dark areas; controlled by on-off switch located on rear of mirror. Includes cushion grip and batteries. **#86542 Illuminated Telescoping Mirror \$17.95**



## A "BRYTE" Idea for Makers and DIYers

A Micro-Mark **Exclusive!**

Built upon the latest advances in LED and battery technology, and incorporated into innovative product designs, the Micro-Mark BRYTE™ Line takes portable and wearable lighting to the next level. For ultimate reliability and portability, each BRYTE lighting product includes a built-in USB rechargeable battery.

**5 piece set includes:** #90530 BRYTE Band™ LED Headband Light • #90777 BRYTE Eyes™ LED Illuminated Magnifying Glasses • #90677 HandyBRYTE™ Glove-Mounted LED Light System • #90673 PocketBRYTE™ LED Penlight • #89861 MicroBRYTE™ Light Wand.

**#90530K Micro-Mark BRYTE™ Collection \$109.95\***



**#89491 Zoom Hands-Free Magnifier with LED Light**

This new high-tech spin on the concept of the visor magnifier includes five interchangeable lenses from 1x to 3.5x magnification, protective lens case, elastic comfort headband and microfiber cleaning cloth. *Requires three AAA batteries (not inc.)* **\$29.95**

## Take Professional-Quality Photos in Your Home or Shop

**Ideal for miniatures, collectibles, insurance records and web auctions!**

**American Recorder Technologies Photo Studio In-A-Box® SIB-110** is a lightweight, portable stage that unfolds easily to set up on desktop, workbench or dining table. Use it with your camera to produce well-lighted images with balanced color and remarkable definition. The SIB-110 is the next generation in desktop photography and is better than ever, utilizing the latest LED technology for improved brightness, higher efficiency and long LED life. In addition, the SIB-110 includes four seamless, non-reflective, untextured backgrounds in white, black, medium gray and warm beige to enhance versatility and creativity! **All 120 LEDs are INSIDE the box!**

## Great new features include:

16"x 16"x 16" photo box produces a beautiful, even, overall light while reducing shadows and glare; 120 super-bright, cool-running, built-in LEDs; daylight temperature illumination for most accurate color rendition and clearest detail; four interchangeable backdrops for maximum variety and contrast; adjustable camera stand; power supply plugs into standard household outlet.

**#89511 Photo Studio In-A-Box® SIB-110**

List \$159.95 ... Our Price **\$124.95**



Camera and model are not included.



**#89907 Micro-Mark Lens Cleaner** safely and quickly cleans glass and acrylic eye-glasses, sunglasses, magnifiers, goggles, safety glasses, and more. To use, gently squeeze the soft-touch pads until they touch the surface, then simply wipe away smudges, dust, etc. **\$6.95**



**#89333 Professional 11-piece Marking and Measuring Set**  
List \$80.00  
Our Price **\$59.95**

**Set includes:** 6" metric/standard ruler with a conversion chart on the back; 9" protractor with depth gauge; 6-1/2" bore/cylinder gauge; 48-leaf screw and pitch gauge with standard and metric markings; 2" screw-cutting profile gauge; 4" angle setting gauge; 4" machinist square; 5" marking awl; 4" brass vernier caliper; 5" brass automatic center punch and 7" steel square-legged divider; all packed in a sturdy, foam-lined case.

## Wide Base Vertical Steel Mini Squares



Count on these specially designed, hardened and machined Steel Mini Squares to make the most accurate and true markings you've ever seen. Notched inside corner prevents accumulation of debris.

**#89328 Wide Beam Mini Square, 2"** **\$17.95 ea., 2 or more \$14.35 ea.**

**#89329 Wide Beam Mini Square, 3"** **\$19.95 ea., 2 or more \$17.95 ea.**

**#89330 Wide Beam Mini Square, 4"** **\$24.95 ea., 2 or more \$22.25 ea.**

## Palm-Size Micro Measurement



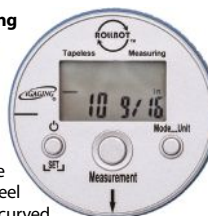
**#87942 iGaging Lighted 10x Measuring Magnifier** features distortion-free lenses and 8 bright LEDs for super-accurate close-up work and precise 0.0005" scale micro measurement of length, diameter, radii, angles, pitch and thickness. Includes lined leather case with snap closure. A high-quality ISO 9001 certified measuring instrument. List \$85.00 ... Our Price **\$57.95**



**#87779 Precision Double Square Set, 4" and 6" Rulers**

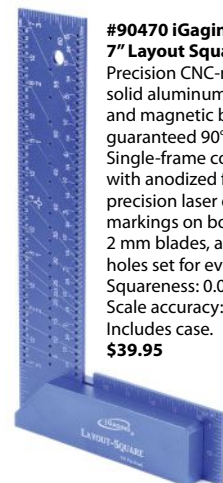
slide in lockable groove; marked with easy-to-read 8th, 16th, 32nd, and 64th inch graduations. Precision ground beam measure 1-7/16" long x 1-1/16" high x 9/16" thick for 4" square; 3-3/4" long x 1-1/4" high x 5/8" thick for 6" square. **\$34.95**

**#89750 iGaging Rollbot Multi-Function Tape-Less Measuring Tool** uses a serrated ring around its edge to roll like a wheel across any flat, curved, or irregular surface with the measurement appearing on a digital LCD. Rollbot not only easily measures linear dimensions like the length of a board; it can also calculate the square inches of a board face, board feet, the round area and diameter of cylinders, and corner and inside measurements. Rollbot handles any size up to 144", at up to 18 feet per second. **\$27.95**

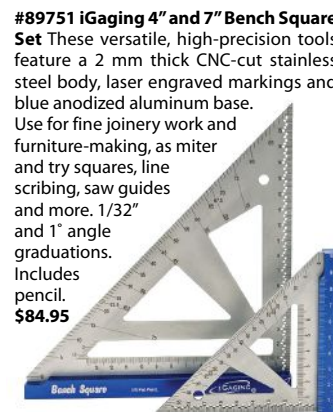


**#90470 iGaging 7" Layout Square**

Precision CNC-machined solid aluminum blade and magnetic base for guaranteed 90° square. Single-frame construction with anodized finish and precision laser engraved markings on both sides of 2 mm blades, and marking holes set for every 1/16". Squareness: 0.0002" per inch; Scale accuracy: 0.001". Includes case. **\$39.95**

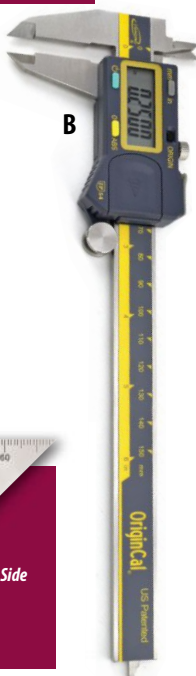
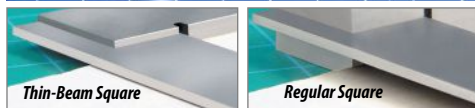


**#89751 iGaging 4" and 7" Bench Square Set** These versatile, high-precision tools feature a 2 mm thick CNC-cut stainless steel body, laser engraved markings and blue anodized aluminum base. Use for fine joinery work and furniture-making, as miter and try squares, line scribing, saw guides and more. 1/32" and 1" angle graduations. Includes pencil. **\$84.95**





A Micro-Mark Exclusive!



## A. Special Squares for Marking and Cutting Thin Materials

Use our Thin Beam Squares to mark and cut thin wood and plastic. The extra-thin profile of the beam allows the blade to stay in close contact with the surface of the workpiece, so scribe lines and knife cuts will be super-accurate. 90° version works on sheet and strip stock up to 4" wide and as thin as 1/16"; 45° version works on sheet and strip stock up to 2-3/4" wide (or 5-1/2" wide by flipping the square over to the opposite edge) and as thin as 1/16". Blade and beam are 3/4" wide. Made of ground steel.

#83261 90° Thin-Beam Square \$19.95

**NEW!** #89813 45° Thin-Beam Square \$19.95

## B. Absolute Origin Digital Caliper Has Data Capturing Capability

Absolute origin technology memorizes zero by displaying the actual sensor position, making resetting to zero obsolete. Combined with data capturing capability from its built-in data port,\* this caliper is one of the most sophisticated measuring instruments of its kind. Includes hardened stainless steel ruler beam, moisture-resistant housing, two 3V lithium batteries, and fitted foam-lined polymer case. ISO 9001 certified.

\*Requires #86717 USB Interface and Cable, sold separately on the next page.

#87943 Absolute Origin Digital Caliper \$57.95

## C. NEW! Zona 3" Triangle Precision Ruler is Great for Miniatures and More – Fits in Your Pocket

Convenient, compact and handy, this 3" Triangle Precision Ruler is made from durable .022" thick stainless steel with 1/32" measuring intervals on one side and centimeter markings on the other side in 1 mm intervals. Perfect 90° angle is great for working on miniatures and models, plus many other uses in woodworking, crafting and DIY projects. Triangle design provides one of the easiest and best ways of measuring equal distances from a corner for constructing frames, boxes and other square objects. Made in USA by Zona.

#91050 Zona 3" Triangle Precision Ruler \$10.95

## D. Digital Scale Reads in Ounces and Grams

High-precision, 11 pound (5 kg) capacity weight scale with digital readout in 0.05 ounce or 1 gram increments. Includes tare feature and auto shut-off to conserve power. 5" diameter platen.

#83825 Digital Scale. List \$40.00 ... Our Price \$29.95

## E. Proportional Divider Scales Drawings Up or Down in Seconds

A proportional divider helps artists, designers and other makers create accurate scale drawings by transferring measurements from a source to a drawing. No need to measure, calculate and re-measure when working from scale plans and renderings...our proportional divider does the number crunching for you! It works by allowing the user to adjust the location of the pivot point, which determines the ratio of the drawing to the source, from one end of the tool to the other. Moving the pivot point closer to the tip of the divider makes the drawing larger than the source. Conversely, moving the pivot point in the opposite direction makes the drawing smaller than the source. This all-metal precision instrument includes instructions.

#14129 Proportional Divider. List \$165.00 ... Our Price \$139.95

## F. Dimensioned Mini Square Cuts Layout Time in Half

Our mini square has markings on both the outside and inside edges so that measuring and marking is quick, easy and accurate. And it's made of stainless steel, so it also works as a cutting guide for your knife. Especially handy for measuring and cutting scale model window openings and glazing. 3" x 4" overall with acid-etched 1/32" increments for a lifetime of use.

#82147 Mini Square \$9.95

## G. Stainless Steel Model Railroader's Ruler

Scale graduations in HO, O, S and N, plus inch and millimeter calibrations. Also includes a decimal equivalent chart and reference table on the opposite side. A versatile ruler for the model railroader. 1" wide x 12" long. Stainless Steel.

#10116 Model Railroader's Ruler \$14.95

## H. Rotape Compass Measures and Draws Large Circles Instantly

Using the Rotape is fast, easy and accurate: simply place the compass point on center, pull the tape out to the desired radius (between 3-1/2" and 6'), and draw your circle. Rotape marks paper, wood, cork, drywall, metal, fabric, concrete, plastic and more. And a special gauge is molded into the bottom of the pocket-size tape housing so you can also mark lines parallel to an edge.

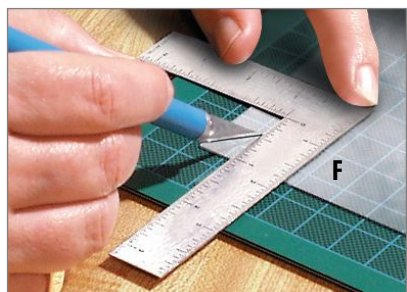
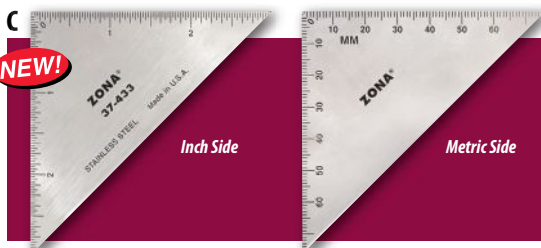
#82624 Rotape Compass \$39.95

#82626 Rotape HB Pencil Leads – package of 10, pre-sharpened \$5.95

## J. Clamp-On Trammel Points

Clamp-on Trammel Points attach to beams up to 1-1/4" thick by any width or length. One end has a hardened steel point to act as a pivot. The other end is dual-function: holds either another point (included) or a standard pencil.

#83187 Clamp-on Trammel Points \$14.95







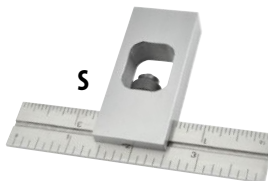
**These readouts are available in 6", 12" and 24" capacity to suit your application**



Housing may vary



Housing may vary



**K. Digital Readout Kits** for metalworking and woodworking machines include a remote digital display that can be positioned up to 6 feet away for easy viewing. Readings are displayed in .0005", 1/128", and .01 mm increments. Resettable to zero at any position. Includes USB data port, AC adapter power port, mounting hardware and batteries. Available in 3 different lengths.

**Aluminum Beam** #86713 6" capacity \$39.95 #86714 12" capacity \$44.95 #86715 24" capacity \$54.95

**Heavy Duty, High-Accuracy Stainless Steel Beam** #86711 6" capacity \$64.95

**Accessories for all Readout Kits** #86717 USB Interface and Cable (see website for details) \$99.95 #86718 AC Adapter \$14.95

**L. #82556 6" Digital Caliper** displays in easy-to-read LCD numerals. Measures insides, outsides, depths and steps with a resolution of .0005" or .01 mm. "Zero" button lets you take "2-step" measurements without calculations; instantly converts inches to mm and back. Made of hardened stainless steel. Includes battery, instructions and foam-lined case. **\$39.95**

**M. #83762 Fractional Digital Caliper** includes all the features of the above Digital Caliper, plus direct reading in fractional inches. Resolution in fraction mode is 1/64". **\$49.95**

**N. #84735 Digital Thickness Gauge** Push jaws into contact with object surface to quickly and accurately measure thickness. Press a button to display decimal inches, fractional inches or millimeters on large LCD. Measuring range 1". Readability: .001", 1/64", 0.01 mm. Includes on/off switch, hold button to retain last reading, and battery. List \$50.00... Our Price **\$44.95**

**P. Center Squares** are used to find and mark the exact center of round, square and octagonal parts without calculations. Just insert the item into the "V" of the square and mark a line. Then, rotate the piece 90° and mark again. Made of precision ground steel.

**#82285 Center Square** for stock up to 2-1/2" **\$14.95**

**#83280 Center Square** for stock up to 5" **\$29.95**

**Q. #88489 iGaging 7" Bench Square** 2 mm-thick, blue anodized body features precision laser engraving with 1/32" graduations. Includes case. **\$44.95**

**R. #60299 Angle Setter/Protractor** is perfectly sized for miniature construction projects. Beautifully made of stainless steel with engraved and blackened hair-line markings. Doubles as an 8" ruler when extended. 5" long when folded. **\$19.95**

**S. #85936 Miniature Double Square** All six sides of the tool steel head block are ground accurate, square, and true. Thumb nut holds 4" scale in secure position end-to-end. Head block is 1/2" thick x 1" wide x 2-3/8" long. **\$14.95**

**T. #85934 Marking Knife** Razor-edged, double-beveled tool steel blade produces a very accurate line for making precise cuts. Hardwood handle has a comfortable smooth finish; flattened sides prevent roll-away. 7" long. **\$23.95**

**U. Stainless Steel Machinist's Rules** provide the accuracy and readability you need and they will last a lifetime. Both have engraved and blackened markings. Choose 6" all-inch rule or 12" inch/metric rule.

**#84174 6" Rule** with 8ths, 16ths, 32nds & 64ths **\$5.95**

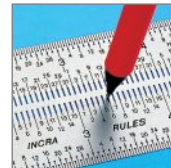
**#10115 12" Rule** with 8ths, 16ths, 32nds, 64ths, mm & cm **\$11.95**

**V. #86744 Right-Read Tape Measure** allows righties to roll out the tape easily with the left hand, and make the mark accurately with the right hand because the markings are RIGHT SIDE UP. 16' long, graduated in inches and cm. Includes belt clip and lock switch. List \$20.00... Our Price **\$12.95**

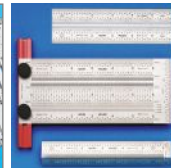
## Use Inkra Rules for Precision Measuring & Marking

Uniquely designed precision rulers feature micro-fine guide holes and slots at every 1/16", 1/32" and 1/64" scale position to instantly locate your sharp pencil or scribe at the exact measurement point every time. Perfect for a wide range of projects where accuracy is critical to the job at hand, Inkra's patented marking rule design is the standard by which all others are measured. Proudly made in the USA.

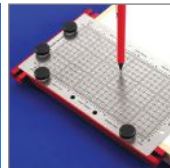
See our website for details and our full line of Inkra Rule products.



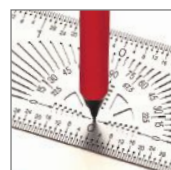
Precision Marking Rule Set  
**#81565 6" \$18.95**  
**#81569 12" \$24.95**



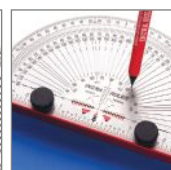
Precision Marking Rule Set  
**#81568 6" \$69.95**  
**#81572 12" \$104.95**



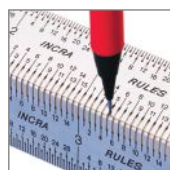
**#81874 6" x 3" Precision X-Y Marker \$44.95**



**#81668 12" Precision Centering Rule \$33.95**



**#81643 6" Precision Marking Protractor \$44.95**



Precision Bend Rule  
**#81567 6" \$23.95**  
**#81571 12" \$29.95**

**#89344 Inkra Tiny "T" Rule, Metric.** Features marking holes at every 1 mm, 5 mm and .25 mm from 0 to 75 mm, plus 1 mm-spaced slots on the end. Overall size: 75 x 115 mm. **\$16.95**

**#89345 Inkra Tiny "T" Rule, Imperial.** Features marking holes at every 16th, 32nd and 64th from 0 to 3 inches, plus vertical 32nd-spaced slots on the end. Overall size: 3" x 4.5". **\$16.95**

**Precision "T" Rules are also available in larger sizes:**

**#81566 6-Inch Precision "T" Rule, Imperial \$29.95**

**#81570 12-Inch Precision "T" Rule, Imperial \$49.95**



**#50299 Tungsten Carbide Scriber** Next to diamond, tungsten carbide is considered to be the hardest material known. Has a finely honed needle sharp point mounted in a 5-1/2" long steel handle. Will scribe plastics for snap cutting. **\$11.95**

**#10105 Genuine Diamond Tip Scriber** does everything our Carbide Scriber will do and more. Even marks hardened steel and glass. For those who want the best. Includes ergonomically contoured plastic handle and protective cap. 5-1/4" long. **\$19.95**

## Pounce Wheels, Explained



### Transferring Drawings from Paper to Wood

Just roll the pounce wheel over the drawing and it perforates tiny holes in the paper. Place the paper over the wood. Then rub powdered chalk (the kind used for snap lines; available at any hardware store) over the perforated holes. The chalk goes through the holes and marks the wood.

### Simulating Rivets on Models

Works on wood, plastic and sheet brass up to .010" thick. Aluminum handles with steel wheels. Tighten chuck for straight lines or loosen for curves.

Set of three; .250" dia. x .041" spacing, .300" dia. x .051" spacing and .412" dia. x .072" spacing. **#15200 Pounce Wheel Set \$29.95**





Don't let their small size fool you – these versatile, palm-size, German-made tools are dependable and powerful enough even for the most demanding miniature projects.



## MicroLux® Digital Transformer **NEW!**

This latest evolution 15 amp maximum output transformer not only contains special feedback circuitry that automatically boosts the power to the tool when it is under load so that the speed remains constant, it now offers separate controls for speed and torque. Switchable LED display shows the exact setting for each control for ultimate precision. Compact unit features 2 power output sockets, USB A and C charging ports, and built-in cooling fan for longer run-time. Plugs into standard household outlet.

#91133 MicroLux® High-Power Digital Transformer. List \$145.00 ... Our Price **\$89.95**

**Please note: The #91133 Transformer is REQUIRED for ALL MicroLux® Power Tools. The tools will not operate without it.**



## MicroLux® Palm-Size Belt Sander

Performs those tough sanding jobs with ease. Fabric-backed belt rides on nylon rollers mounted in ball bearings. Pressure pad is impregnated with graphite to prevent friction and heat build up. Has 1" wide belt and 7/8" dia. rollers. Includes one 120 grit belt and Allen wrench.

#15229 Palm-size Belt Sander. List \$125.00 **\$99.95**

### Palm-Size Belt Sander Accessories

**Sanding Belts – \$8.95 each**

#15239 80 grit #15240 120 grit

#60528 Benchtop Belt Sander Holder secures the tool on its side so you can use the tool hands-free. **\$14.95**



## MicroLux® High Torque 1/4" Drill

Generates 3 times the torque of previous models which, combined with its extra-low-speed capability, lets you drill perfect holes in steel, brass and other metals without overheating bits...and plastic won't melt, because there's virtually no friction heat build-up. Speed: 140 to 1,500 rpm; motor output: 110 watt peak; stall torque: 23 in.-oz. Includes 3-jaw keyless chuck with 1/64" to 1/4" capacity and on/off trigger switch.

#82822 High Torque 1/4" Drill. **\$89.95**

#14143 8-piece Drill Bit Set, 1/64" – 1/8" A great fit with the drill above. Set includes one each 1/64, 1/32, 3/64, 1/16, 5/64, 3/32, 7/64 and 1/8 inch bits. **\$13.95**



## MicroLux® Gourd / Cross Saw

Our Cross Saw easily cuts through irregular, non-flat objects, including gourds. The saw's small, rounded shoe permits high maneuverability on both smooth and bumpy surfaces and keeps the cutting line visible for increased accuracy. Max. cutting thickness: 9/32". Includes Allen wrench and 10 blades for soft woods and other craft items.

#82088 Gourd / Cross Saw. List \$110.00 Our Price **\$79.95**

### Gourd / Cross Saw Accessories

#84563 Coarse Saw Blades (10) **\$9.95**

#15244 Fine Saw Blades (10) **\$9.95**

#15252 Diamond Grinding Blade for micro filing and grinding most materials. **\$19.95**



## MicroLux® Powered Sander / Filer

Weighing in at a mere 6 oz, this ergonomic detail tool features a 360° pivoting head and rapid 5 mm (3/16") sanding/filing action. Includes 6 different heads that snap onto the ball-joint mandrel at the end of the tool: 7/16" and 11/16" circular, 3/4" and 1/2" triangular, 5/8" square and 3/16" x 1" rectangular, plus 2 sheets of 120 grit sandpaper you trim to size for each sanding head. The tool also accepts smooth file shanks up to 1/8" diameter to a depth of 1-1/2".

#86844 Powered Sander / Filer. List \$95.00 **\$89.95**

### Powered Sander / Filer Accessories

#86845 Extra Sanding Heads and Sandpaper **\$14.95**

#87190 12-piece Micro File Set **\$17.95**



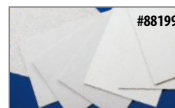
## MicroLux® Orbital Sander

Orbital Sander oscillates in a circular pattern, giving you smooth, scratch-free finishes. Use whenever you need a small, compact sanding tool. Now includes our new Hook-and-Loop Sandpaper System, with 2 sheets of loop-backed sandpaper and one PSA-backed hook sheet to be applied to the tool's sanding pad.

#15225 Orbital Sander. List \$90.00 Our Price **\$79.95**

### Sandpaper for Orbital Sander

#88199 Hook-And-Loop Sandpaper, 10 sheets; 3 each 80 and 120 grit, 4 sheets 180 grit; aluminum oxide. **\$9.95**



Use #15245 attachment to turn your Jigsaw into a table saw!



## MicroLux® Jig Saw / Scroll Saw

Cuts intricate patterns and model parts in softwood, hardwood, plastic, fiberglass, thin plywood and non-ferrous metal. Max. cutting thickness: 9/32"; speed: 1,800 to 6,900 rpm. Includes Allen wrench and 10 saw blades for wood.

#15226 Jig Saw / Scroll Saw. List \$85.00 Our Price **\$69.95**

### Jig Saw / Scroll Saw Accessories

#84563 Coarse Saw Blades (10) **\$9.95**

#15244 Fine Saw Blades (10) **\$9.95**

#15252 Diamond Grinding Blade for micro filing and grinding most materials **\$19.95**

#15245 Stationary Table Attachment holds tool securely for hands-free use; saw turns on automatically. **\$13.95**



### 3-Piece Mini Block Planer Set Provides Full-Size Functionality in a Tiny Package

Beautifully made of solid brass and satin-finished rosewood and small enough to fit in the palm of your hand, our mini planes perform every bit as well as their full-size counterparts. 3" long bullnose, scraper, and bench plane are ideal for detail woodworking, craft projects, and small clean-up jobs. Features include fully adjustable carbon steel blades, fixed mouth and 33° blade angles. Bullnose and bench plane are 13/16" wide; scraper is 1/2" wide.

**#91013 Mini Block Planer Set \$34.95**



### Versatile Expanding Parts Holder Does It All

This unique Parts Holder is not your ordinary vise. Items held in place by its cushioned spring clamps can be rotated 360° at increments of 15°. The well-balanced base has a low center of gravity and built-in non-slip rubber feet to provide a firm, non-tipping workstation. Lightweight and portable, this great tool is up to the task of working with all different shaped parts, including model assemblies, circuit boards, soldering and painting projects, and so much more. 7" capacity.

**#90936 Circuit Board and Parts Holder \$19.95**



**Please note: The #91133 Transformer is REQUIRED for ALL MicroLux® Power Tools.**

### MicroLux® Heavy-Duty Right Angle Disk Sander / Drill\*

A versatile tool for removing rust, grinding metal, shaping and smoothing wood, plastic and more, plus drilling holes\* in places no other tool will go. Uses hook-and-loop sanding disks. Speed: 400 to 3,300 rpm. Includes semi-rigid disk mounting wheel for flat surfaces, hex wrench and 2 sanding disks. **#82376 Sander/Drill. List \$130.00 Our Price \$99.95**

**Hook-and-Loop Sanding Disks (6/pkg.) \$8.95/pkg.**

**#88196 60 grit #88197 120 grit #88198 240 grit**

**Disk Mounting Wheels (3/pkg.) \$14.95/pkg.**

**#82378 For curved surfaces #82379 For flat surfaces**

**\*#15238 3-jaw Keyless Chuck; REQUIRED to convert sander to drill. 1/64" – 1/8". \$14.95**



### MicroLux® High Speed Drill / Grinder

The smallest and lightest drill/grinder available. It weighs just 5.4 oz. compared to the Dremel rotary tool at 16 oz. It's only 6-3/4" long and 5/8" in dia. at the working end, yet powerful enough for the toughest modeling projects. 5,600 to 21,000 rpm operating speed. Includes 3 precision collets.

**#15230 Drill / Grinder. List \$90.00 Our Price \$59.95**

**#15238 3-Jaw Keyless Chuck. Use in place of collets for quick change of bits. 1/64" to 1/8" capacity. \$14.95**

### MicroLux® Accessories for All Mini Tools Shown

**#15233 Auto Adapter powers tools from your car's 12V port. \$14.95**

**#15235 10 Foot Extension Cord extends the reach of the adapter above. \$12.95**



*3 rotating pendulum wheels hug tight to concave, convex and planed surfaces.*

### MicroLux® 3D Contour Sander

Unique sander makes easy, clean work of the difficult task of shaping/finishing 3D objects. 3 rotating pendulum wheels, spinning from 100 to 1,500 rpm, hug tight to concave, convex and planed surfaces. From quick material removal to fine finishing on all kinds of complex objects, this tool gets it done. Includes 1 set of 3 quick-change hook-and-loop-backed sanding disks. 1-9/16" diameter disks sand a 3-3/8" path in a single pass.

**#87470 3D Contour Sander. List \$154.00 Our Price \$129.95**

**Hook-and-Loop Sanding Disks (9/pkg.) \$9.95/pkg.**

**#87471 60 grit #87472 120 grit #87473 220 grit**



### MicroLux® Sword Saw

Twin blades slide back-and-forth next to each other at 100 to 2,000 strokes per minute. You can hold it like a pencil and cut the most intricate patterns in balsa, basswood and other soft materials up to 3/8" thick; pine up to 3/16" thick. Includes 1 pair of blades.

**#81858 Sword Saw. List \$100.00 Our Price \$79.95**

**#81859 Extra Blades (2 pair) \$9.95**

### MicroLux® Heavy Duty Flex Shaft Machine for Maximum Power and Performance

Designed and engineered for professional and serious craftspeople, our Flex Shaft Machine gives you much more power than standard rotary tools and other flexible shaft machines. Includes pendant-style 1/4 horsepower ball bearing motor with metal housing; electronic foot pedal to control speed from 500 to 22,000 rpm; #30 style ball-bearing handpiece with 5/32" (4 mm) capacity key-type chuck; and durable 40" long flexible shaft. 56" long line cord plugs into standard 120VAC wall socket.

**#85288 Flex Shaft Machine List \$169.95 Our Price \$109.95**

### Flex Shaft Stand

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

**#85143 Flex Shaft Stand \$38.50**

**#85143 Stand sold separately.**



*Flex Shaft Machine Includes motor unit, 40" flexible shaft, foot pedal, handpiece and chuck key*

### Turn Your Flex Shaft Machine\* into a Reciprocating Carving Tool



This reciprocating chisel handpiece is for carving in all types of wood, plastic, plaster and soft carving stone. It connects to a key tip quick disconnect flexible shaft machine like our #85288 (sold separately, above). Simply pull the handpiece off of the cable (with the motor unplugged) and insert this handpiece in its place. The handle converts the rotary action of the driven cable into a reciprocating "hammer" type handpiece that requires a light pressure to start the hammering chisel action. 6" long x 1" diameter handpiece weighs only 4.6 oz and has a stroke length of 1/8" (3.2 mm). The textured plastic barrel and tapered aluminum front end provide comfort and zero hammering feedback into the user's hand. Includes six chisels with 18 mm-long tangs and 55 mm and 75 mm overall lengths from cutting edge to end of tang: 3/8" straight, 11/32" 45° skew, 1/4" V gouge and 3/8" wide #3, #7 and 3/16" #10 U gouges, plus lube, wrench and instructions.

*\*Handpiece must be used in a forward motor direction tool, such as our #85288 Flex Shaft Machine, which spins the handpiece chuck counter-clockwise.*

**#90118 Reciprocating Carving Handpiece \$99.95**



## Innovative Desktop Dust Collection System is Now Available for Makers and Professionals



In our constant quest to bring you the most innovative tools from around the world, this uniquely-designed Desktop Dust Collection System stands out for its exceptional power, performance, and compact size. With a footprint of just 11" x 11" (x 5" high), this quiet-running system will keep your work space clean and dust-free while taking up only a fraction of the room demanded by its full-size counterparts. For ultimate versatility, vacuum strength is adjustable in 7 steps to an amazing 20,000Pa maximum suction. Additional high-end features include an expandable/positionable collection tube (maximum length: 30" x 2.375" dia.) with 4 bright LEDs at the working end to provide extra illumination while in use, 2-stage filtration, all-internal debris collection, and touch-control front panel. Unit plugs into standard household 3-prong outlet. Originally available only to the dental trade and for use in industrial applications, Micro-Mark now offers this professional-quality system to makers who want the best. For even greater flexibility, add the optional on/off foot switch (#90536, below) for hands-free operation.

**#90535** Micro-Mark Dust Collection System **\$495.00**

**#91052** Replacement HEPA Filter for above **\$27.95**

**#90536** Hands-Free Foot Switch for Micro-Mark Dust Collection System includes specially configured connector for on/off operation. **\$49.95**



## Finally, a Powered Sander Designed and Built with Modelers, Makers and Hobbyists in Mind!

After years of searching, this smooth-running sander is the winner all of us have been waiting for! Combining the versatility of variable speed control with power boost circuitry that can maintain torque at slower speeds, this compact yet powerful 5" Disk Sander may be the only powered sander you will find that is as capable with plastic as it is with hardwood. Just dial in the speed you need from 1150 to 3600 rpm and you're ready to go to work. Its 5-1/2" wide x 3-3/4" table tilts down from 0° to 50° or up from 0° to 10° with a quick turn of the side-mounted knobs. Use the tilt feature with the included angle gauge to make perfect precision compound miters. At only 11-1/4" x 5-3/4" x 6-1/2" high, this small sander will make a huge impact on your projects for years to come. Includes an adjustable T-slot miter gauge, bench clamp for mounting your sander to any work surface from 1/2" to 2-3/4" thick, on-board magnetic tool holder, abrasive cleaning bar, vacuum port and hose adapter, wrench, and six sanding disks: two each: 80, 150 and 240 grit. Plugs into standard 120V 60 Hz AC outlet. Draws 1.1 amp.

**#90037** Variable Speed 5" Disk Sander. List \$125.00 ... Our Price **\$119.95**

**#90037K** Variable Speed 5" Disk Sander Super Value Package includes #90037 Variable Speed 5" Disk Sander and all accessories listed above, plus a Micro-Mark Heavy Duty Tool Case and 30 five-inch Sanding Disks (six 5-packs) in the following grits: 80, 120, 240, 320 and 400. Value \$229.65 **Super Buy \$199.95**

**Replacement 5" Sanding Disks – \$9.95/pkg. of 5**

**#38109** 80 grit **#38110** 120 grit **#90059** 240 grit **#90060** 320 grit **#90061** 400 grit



**#90058** Abrasive Cleaning Stick for Power Sanders quickly removes the built-up material from abrasive disks and belts like a big eraser. **\$8.95**



## Powered Chisel Cuts Like a Hot Knife Through Butter!

Hammer-like reciprocating action activates automatically, providing incredible cutting power. Includes 3 blades: 9 mm #1 flat chisel, 6.4 mm 90° V parting chisel and 9 mm #9 sweep gouge, plus collet wrench. 110V; 50/50 Duty Cycle. High quality, Made in Japan.

**#86720** MicroLux® Powered Chisel List \$165.00 ... Our Price **\$129.95**

**Super-Sharp, Bi-Metal Chisel Blades** List \$20.00 ea. ... Our Price **\$12.95 ea.**

**#86722** 14 mm #7 Sweep Gouge

**#86723** 7 mm (60°) V Parting Tool

**#86724** 16 mm #1 Flat Rounded Chisel

**#86725** 7 mm (90°) V Parting Tool

**#86726** **Special Offer!** Set of 4 Chisel Blades above for **only \$39.95**

**#86721** Set of 5 Chisel Blades includes 9 mm #1 rounded flat chisel, 6 mm #9 sweep gouge, 9 mm #1 flat chisel\*\*, 6.4 mm 90° V parting chisel\*\*, 9 mm #9 sweep gouge\*\*. **\$39.95** **\*\*Included with Chisel**

**#86727** Chisel Blade Sharpening Stone Approx. 4" x 2-1/2" x 5/8". **\$24.95**

## Save Money with Our Powered Chisel Super Value Packages

**#87893** MicroLux® Powered Chisel Super Value Package  
#86720 MicroLux® Powered Chisel • #86721 5-piece Carving Blade Set • #86727 Chisel Sharpening Stone.  
Value \$192.95 **Super Buy \$169.95**

**#87893K** Powered Chisel Accessory Value Package  
includes the carving blade set and sharpening stone from the Super Value Package at left, without the powered chisel.  
Value \$62.90 **Super Buy \$49.95**

## Micro-Mark Mini Air Circulator is NOT Your Ordinary Fan

With its convenient removable stand and compact size, our small yet powerful 3-speed Mini Air Circulator is great for keeping dust and fumes away from your face while you work. But what makes this deceptively advanced unit extra special is that it incorporates semiconductor cooling technology to actually lower the temperature of the air flowing through it with the touch of a button, transforming it into a cordless, go-anywhere, hand-held air conditioner. Nearly silent when running, our Mini Air Circulator features an internal USB rechargeable battery that provides long-lasting power. Unit is 6" high x 2.5" wide x 2.5" deep with 2.25" dia. fan blade. Removable base is 2" in diameter x 1" high. Weighs only 6 oz.



**#91071** Micro-Mark Mini Air Circulator **\$19.95**



## A Micro-Mark Exclusive!

### Forget Everything You've Ever Known about Cutting... WonderCutter S is Here!

WonderCutter uses the amazing power of ultrasonic technology to revolutionize cutting from this moment forward. Producing a mind-boggling 40,000 vibrations PER SECOND, WonderCutter breezes through an amazing array of materials with such ease you simply will not believe your eyes...in fact, the oscillations are so rapid, you literally can't see or feel it move! This innovative tool will not only replace practically every other knife in your shop, it will expand your capabilities, enhance your creativity and allow you to execute the most intricate cuts even in the most difficult materials with a level of precision, ease and accuracy that was never possible before. Model makers, prototype builders, industrial designers, crafters, leather workers, florists and DIYers of all kinds will find this ingenious, ground-breaking tool essential for cutting plastic, cardboard, balsa, fabrics, plywood, rubber, acrylic, MDF, leather, bonsai and more! Ergonomic handpiece is comfortable and easy to hold, even for people with hand problems. Best of all, the tool does all the work for you! Set includes base workstation with built-in lithium-ion battery pack, handpiece, charger cable, 40 extra blades and user's manual.

Note: faceplate color may vary.

#88195 WonderCutter S. List \$489.95 ... Our Price **\$429.95\***

#88475 Blades for WonderCutter, package of 40 **\$8.95**

Micro-Mark has exclusive rights to distribute  
WonderCutter in North America. Companies interested  
in reselling WonderCutter, please contact us for details.

See videos  
on YouTube



### WonderCutter X is the Cutting Edge of Excellence

The next phase of innovation and evolution, WonderCutter X is an advancement upon the revolutionary WonderCutter S, with enhanced features that expand upon its already legendary capabilities and exceptional versatility. While still producing a mind-boggling 40,000 ultrasonic vibrations per second, WonderCutter X now operates using a plug-in power supply which generates an impressive 1.6 times more high-speed cutting energy, allowing you to not only zip through standard materials such as plastics, pvc and acrylic faster than ever before, but to cut much harder materials, including carbon fiber, with a precision and ease that was not previously possible or even available to makers.

#### Additional developments include:

- 3 user-selectable power levels: **Eco Mode**, for cutting thin, soft materials such as leather, paper and soft resin; **Comfort Mode**, for cutting thick, soft materials and harder, thin materials like rubber, plastic and wood; **Sport Mode**, for cutting thicker, harder materials, including hard resins and even carbon fiber.
  - Continuous Mode, which allows you to make continuous cuts for any length of time without pressing the button on the handpiece. Significantly reduces hand fatigue while dramatically increasing cutting accuracy, especially for more complex, multi-angle cuts.
  - New blade shapes and styles, including a curved digging blade, narrow chisel blade, long basic blade for cutting thick, soft materials, and a saw blade for cutting and shaping wood, plaster and more. Note: these "specialty blades" are compatible with WonderCutter X ONLY.
- Set includes WonderCutter X base unit with integral handpiece, power supply (plugs into standard household outlet), 40 standard blades and 4 specialty blades.

#91015 WonderCutter X **\$699.95** Order additional single-pack "Specialty Blades" below:

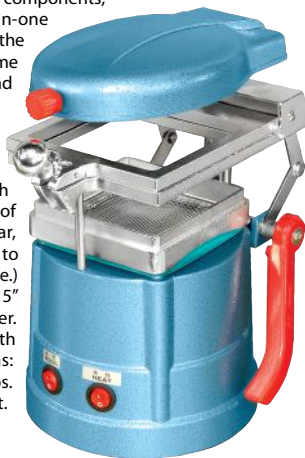
#91033 Dig Blade **\$3.95** #91034 Half Blade **\$3.95** #91035 Long Blade **\$3.95** #91036 Saw Blade **\$3.95**



### Compact All-In-One Vacuum Forming Machine

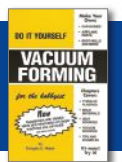
For making small, highly-detailed vacuum formed components, this desktop machine can't be beat. The all-in-one design includes an overhead heater for softening the plastic sheet, a clever lever-operated transport frame that lowers the plastic sheet over the pattern, and a base unit containing an extra-strong vacuum chamber to draw the plastic tightly over the pattern. Use it to make aircraft canopies, tire molds, rock and retaining wall molds, hopper car loads, coal piles, wall and roof panels and so much more. Industrial-quality machine is capable of making thousands of moldings. Works with clear, white, black, tinted or opaque plastic sheets up to .040" thick. (Note: Not for use with polycarbonate.) Sheet size: 5" square. Maximum pattern length: 5" when placed diagonally in the 4" square chamber. Includes steel beads that support patterns with irregular bottom surfaces. Overall dimensions: 8" wide x 10" deep x 12" high. Weight: 10-1/4 lbs. 4' long cord plugs into standard household outlet.

#85756 Compact Vacuum Forming Machine  
List \$285.00 ... Our Price **\$179.95**



#80868 Do It Yourself Vacuum Forming is an illustrated guide to small-scale vacuum forming you can do at home without special skills and little equipment.

By Douglas E. Walsh. 129 pages. **\$15.95**



### Plastic Sheets for Scratch-Building, Vacuforming and More

Item #	Size	Thick	Material	Pcs./Pkg.	Price/Pkg.
81335	11" x 14"	.020"	White Styrene	6	<b>\$24.95</b>
80902	11" x 14"	.030"	White Styrene	3	<b>\$24.95</b>
80903	11" x 14"	.060"	White Styrene	3	<b>\$29.95</b>
83478	11" x 14"	.030"	Black Styrene	3	<b>\$24.95</b>
83479	11" x 14"	.060"	Black Styrene	3	<b>\$24.95</b>
81336	11" x 14"	.020"	Clear Vivak	6	<b>\$35.95</b>
80906	11" x 14"	.060"	Clear Polycarbonate	2	<b>\$29.95</b>

Use for fabricating model structures, airplane cowls, car bodies, dollhouse furniture "glass," windshields and other window glazing. Easily glued, they can also be vacuum formed to create specialized shapes.

**STYRENE** Multipurpose high-strength opaque plastic. Great for structure walls and roofs.  
**VIVAK** Multipurpose high-strength clear plastic. Use for airplane canopies and other glazing.  
**POLYCARBONATE** An unbreakable, high-temperature plastic.

#81477 Nibbling Cutter Squeezing the handle of our uniquely designed nibbling cutter actuates an ultra-sharp punch and die set which quickly and cleanly "nibbles" its way (3/32" at a time) through soft metal and plastic sheet up to 1/16" thick. Use it to cut out window and door openings, make sheet metal templates and gauges, etc. Specially contoured handle provides a comfortable grip. Cutter width is 1/4"; overall length is approx. 8". **\$14.95**





**A Micro-Mark Exclusive!**



The MicroLux® Tilt Arbor Table Saw is more powerful, more accurate, and smoother running than any other saw its size. And it's the world's first variable speed table saw...so it will cut metal and plastic, as well as wood. This is, without a doubt, the most feature-packed machine ever designed for the precision craftsman:

- High torque, electronically rectified 3,600 to 7,000 rpm variable speed DC motor produces more torque and power than many 1/2 hp motors... and torque remains high, even at low rpm; cuts plastic, aluminum, brass and non-ferrous metals without overheating
- Ball bearing spindle and no-slip timing belt for more torque
- Blade height adjusts from 0" to 1" and cuts a full 1" at 90°, 3/4" at 45°; tilting arbor for angle cuts up to 45°
- 11-1/2" x 9-1/2" table with 9-1/2" x 9-1/2" machined aluminum surface and two miter gauge slots
- Up-front controls for on/off, speed, blade height and tilt; includes vacuum cleaner attachment for dust control and table extension for cross-cutting long sheet stock
- Compact size – only 10" long x 11-1/2" wide x 7" high; weighs approximately 11 lbs.

**#80463 MicroLux® Tilt Arbor Table Saw** includes self-aligning rip fence, calibrated miter gauge, blade guard and 80 tooth fine cut blade for balsa and basswood up to 1" thick; hardwood up to 1/4" thick (for hardwood up to 1", use #86326 Carbide Blade). Uses 3-1/4" blades with 10 mm hole. Plugs into a standard household outlet. This high-quality saw is made in Japan and backed by a 1 year warranty. List \$537.95 ... Our Price **\$349.95**

**#81387 Easy-Mount Bench Bracket** for Table Saw (mounts to tables up to 2" thick). **\$39.95**



*More precise and powerful than any other table saw its size!*

#### #88865 Perma-Grit Tungsten Carbide Abrasive Blade

Specially designed 3-1/4" diameter abrasive blade adds even greater versatility to our #80463 Tilt Arbor Table Saw, allowing you to cleanly cut the widest variety of materials with precision. Fine grit. 10 mm arbor; .097" kerf.

**\$49.95**



**A Micro-Mark Exclusive!**



**GOT WOOD?**  
Visit the Micro-Mark Lumber Yard on page 56

**HOT ITEM!**



**\$10**  
ADDITIONAL  
FREIGHT  
ANYWHERE IN  
LOWER 48 STATES

**#87727**

### MicroLux® Tilt Arbor Table Saw Super Value Package

Take our best-selling saw, add some of our most popular accessories for it, and what do you get? A versatile mini woodworking and metal-cutting workstation like no other.

#### Package includes:

- #80463 MicroLux® Tilt Arbor Table Saw
- #80898 Featherboard and Fence Set
- #86326 40 Tooth Carbide Blade
- #82593 Ferrous Cut-Off Disk
- #70224 Ripping Gauge Set
- #84904 Blank Blade Plates
- #60299 Angle Setter/Protractor
- #80605 Taper Jig

**#87727**  
MicroLux® Tilt Arbor Saw  
Super Value Package.  
Value \$542.60

**Super Buy \$429.95\***

**#87727K MicroLux® Tilt Arbor Saw**  
Accessory Value Package.  
Includes 7 accessories from #87727,  
minus the saw, for one great price.  
Value \$192.64 **Super Buy \$119.95**



## MicroLux® Tilt Arbor Table Saw Accessories



### Saw Blades and Accessories

3-1/4" dia. with 10 mm hole unless otherwise noted

**#80464** 80 Tooth Standard Blade, .080" kerf. For softwood up to 1" and hardwood up to 1/4" thick. **\$29.95**

**#80465** 24 Tooth Carbide Tip Blade, .070" kerf. For super-smooth cuts in all softwood, plywood and hardwood up to 1" thick, plastic over 1/16" thick, plus thin soft brass and aluminum. **\$49.95**

**#86326** 40 Tooth Carbide Tip Blade, .070" kerf. For superior ultra-smooth cuts (including rip cuts) in all softwood, plywood and hardwood up to 1" thick and plastic over 1/16" thick (not recommended for cutting metal). **\$49.95**

**#81524** Premium Quality Diamond Blade for tile, stone, etc. .040" kerf. **\$69.95**

**#88640 MicroLux® Tilt Arbor Table Saw Blade Super Value Package** includes all 10 blades and adapter above for one unbeatable price. Value \$345.45 **Super Buy \$299.95**

**#82593** Aluminum oxide disk for ferrous materials like steel and cast iron. **\$12.95**

**#82594** Silicon carbide disk for non-ferrous materials like brass, aluminum, copper, bronze, zinc, white metal, etc. **\$12.95**

**High Speed Steel Slitting Saws**, 3" dia., 1/2" hole. Must be used with adapter #83515, sold below. For slitting and slotting thin wood and plywood; cross-cutting brass tubing and soft brass sheet under 1/16" thick; cross cutting delicate wood and plastic structural shapes. **\$27.95 each**

**#80466** 168 teeth, .045" kerf

**#80803** 168 teeth, .032" kerf

**#80804** 230 teeth, .025" kerf

**#80805** 230 teeth, .020" kerf

**#83515** Adapter for blades 80466 – 80805. Reduces 1/2" blade hole to fit 10 mm shaft on MicroLux® Table Saw. **\$7.95**



**#87355 MicroLux® Dado Cutting System** Specially designed washers mount behind the blade to create a controlled "wobble" which allows the blade to cut perfect 1/16", 3/32", 1/8" and 3/16" dado slots every time. Includes 4 color-coded dado washers, 80-tooth saw blade (3-1/4" diameter, .040" kerf) and a special blade guard. **\$49.95**

**#87355B** Exact Replacement 80-tooth Saw Blade for Dado Cutting System **\$22.95**



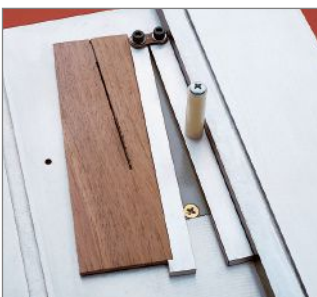
**#80467 The Accuriser II** Rip stock to precise tolerances with this vernier adjustable rip fence. Self-aligning T-square design includes positive lock that holds it perfectly parallel to the blade. The sliding face of the fence adjusts in .005" increments so your cuts will be more accurate than you ever thought possible. Order today and experience the difference precise cuts can make. List \$93.95 ... Our Price **\$69.95**



**#80898 Featherboard & Fence Set** The support provided by a high fence allows you to make cuts that are safer, easier and more accurate. A high fence also allows you to mount jigs and other attachments. Set includes 2" high x 10" long extruded aluminum Rip Fence; Vertical Featherboard to help prevent kick-back; Horizontal Featherboard with flexible fingers holds stock tight against rip fence. **\$39.95**



**#80468 Sliding Table** Guides on the bottom of the table slide in the grooves of the saw for precise cross cuts. The wide fence gives your work more support for 90° cuts. The triangles we supply give you perfect 30°, 45° and 60° cuts without resetting the miter gauge each time you change the angle of cut. Recommended for cuts in material up to 1/2" thick. Table is 10" x 12". Fence is 1-1/2" high. **\$29.95**



**#80605 Taper Jig** Beautifully machined tool is used for making a wood or plastic part with an angled cut on its long dimension. Adjusts easily to any taper. Made of machined aluminum and steel with a nylon handle. 6" long. **\$29.95**



**#84904 Blank Blade Plates** The MicroLux® Tilt Arbor Saw has a gap alongside the blade which permits the blade to be tilted, but also allows thin strips of wood to fall through the table. To eliminate the gap, install the blank plate and raise the blade to cut a new slot. Now, thin strips of wood will stay above the table. For MicroLux® Tilt Arbor Saws with 5-3/8" long blade plates only. Set of 4 blank blade plates. **\$24.95**

**#70224 Ripping Gauge Set (not shown)** helps rip stock into strips quickly and accurately to within .003". Set includes 1/16", 3/32", 1/8", 5/32", 3/16", 1/4", 5/16", 3/8" and 1/2" gauges. For other widths, use 2 or more gauges in combination. All gauges approx. 4" long. **\$14.95**



### Protect Your Saw and Other Tools in Style

**A Micro-Mark Exclusive!**

Our Mini Tilt Arbor Table Saw is renowned for its precision, capability, power and reliability. And now, with the custom-fit Micro-Mark HD Tool Case, you can add true go-anywhere portability to that impressive list of attributes. From your workbench to the jobsite and back again, the Micro-Mark HD Tool Case assures that your saw gets there easily and safely in style. Because the best deserves the best, we designed the Micro-Mark HD Tool Case from the ground up, selecting only the toughest, premium-quality materials and assembling them with a fit and finish typically reserved for high-end luggage. Features include a water-, scuff- and tear-resistant heavy-gauge woven nylon outer cover with dual zipper closure, thick padded top with impact-resistant inner core, 3/16" rigid, high-impact plastic interior shell with full wrap-around, high-density foam lining.

Additional clever interior features include two large 6" x 5-1/2" x 2" deep storage pockets with hook-and-loop closures for safely and securely holding extra blades, gauges, tape measures and more, plus a 3" x 4" x 2" deep open-top pocket and hook-and-loop strap for holding rulers, fences and other long accessories. Built-in carry handle and adjustable-length, over-the-shoulder strap with thick shoulder pad and metal swivel connectors attaching to metal D-rings round out this beautifully-made case. Interior dimensions are 12-1/4" x 11-1/2" x 8-1/2"; exterior dimensions are 13" x 12-1/4" x 9". While designed as an exact-fit for the Tilt Arbor Table Saw, the Micro-Mark HD Tool Case can be used to transport and protect many other tools as well.

**#89348** Micro-Mark HD Tool Case. List \$70.00 ... Our Price **\$59.95**

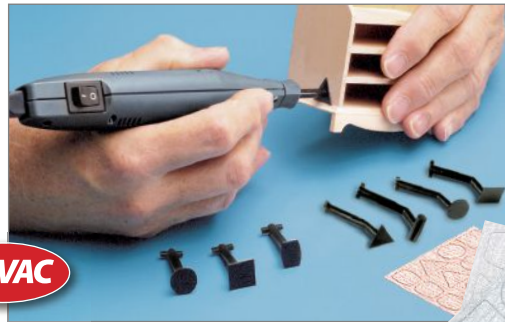


## MicroLux® Micro Power Sanders Give You Smooth, Professional Finishes with Little Effort

**A Micro-Mark Exclusive!**



Our Micro Reciprocating Power Sanders do in minutes what used to take hours...if you could do it at all! And they work in places even your fingertip can't fit. 8 different interchangeable sanding tips snap into the working end with just a twist. Designed for use on wood, metal and plastic. If you're a model maker, miniaturist, woodworker, or DIYer, these are the tools you've been waiting for!

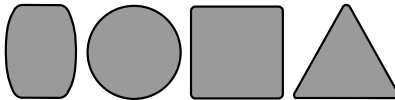


**#81266 MicroLux® Corded Micro Power Sander** Set includes power sander, 8 different sanding tips (4 straight shank and 4 angled shank), and 60 self-stick sanding pads. Plugs into standard household outlet. 7-1/2" long overall. 2.5 mm (3/32") reciprocating stroke; 7,000 strokes per minute. Made in Japan. List \$120.00 ... Our Price **\$79.95**

**Extra Sanding Tips (set of 4) - \$11.95/set** #81266A Straight Shank #81266B Angled Shank

**60 Replacement Sanding Pads (15 of each shape) \$6.95/pkg.**

**#81279** 180 grit **#81280** 240 grit **#81281** 400 grit **#90970** 800 grit



**Sanding pad shapes shown at actual size.**

## MicroLux® CORDLESS Variable Speed Micro Power Sander

The MicroLux® Micro Power Sander is one of our all-time most-popular items. In our constant quest for innovation, we're now producing a cordless, variable speed version of this top-selling tool, providing even greater versatility for makers on-the-go. What sets this tool apart from its corded counterpart is that its powerful 3.7V, 2600mAh lithium-ion battery generates a variable, user-selectable 2,000 to 7,000 reciprocating strokes per minute, allowing you to dial-in just the right speed for the material you're working. Runs for 60 - 100 minutes on a single charge. Fully recharges in 3 - 4 hours. Set includes Cordless Micro Power Sander with rechargeable 3.7V internal battery, 8 different sanding tips (4 straight shank and 4 angled shank), 60 peel-and-stick sanding pads in 180, 240 and 400 grit, and USB charging cable. Additional sanding pads available separately below. Made in Japan. **#90946 MicroLux® Cordless Micro Power Sander.** List \$120.00 ... Our Price **\$79.95\***

**Replacement Sanding Pads (15 of each shape, 60 pads total) \$6.95/pkg.** **#81279** 180 grit **#81280** 240 grit **#81281** 400 grit **#90970** 800 grit

## Sponge Sanding Pads and Sanding Heads for MicroLux® Micro Power Sanders

Compatible with BOTH the #90946 Cordless Micro Power Sander and #81266 Micro Power Sander, these great accessories provide added versatility for all applications.



**Square Sponge Sanding Pads, Pkg. of 10**  
**#90950** 120 grit  
**#90951** 240 grit  
**#90952** 320 grit  
**#90953** 800 grit  
**#90954** 1200 grit  
**\$9.95/pkg.**



**Triangle Sponge Sanding Pads, Pkg. of 10**  
**#90955** 120 grit  
**#90956** 240 grit  
**#90957** 320 grit  
**#90958** 800 grit  
**#90959** 1200 grit  
**\$9.95/pkg.**



**#90947** Narrow Sanding Heads, package of 4 **\$11.95**



**#90948** Square Sanding Heads, package of 4 **\$11.95**



**#90949** Triangle Sanding Heads, package of 4 **\$11.95**



**Beware of cheap imitations!**

## MicroLux® Mini Miter / Cut-Off Saw for Wood, Metal, Plastic

Our Miter/Cut-Off Saw cuts steel, aluminum, brass, wood and just about everything else in a fraction of the time it takes to cut by hand. The cuts are so smooth and accurate, you may never have to file or sand cut ends again! Cuts rods, tubing, squares, miniature molding, brass and plastic shapes. Has a built-in vise that adjusts for cuts from 45 to 90 degrees. 2" diameter blade cuts material 3/8" thick x 1/2" wide x any length at 90° and 3/8" wide at 45°. 110/120VAC, 7800 rpm motor is encased in a high impact plastic housing. Base and vise are diecast aluminum. Includes one fine-cut high speed steel saw blade for wood and plastic. Overall size: 5" x 8" x 6".

**#84656** MicroLux® Mini Miter/Cut-Off Saw. List \$75.00 ... Our Price **\$59.95**

**#84657** Extra steel blade for above **\$14.95**

**Reinforced Abrasive Cut-Off Wheels, .040" thick, package of 3**

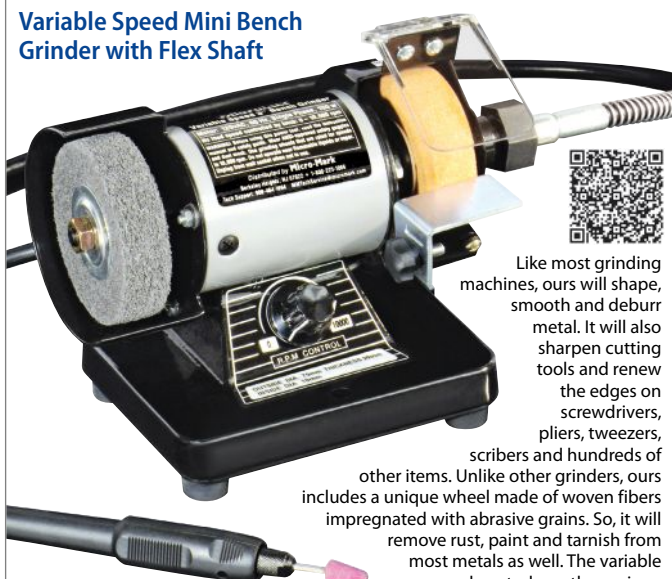
**#84689** For Ferrous Metals **\$9.95**

**#84690** For Non-Ferrous Metals **\$9.95**



**#80243** Anti-Vibration Pad reduces noise and vibration of benchtop power tools including grinders, sanders, saws, air compressors and more. Cut to size with a scissor. 12" x 18"; 3/8" thick. **\$16.95**

## Variable Speed Mini Bench Grinder with Flex Shaft



Like most grinding machines, ours will shape, smooth and deburr metal. It will also sharpen cutting tools and renew the edges on screwdrivers, pliers, tweezers, scribes and hundreds of other items. Unlike other grinders, ours includes a unique wheel made of woven fibers impregnated with abrasive grains. So, it will remove rust, paint and tarnish from most metals as well. The variable speed control, another unique feature, lets you do intricate shaping of miniature parts. And, it includes a detachable 42" long flexible shaft with ergonomic handpiece and 1/8" collet to hold accessories that grind, buff, sand, drill and saw metal, wood and plastic. The all-metal motor housing with rubber feet includes a repositionable protective face shield. Overall size: 5" x 6" x 7". Wheels are 3" diameter x 3/4" wide with 10 mm hole. Variable speed: 0 to 10,000 rpm. Weighs just 6-1/2 pounds. 110VAC motor with 5' cord.

**#85287** Miniature Bench Grinder. List \$100.00 ... Our Price **\$74.95**

Order Extra Wheels Below – \$9.95 each

**#85919** 3" Grinding Wheel, 120 Grit **#60736** 3" Woven Abrasive Wheel

## Impressive 265-piece Accessory Set for Flex Shaft Tools and Rotary Tools Does it All!

This most-complete selection of accessories helps you get the most versatility out of any flex shaft and/or rotary tool with a 1/8" collet or chuck. Set includes sanders, grinders, drill bits, buffers, diamond bits, brushes, cut-off wheels and more... 265 pieces in all! **#86340** 265-piece Flex Shaft and Rotary Tool Accessory Set **\$59.95**

## Create Pro-Quality Detail with the Micro-Pro™ Champion

Higher carving speeds provide superior carving results and smoother texturing, plus improved detailing, stoning and feathering. With an 11% increase in torque and variable speed up to 46,000 rpm, Micro-Pro™ Champion has the speed, power, superior features and quality you want, priced far less than competitors! Features include: control box with dial-type control knob, lighted power indicator, on/off switch, overload protection, 6-burr storage holes, 110/220 volt selector switch, and forward/reverse switch. Handpiece features a high-torque, fan-cooled micro motor, sealed NSK ball bearings, 6' cable and solid grip turn-ring for hands-free bit changes. Handpiece is 6" long x 5/8" to 1" diameter and weighs only 7.3 oz. Micro-Pro™ Champion Set includes: handpiece, 1/8" (3.18 mm) and 3/32" (2.3 mm) quick-change collets, variable speed power supply, table-top and box-mounted handpiece holders, long-life motor brushes, instructions, and 1-year manufacturer's warranty. **Note: burrs are not included – see suggestions below.**

**#88359** Mastercarver® Micro-Pro™ Champion Grinder Set. **Super Buy \$269.95**

**#82260** 30-piece Diamond Coated Micro Burr Set with 1/8" shanks and assorted shapes with cutting diameters up to 3/16"; 150 grit. Includes storage case. **\$25.45**

**#86573** 10-piece Jumbo Diamond Burr Set with 1/8" shanks and assorted shapes with cutting diameters from 3/16" to 5/16"; 150 grit. **\$18.95**

**#87508** 3-piece Silicone Carbide Grinding Burr Set with 3/32" shanks, large. **\$10.95**



## MicroLux® CUSTOMIZE-IT Cordless Micro Rotary Tool

Our MicroLux® Micro Rotary Tool has quickly ascended to the top of the list of precision carving, shaping, sanding and grinding tools due to its compact size, excellent balance and exceptional control. This outstanding cordless tool provides maximum versatility without sacrificing any of the performance and ergonomics for which its corded counterpart are known. Plus, we've added a comprehensive selection of the tool's most widely-used and sought-after accessories to rival the most popular micro rotary tools on the market today. With a powerful 3.7V, 2600mAh internal lithium-ion battery, the MicroLux® Customize-It Cordless Micro Rotary Tool produces a variable, user-controllable 9,000 to 15,000 rpm speed range for working with virtually all materials, including wood, plastic, metal, and more. Runs for 60 – 100 minutes on a single charge. Fully recharges in 3 – 4 hours. Set includes Customize-It Cordless Micro Rotary Tool, USB charging cable, 5 steel cutting bits, 3 diamond bits, 2 stone-tipped bits, 2 polishing bits, 2 grinding wheels, 5 abrasive cut-off disks, diamond cutting wheel, mandrel, collet nut wrench and custom accessory case. Made in Japan. **Note: Tool accepts 3/32" shank bits only; additional bits available separately...see #86675 and #86811 below.**

**#90960** MicroLux® Customize-It Cordless Micro Rotary Tool. List \$90.00 Our Price **\$69.95\***



## MicroLux® Micro and Mini Rotary Tools Bring Precision Carving, Shaping, Sanding and Grinding to the Next Level



**#86694 MicroLux® Micro Rotary Tool** is the most ergonomic hand-held rotary tool we've ever used. At just over 6 oz, it is extremely lightweight and perfectly balanced. Attachment of the 110V power cord to the side of the unit eliminates the awkward, top-heavy feel of other hand-held rotary tools and allows for more precise movements and amazing control. Speed is variable from 7,000 to 16,500 rpm; 20 watts; 50/50 duty cycle. Includes 8 accessories: 2 diamond bits, 2 steel cutters, 3 stone bits, 1 felt-tipped bit, plus collet nut wrench and storage case. Other 3/32" shank bits available separately. Made in Japan. **\$69.95**

**#86675 10-piece Metric High-Speed Steel Drill Bit Set** 3/32" shank is a perfect fit with our MicroLux® Micro Rotary Tool. Includes sizes: 0.7, 0.8, 0.9, 1.0, 1.2, 1.4, 1.6, 1.8, 2.0, 2.2 mm, plus sturdy storage box. Max. rpm: 18,000. List \$40.00 ... Our Price **\$29.95**

**#86811 12-piece Metric Drill Set** Polished steel twist drills with uniform 3/32" shanks are a perfect fit with our MicroLux® Micro Rotary Tool. Includes 12 popular sizes from .45 mm to 1.55 mm in .10 mm increments. List \$38.00 ... Our Price **\$29.95**

**#86698 MicroLux® Mini Rotary Tool** 35 watts of power and a variable operating speed between 8,000 and 18,000 rpm make the MicroLux® Mini Rotary tool strong enough for the most challenging projects. A total weight of just 8 oz and the thinnest design available in this power range (3/4" at the tip and 1-5/16" along the barrel) make for one of the most ergonomic high-powered rotary tools in the world. Includes collet set (1/32", 3/32" and 1/8") and wrench. Uses a wide variety of standard rotary tool bits and accessories. See website for details. 110V; 50/50 duty cycle. Made in Japan. List \$120.00 Our Price **\$84.95**



See our website for video

\*Ships by ground to 48 contiguous United States only.

30 DAY MONEY BACK GUARANTEE

ORDER ONLINE [www.micromark.com](http://www.micromark.com)

25



# Rotary Tool Attachments, Accessories & More!

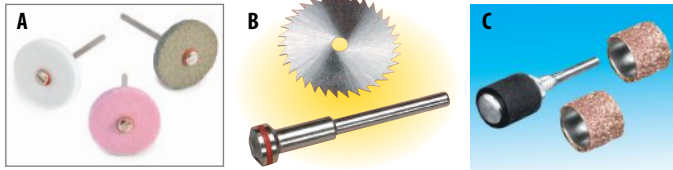
See our website for complete descriptions and additional items

## 265-piece Accessory Set for Rotary Tools



You'll be impressed with this most-complete selection of accessories that fit any rotary tool with a 1/8" collet or chuck. Includes sanders, grinders, drill bits, buffers, polishing cream, diamond bits, brushes and cut-off wheels...265 pieces in all!... everything you need to put your Dremel or other rotary tool to good use.

**#86340** 265-piece Rotary Tool Accessory Set. Value \$130.00 ... Our Price **\$59.95**



**A. #87505 6-Piece Grinding Wheel Set** includes one each coarse, medium and fine grit. Approx. 7/8" in diameter by 7/64" thick; included mandrels have 3/32" shanks. **\$9.95**

**B. Mini Saw Blades** cut wood, soft metals, plastic, fiberglass. Precision ground tools of drop forged, tempered high carbon steel. All are .015" thick with 1/8" hole.

**#14133** 3/4" dia., 36 teeth **\$14.95**

**#14134** 3/4" dia., 60 teeth **\$14.95**

**#14135** 1" dia., 68 teeth **\$14.95**

**#14136** 1" dia., 34 teeth **\$14.95**

**#80324** 1-1/2" dia., 100 teeth **\$19.95**

**C. Tungsten Carbide Sanding Bands** won't load up, break down, or overheat. Use on wood, fiberglass and plastic. Bands are 1/2" dia. x 1/2" long.

**#14463** Coarse Grit Band **\$8.95**

**#14464** Fine Grit Band **\$8.95**

**#14563** Drum, 1/8" Shank **\$4.95**

**#50292** **SAVE!** Set of all three **\$18.95**

**A Micro-Mark Exclusive! Finally, a Rotary Tool**

## Accessory Organizer Made to Hold 1/8" Shanks

Unlike most rotary tool accessory organizers on the market, ours is designed to hold the 1/8" shanks commonly found on most of the bits and burrs available in the U.S. This beautifully made and finished all-wood organizer provides an elegant way to keep up to 120 shanked accessories within easy reach. Slide-out drawer stores cutting wheels, sanding disks, grinding stones and more, plus, removable rack insert holds multiple pliers neatly and safely out of the way until you need them. Organizer takes up only 5.75" x 9" (x 6" high) of space on your workbench.

**#91012** Rotary Tool Accessory and Plier Organizer **\$32.95**

Rotary tool accessories and pliers are not included.



**D. - F. Diamond Coated Micro Burrs** grind, engrave, smooth, shape and sharpen almost everything. 1/8" shanks. Each set includes a plastic storage case.

**D. #80919 Standard Set** 20 different shapes; cutting diameters up to 1/8" **\$17.95**

**E. #82260 Expanded Set** 30 different shapes; cutting diameters up to 3/16" **\$25.45**

**F. #86573 Jumbo Set** 10 different shapes; cutting diameters up to 5/16" **\$18.95**

**G. #80470 10-piece Titanium Coated High Speed Steel Cutter Set** includes all shapes shown. Use for shaping, cutting and hollowing soft brass, wood and plastic. 1/8" shank. Value \$64.05 ... Our Price **\$45.95**

**H. - N. Solid Carbide Cutters** last up to 20 times longer than steel. 1/8" shanks. Use to shape all materials except hard steel. **\$14.95 ea.**

Item #	Diameter	Item #	Diameter	Item #	Diameter
H. 60672	1/4"	K. 60676	1/4"	M. 38185	1/8"
J. 60674	1/4"	L. 60677	1/4"	N. 60679	1/16"

**P. #12101 14-piece Drum Sander Set** Get professional results in wood or metal with these hard-to-find tools. Abrasive band slips over rubber drum; tightening the screw or nut on arbor expands the drum to hold band securely in place. 1/8" shank fits rotary tools, flex shafts and drill presses. **\$14.95** See our website for sanding band refills.

**Q. #82544 Router Bits, Set of 6** These 1/8" shank router bits are used to put a decorative edge on wood projects and for making miniature molding. For best results, use with a rotary tool and the #60485 Dremel Shaper Table Attachment (below). **Super Buy \$36.95**

**#60485 Dremel Shaper Table Attachment** fits most Dremel tools. **Super Buy \$39.95**



## Universal Rotary Tool Chuck Makes Bit Changes Fast & Easy

1/8" shank fits all rotary tool brands and holds drill bits and accessories from 1/64" to 1/8". Eliminates the need to change collets each time you swap out bits and accessories. A must-have for all rotary tools. **\$19.95**



## Keep Power Tools, Work Lights, Hanging Plants and More Within Easy Reach

This clever device hold tools, work lights and more suspended out of the way when not in use...then quickly and effortlessly lowers them to a comfortable working position with one pull. Tough plastic-coated steel cable extends up to 59" and retracts automatically when tool is released. Tension can be adjusted to accommodate different weight objects (up to 3.3 lbs.). Ideal for rotary tools and other power tools. Can also be used to bring overhead lamps down to a working level and for raising and lowering hanging plants for watering. **#90966** Hold-It Tool Balancer **\$21.95**

**2 or more \$19.95 ea.**

Tool not included.

## Versatile 100-piece Accessory Set is an Amazing Value!



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. A great value!

**#83097** 100-piece Accessory Set  
Value \$80.00 ... Our Price **\$19.95**

## Emery Cutting Wheels

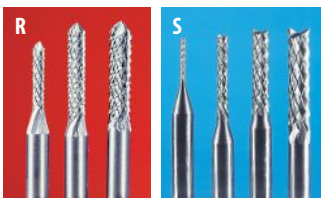


For cutting off metal rods, tubes, music wire and other hardened steel. 15/16" dia.

**#38249X2** 72 pieces/pkg. **\$9.95/pkg.**

**#14142X2** Mandrels for above (2) **\$4.95**

## Carbide Router Drills & Bits



**R. 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 **\$13.95**

**#60718** 3/32" Cutting Diameter **\$13.95**

**#60719** 1/8" Cutting Diameter **\$13.95**

**#60795** Set of all 3 Router Drills **\$39.95**

**S. Fish Tail Carbide Router Bits** cut smooth, flat bottom holes in wood, hard plastic and fiberglass. 1/8" shanks make them ideal for use in rotary tools and mini routers. 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 **\$13.95**

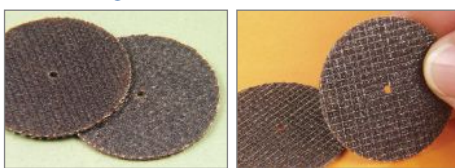
**#80246** 1/16" Cutting Diameter **\$13.95**

**#80247** 3/32" Cutting Diameter **\$13.95**

**#80248** 1/8" Cutting Diameter **\$13.95**

**#80254** Set of all 4 Fish Tail Bits **\$39.95**

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



These 1-1/2" diameter x .050" thick 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. **NOTE: #14140 cuts non-ferrous materials (glass, plastic, ceramic, aluminum, copper, brass); #14141 cuts ferrous materials (steel, steel alloys, hard bronze and other high tensile strength materials). 2 disks per package.**

**#14140** Cut-Off Wheels for Non-Ferrous Materials **\$6.95/pkg.**

**#14141** Cut-Off Wheels for Ferrous Materials **\$6.95/pkg.**

**#14142X2** Mandrels for above (pkg. of 2) **\$4.95**



**#86047**  
6-piece HSS Saw  
Blade Set with Mandrel

Use with your rotary tool to slice through soft woods with ease. Rated for use up to 20,000 rpm, these small-size blades provide big cutting power in places larger saws can't fit. Set includes 1 each: 23 mm x 60 teeth, 25 mm x 36 teeth, 33 mm x 36 teeth, 35 mm x 36 teeth, and 44 mm x 72 teeth, plus one heavy duty mandrel with 3 mm shank; 2" long overall. **\$15.95**



**#87404 Rotary Tool Shield** Heavy duty screw-on plastic shield provides a clear view while protecting you from flying debris while you work. **\$11.95**



Cushioned Sanders  
for Rotary Tools  
& Drills

Disks sold separately below.

Cushioned Sanders are just the right size for smoothing contours with delicate control, gliding over rounded surfaces instead of digging into them. Great for smoothing lathe-turned workpieces to perfection. Hook-and-loop fastening for quick disk swaps.

**#86926**

1" Cushioned Sander;

1/8" Shank **\$12.95**

**#86930** 1" Abrasive Disks;

80 Grit **\$10.95**

**#86927** 2" Abrasive Disks;

80 Grit **\$10.95**

**#86925**

1" Cushioned Sander;

1/4" Shank **\$12.95**

**#86931** 1" Abrasive Disks;

120 Grit **\$10.95**

**#86928** 2" Abrasive Disks;

120 Grit **\$10.95**

**#86924**

2" Cushioned Sander;

1/4" Shank **\$13.95**

**#86932** 1" Abrasive Disks;

220 Grit **\$10.95**

**#86929** 2" Abrasive Disks;

220 Grit **\$10.95**

## A Micro-Mark Exclusive!

### A New Spin on Bit Holders

Our rotary bit holder has 114 1/8" diameter 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.

**#84285**

Rotary Bit Holder

List \$28.00 ... **\$17.95**



Bits and tools not included.  
Color may vary.



MicroLux® MINI  
Rotary Tool Super Value Package

The thinnest rotary tool available in this power range.

**Package includes:** #86698 MicroLux® MINI Rotary Tool • #15238 3-Jaw Keyless Chuck • #86340 265-piece Accessory Set • #86676 10-piece Carbide Drill Bit Inch Set.

**#87895** MicroLux® MINI Rotary Tool Super Value Package

Value \$199.80 **Super Buy \$144.95**

**#87895K** MicroLux® MINI Rotary Tool Accessory Value Package includes the chuck, 265-piece accessory set and drill bits from the set above, minus the rotary tool.

Value \$114.85 **Super Buy \$89.95**



MicroLux® MICRO Rotary Tool  
Super Value Package

Step up to the most ergonomic rotary tool in the world.

**Package includes:** #86694 MicroLux® MICRO Rotary Tool • #86675 10-piece Metric High-Speed Steel Drill Bit Set • #87505 6-piece Grinding Wheel Set • #84447 Diamond Bits, set of 2.

**#87894** MicroLux® MICRO Rotary Tool Super Value Package

Value \$119.80 **Super Buy \$79.95**

**#87894K** MicroLux® MICRO Rotary Tool Accessory Value Package includes all the bits and wheels from the set above, minus the rotary tool.

Value \$49.85 **Super Buy \$34.95**

## Hold It However You Want It with Our Universal Clamp

Ingenuous tool holds small and odd-shaped parts at any angle and hands-free for carving, sawing, filing, etc. The eight included steel pins adjust to 60 different positions to hold even the most irregular shapes. The heavy base features molded-in holes for bench mounting. Includes 2" diameter solid aluminum head with steel guide pins and screw.

**#89252** All-Position Universal Clamp with Base **\$30.95**



**#90737** 40x Illuminated Jewelry Loupe with LED Lights features 1 white LED light and 1 UV light, allowing you to see objects clearly in low light, or even in the dark. Folds-up into its built-in case for safe, secure storage. **\$9.95**



## Our money-saving Super Value Packages are a great way to expand your workshop or get involved in a new hobby!



### Ultimate Airbrush Outfit Super Value Package

Getting started with airbrushing has never been easier!

**\$13**  
ADDITIONAL  
FREIGHT  
APPLIES IN  
LOWER 48 STATES

**Package includes:** #86112 MicroLux® Airbrush Set • #86104 Fold-Up Spray Booth • #86108 MicroLux® Portable Compressor • #86113 Regulator • #86117 Paint Jars • #29270 Micro-Mark Basic Color Acrylic Airbrush Paint Set • #80975 Cordless Paint Mixer. **#86790 Ultimate Airbrush Outfit Super Value Package.** Value \$384.65 **Super Buy \$299.95\***

Our Super Value Packages are designed to take the guesswork out of building your ultimate workshop by offering you the best tools and the perfect complement of accessories to give you the most "bang for your buck" and get you up and running right out of the box. Plus, you'll save money, because all of our Super Value Packages feature significantly discounted pricing compared to purchasing the components separately. It's a win/win!



### Variable Speed 5" Disk Sander Super Value Package

The best variable speed 5" Disk Sander is back with a complete, multipurpose package that will finish your projects to perfection in your shop and on-the-go.

**Package includes:** #90037 Variable Speed 5"

Disk Sander with #90058 Abrasive Cleaning Stick, 6 Sanding Disks, Bench Mount Clamp, Miter Guide and Dust Adapter • #89348 Micro-Mark Heavy Duty Tool Case • 30 five-inch Sanding Disks (six 5-packs) in the following grits:  
#38109 80 Grit, #38110 120 Grit,  
#90059 240 Grit, #90060  
320 Grit, #90061 400 Grit.

**#90037K**  
Variable Speed 5" Disk Sander  
Super Value Package.  
Value \$229.65  
**Super Buy \$199.95**



### Resistance Soldering

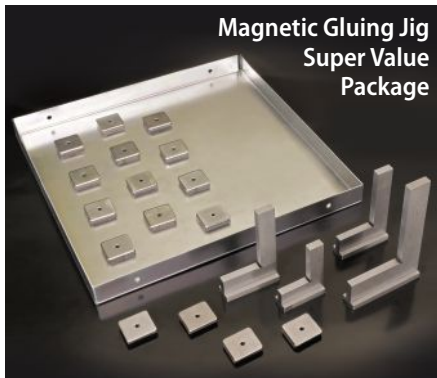
### Super Value Package

You'll never go back to regular soldering again!

**Package includes:** #85522 MicroLux® Resistance Soldering Unit • #86589 MicroLux® Soldering Tweezer • #80822 Stay Brite Silver Solder and Flux • #85151 Soldering Tweezer with Stand • #60381 Soldering Iron Stand • #70219 6" x 6" Soldering Pad • #14318 50 T-Pins • Metal Assortment.

**#87726 Resistance Soldering Set Super Value Package**  
Value \$323.69 **Super Buy \$229.95\*\***

**#87726K Resistance Soldering Accessory Value Package** includes everything in the set above except the R.S.U. Value \$143.19 **Super Buy \$119.95**



### Magnetic Gluing Jig Super Value Package

Perfect for precision mini assembly, this package takes one of our all-time most popular tools to the next level.

**Package includes:** #60304 Magnetic Gluing Jig, 10-1/4" Square, with eight Magnetic Plates • One #89328 Wide Base 2" Vertical Steel Square • Two #89329 Wide Base 3" Vertical Steel Squares • One #89330 Wide Base 4" Vertical Steel Square • #60305 Set of 8 Additional Magnetic Plates.

**#89639 Magnetic Gluing Jig Super Value Package**  
Value \$105.75 **Super Buy \$79.95**

### MicroLux® Powered Chisel Super Value Package



Create amazing carvings in a fraction of the time it would take to carve by hand.

**Package includes:** #86720 MicroLux® Powered Chisel • #86721 5-piece Carving Blade Set • #86727 Chisel Sharpening Stone.

**#87893 MicroLux® Powered Chisel Super Value Package**  
Value \$194.85 **Super Buy \$169.95**

**#87893K Powered Chisel Accessory Value Package** includes the carving blade set and sharpening stone from the set above, without the powered chisel.  
Value \$64.90 **Super Buy \$49.95**



### MicroLux® Multi-Saw Super Value Package

Perfect for hobbyists, jewelers, crafters and DIYers, Multi-Saw is a power coping saw and scroll saw all in one!

**Package includes:** #87776 MicroLux® Variable Speed Multi-Saw • #81387 Easy-Mount Bench Bracket • #87607 "Big Book Of Scroll Saw Woodworking" • Plus 30 premium saw blades: 10 each #80856, #80857 and #87937.

**#87947 MicroLux® Multi-Saw Super Value Package**  
Value \$270.70 **Super Buy \$209.95**

**#87947K MicroLux® Multi-Saw Accessory Value Package** includes the bracket, book and blades only. Value \$110.75 **Super Buy \$79.95**

### Mega Mini R8 Milling Machine Super Value Package

Everything you need to start your own mini machine shop!

**Package includes:** #84630 MicroLux® High Precision Heavy Duty R8 Miniature Milling Machine with 1/2" drill chuck and drawbar, table locks, column lock and drill stop, power supply with feedback-sensing power boost circuitry, V-way chip guards, chuck/collet chip guard, indicator scales for the X and Z directions, fine-adjust knob for the Z direction, safety cut-off switch, wrench set and instruction manual/parts diagram.

**#84692 Digital Speed Readout** with magnetic base plugs into control panel; displays spindle speed in RPM.

**#87348 Super Duty Power Feed** controls table speed from 0 to 20" per minute in both directions to automatically power off motor at end of run.

**#84700 ER Collet Set** includes 3/64, 3/32, 1/8, 3/16, 7/32, 1/4, 5/16, 11/32, 3/8, 13/32, 7/16, 1/2, 17/32, 9/16 and 5/8 inch collets, plus wood case.

**#82576 8-piece End Mill Set (Single End)** includes eight center cut, 2-flute end mills: 1/8, 3/16, 1/4, 5/16, 3/8, 1/2, 9/16 and 5/8 inch.

**#82577 Quick-Lock Milling Vise** bolts directly to top of milling table. Jaws are 4" wide x 7/8" deep and open 3-1/8". Overall height 2-5/8".

**#89255 Mega Mini R8 Milling Machine Super Value Package**  
Value \$2,594.70 **Super Buy \$2,299.95\***

**#89255K Mega Mini R8 Milling Machine Accessory Value Package**  
If you already own the Mini R8 Milling Machine, you can still get all the accessories above for one great price! Value \$994.75 **Super Buy \$899.95**



## MicroLux® Drill Presses Are Just the Right Size with Just the Right Features for All Small Drilling Projects

**Features include:** Changeable speeds to accommodate various materials • Rugged cast metal housing • No-flex solid steel column • Precision 3-jaw chuck and key • Ball bearing spindle assures low vibration, high accuracy and long life • Calibrated depth control with positive stop • High-torque motor plugs into standard 120VAC outlet • Quick release handle lets you adjust chuck-to-base distance instantly • Cast metal base with machined surface keeps your work square and true and takes up minimal workbench space.

## MicroLux® Heavy Duty Drill Press with Variable Speed Control and Digital Depthfinder

- Spindle travel: 1-9/16" • Chuck to base distance: 8"
- Center of chuck to front of column: 6-1/2" • Column diameter: 1.181" • Chuck capacity: 1/64" to 1/4"
- Drive: 2-step pulley with 150W variable speed motor
- Base size: 6-1/2" x 10-13/16" • Spindle: 0 to 3600 rpm; 0 to 5000 rpm; JT1 taper (male) • Headstock and base construction: cast iron • Digital depthfinder with re-zero indicates spindle movement in inches or mm
- Dial speed control with PWM for high torque at low speed
- Weight: 27 lbs.; Height: 16"

#82959  
MicroLux®  
Heavy Duty  
Variable Speed  
Drill Press **ONLY**  
List \$400.00  
Our Price **\$379.95\***

\$7  
ADDITIONAL  
FREIGHT  
ANYWHERE IN  
LOWER 48 STATES

#87728  
MicroLux® Heavy Duty  
Variable Speed Drill Press  
Super Value Package

\$22  
ADDITIONAL  
FREIGHT  
ANYWHERE IN  
LOWER 48 STATES

## MicroLux® Heavy Duty Variable Speed Drill Press Super Value Package

**Package includes:** #82959 MicroLux® Heavy Duty Variable Speed Drill Press with Depthfinder • #88421 60-piece High Speed Steel Drill Bit Set • #82546 Quick Jaw Vise • #10101 Machinist's Center Punch.

#87728 MicroLux® Heavy Duty Variable Speed Drill Press Super Value Package. Value \$463.85 **Super Buy \$399.95\***

#87728K Variable Speed Drill Press Accessory Value Package includes the drill bit set, vise and center punch from the set above, minus the drill press. Value \$83.90 **Super Buy \$64.95**

\*Use our website shopping cart to calculate freight charge for shipments outside 48 contiguous United States.

## Drill Press Vise



Grooved base fits on MicroLux® Standard Duty Drill Press sliding gauge, or mount with clamps to X-Y Table. Made of cast aluminum with easy grip plastic knob and steel screw. Jaws are 2" wide with grooves for holding round stock. Also has a handy anvil top with a cast-in hole for supporting micro size parts while drilling. Jaws open to 1-1/4".

#15118 Drill Press Vise **\$29.95**

## X-Y Table Attachment Increases Drill Press Accuracy by 30 Times!

The MicroLux® X-Y Table Attachment increases the accuracy of hole locations to within .0005" of true position – 30 times better than "eyeball" center-punching! Table positioning is controlled in the X and Y directions by smooth-acting zero-adjustable handwheels. Adjustable gibs in dovetail guides maintain accuracy and eliminate side play even after many years of use, and special retractable covers keep the lead screws free of chips. Although designed specifically for both MicroLux® Drill Presses, our table attachment can be easily mounted to other machines. Includes sliding front scale, hold-down clamps, mounting hardware and template, and hardware for mounting the #15118 Vise (at left). Made of steel, aluminum and engineering polymers.

**X Direction travel:** 5-1/4"

**Y Direction travel:** 1-3/4"

**Table size:** 8-1/4" L x 2-3/4" D

**Dial graduations:** .001"; .050" per revolution

**Base size:** 3-3/4" x 5-1/2"

**Overall size:** 10-1/2" L x 7-1/2" D x 1-11/16" H

#82389 MicroLux® X-Y Table Attachment. List \$160.00... Our Price **\$99.95**

## Step Clamp Set for X-Y Table



Step blocks and clamp bars adjust to the height you need to clamp workpieces to the #82389 X-Y Table Attachment shown above. See our website for details.

#84762 Step Clamp Set **\$49.95**

## Jig Putty to the Rescue!

Have you ever needed to drill, sand, file, engrave, saw, paint or manipulate an item that could not be held in a vise or clamp due to its fragility and/or irregular shape? **Micro-Mark Jig Putty is the answer!** Just mix this 2-part putty together and form it around the item to hold it safely.

#91144JP Micro-Mark Jig Putty **\$38.95**



#91144JP

**10-piece Carbide Drill Bit Sets** These super sharp, longer-lasting bits cut cleaner holes – and do it fast – in a wide variety of materials. 1/8" shank. Plastic storage case included. List \$45.00 ea. Our Price **\$39.95 ea.**

#86676 10-piece Carbide Drill Bit Inch Set includes: 1/64, #75 (.021"), 1/32, #61 (.039"), 3/64, 1/16, 5/64, 3/32, 7/64 and 1/8.

#86677 10-piece Carbide Drill Bit Metric Set includes: .5, .6, .7, .8, .9, 1.0, 1.5, 2.0, 2.5, 3.0 mm.

#86675 10-piece HSS Metric Drill Bit Set with 3/32" shanks: .7, .8, .9, 1.0, 1.4, 1.6, 1.8, 2.0, 2.2 mm. **\$29.95**



#86676

## MicroLux® Standard Duty 3-speed Mini Drill Press



#88537 MicroLux®  
Variable Speed Mini Drill  
Press Super Value Package



- High quality... Made in Japan
- Spindle travel: 1-1/4"
- Chuck to base distance: 7"
- Center of chuck to front of column: 5-1/2"
- Column dia: .787"
- Chuck capacity: 1/64" to 1/4"
- Spindle speeds: 2100, 4500, and 6500 rpm
- Spindle: 3/8-24 male
- Drive system: 3-step pulley with 90 watt constant speed motor
- Base size: 5" x 9"; Height: 14"
- Headstock and base construction: cast aluminum
- Weight: 8 lbs.

#81631 MicroLux® Standard Duty 3-speed Mini Drill Press **ONLY**. List \$280.00 Our Price **\$199.95**

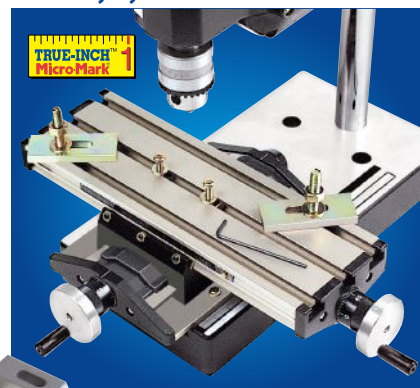
#15117 Extra Drive Belt for above **\$9.95**

## MicroLux® Variable Speed Mini Drill Press Super Value Package

**This package transforms the MicroLux® Standard Duty 3-speed Mini Drill Press into a variable speed machine.**

**Package includes:** #81631 MicroLux® Mini Drill Press • #88343 Table-top Speed Control • #15118 Drill Press Vise • #14143 8-Piece Drill Bit Set, 1/64" to 1/8". #88537 V.S. Mini Drill Press Super Value Package. Value \$353.80 **Super Buy \$299.95**

#88537K MicroLux® Variable Speed Mini Drill Press Accessory Value Package converts your existing #81631 MicroLux 3-Speed Standard Duty Mini Drill Press into a variable speed machine. Includes the 3 accessories from #88537, minus the Drill Press, for one great price. Value \$145.85 **Super Buy \$129.95**



TRUE-INCH  
Micro-Mark



## Award-Winning Big Gator Drill Guides are Like Having a Drill Press in Your Pocket (But a Lot More Comfortable)



Drill, clamp, etc. not included.

The precision-ground bases of Big Gator Drill Guides allow you to drill perpendicular, straight holes every time with any ordinary hand-held drill...no drill press required! Use on flat surfaces, round parts, and corners. Made of special nickel alloyed steel and heat treated for durability, these unique, American-made tools have a lifetime warranty.

**#90862 Big Gator Tool V-Drill Guide® - Standard (1/8" - 3/8")** features 17 holes in 1/64" increments: 1/8, 9/64, 5/32, 11/64, 3/16, 13/64, 7/32, 15/64, 1/4, 17/64, 9/32, 19/64, 5/16, 21/64, 11/32, 23/64 and 3/8 inch. **\$29.95**

**#90861 Big Gator Tool MINI V-Drill Guide®** - Standard features 21 drill sizes: #10, 21, 25, 29, 30, 1/8, 33, 7/64, 36, 37, 38, 40, 3/32, 43, 45, 47, 5/64, 50, 1/16, 53, and 3/64 inch. Covers all tap drill sizes for taps from 10-32 down to 0-80. **\$29.95**

### Hard-to-Find High Speed Steel Drill Bit Sets

**#82727** This most-asked-for 20-piece set includes one each of #41 (.096") through #60 (.040") in a pouch that's numbered for easy identification. **\$24.95**

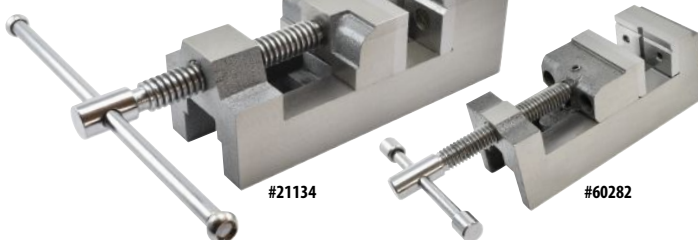
**#14143** 8-piece inch set includes one each 1/64", 1/32", 3/64", 1/16", 5/64", 3/32", 7/64" and 1/8". **\$13.95**

**#60437** 10-piece metric set includes 1 each .5 mm to 5 mm, in .5 mm increments. **\$14.95**

#82727



### Toolmaker's Vises Hold Tight for Drill Press Work



#21134

#60282

Machinists and toolmakers always lock their work in a vise. Our vises are cast and ground tool steel. Both will stand flat on base or side and have vertical and horizontal V grooves in jaw faces for holding round stock. Heavy-duty, well-made tools for a lifetime of use.

**#21134** Full-size model weighs over 5 lbs. Has 2-1/2" wide x 1-1/2" deep jaws. 2-1/2" capacity. List \$75.00... Our Price **\$49.95**

**#60282** Mini model weighs 1-1/2 lbs. 1-7/16" wide x 7/8" deep jaws. 1-3/4" capacity. List \$55.00... Our Price **\$39.95**

### Micro-Size Drill Bits

Our drill bits are top quality high speed steel for use on wood, plastic and metal and will stay sharp far longer than ordinary carbon bits.

**#26104 Micro Drill Bit Set with Steel Index** includes 20 bits from #61 (.039") to #80 (.0135"). Folding index features embossed I.D. for each bit. List \$25.00... Our Price **\$16.95**



#26104

#### Drill Bit Six-Packs\* - \$8.95/package \*Six of the same size bit in an envelope

Six-packs include six same-size high speed steel drill bits in an envelope. For use on wood, plastic and metal.

**#15167** #61 (.039") **#15169** #63 (.037") **#15171** #65 (.035") **#15173** #67 (.032") **#15175** #69 (.0292") **#15177** #71 (.026") **#15179** #73 (.024")  
**#15168** #62 (.038") **#15170** #64 (.036") **#15172** #66 (.033") **#15174** #68 (.031") **#15176** #70 (.028") **#15178** #72 (.025") **#15180** #74 (.0225")

#### Drill Bit Six-Packs\* - \$9.95/package \*Six of the same size bit in an envelope

**#15181** #75 (.021") **#15182** #76 (.020") **#15183** #77 (.018") **#15184** #78 (.016") **#15185** #79 (.0145") **#15186** #80 (.0135")



**#88421 60-piece High Speed Steel Drill Bit Set** is loaded with #1 through #60 high speed steel drill bits forged with M2 grade steel and fully ground to provide high wear-resistance. Use for drilling mild and standard steel, wood, plastics and more. Bits are packed in a sturdy metal box equipped with a multi-tiered, easy-access rack. Drill bits are ground with a 118° angled tip. **\$39.95**

**#86372**  
50-piece  
Titanium Nitride  
(TiN) Coated  
Mini Drill Bit Set



Includes 10 each 1/16, 5/64, 3/32, 7/64 and 1/8 inch diameter high speed steel mini bits packaged in a compartmented plastic case. Use on wood, metal, plastic and more. List \$30.00 Our Price **\$24.95**

### Automatic Center Punches Save Time, Increase Accuracy

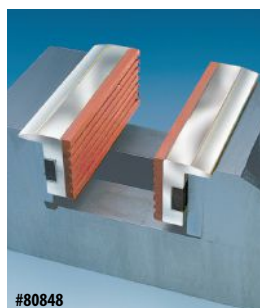


Excellent for creating a dimple in wood, plastic and metal to keep your drill bit from wandering. They're also used for marking, starting wood screws, perforating, embossing, simulating rivets and countersinking miniature nails. Just set variable pressure adjustment screw for light, medium or heavy stroke, press point against surface and the self-contained hammer mechanism automatically releases.

**#10101 Machinist's Type Center Punch**  
Hardened and tempered point.  
1/2" dia. x 5" long. **\$14.95**

**#10102 Jeweler's Type Center Punch**  
Lightweight, pencil size with aluminum body, pocket clip and hardened steel point.  
5/16" diameter x 5-1/2" long. **\$29.95**

### Gentle Jaws Hold Parts Securely Without Marring



#80848



#89241

Non-marring jaw faces hold parts securely, yet gently, preventing damage to soft and delicate items. Magnets on the back side keep the jaws in place on steel and cast iron vises (like #21134, at left). Gentle Jaws are 3" wide. Sold in sets of 2.

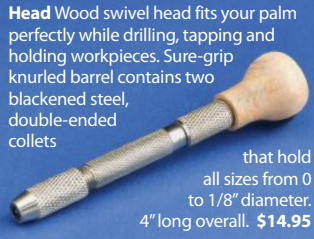
**#80848** Rubber-Lined Gentle Jaws, 3" wide x 1-1/4" tall. List \$25.00 Our Price **\$14.95**

**#89241** Leather-Lined Gentle Jaws, 3" wide x 1-3/8" tall. **\$14.95**

### #86136 Pin Vise with Wood Swivel Head

Wood swivel head fits your palm perfectly while drilling, tapping and holding workpieces. Sure-grip knurled barrel contains two blackened steel, double-ended collets

that hold all sizes from 0 to 1/8" diameter.  
4" long overall. **\$14.95**



**#90317 Slim Line Precision Pin Vise** offers a contoured non-slip plastic handle with an "X" sliced precision collet. Accepts #61 - 80 drills bits for delicate, balanced drilling. 3-3/4" long with knurled metal collet nut. Collet closes to zero. **\$9.95**

## Use Pin Vises for Holding Drill Bits, Reamers, Needle Files, Screws, Taps, Wires... Even Pins



**#21106 Heavy Duty Pin Vise** for holding larger size drill bits, files, taps, etc. Plastic handle with keyless Jacobs type chuck holds all shanks from #72 (.025") – 1/4" dia. 6" long. **\$14.95**



**#21105 Swivel Head Pin Vise** with freewheeling head is especially suited for drilling and tapping. Nickel plated steel with two double-ended collets: 0, 1/16, 3/32 and 1/8". 3-1/2" long overall. **\$13.95**



**#15116 High Precision Micro Pin Vise** This exceptionally well-made Swiss tool holds micro-size drill bits from #61 (.039") through #80 (.0135"). Can be used by hand or locked in a drill press. Made of nickel plated solid brass. 2" long overall. **\$14.95**



**#82110 Deluxe Pin Vise** We've combined the comfort and ease of use of our Ball End Pin Vise with the convenience of our Universal Chuck to provide a tool that's sure to become one of your favorites. Holds all drills, taps and bits with shank diameters from 1/64" through 1/8". Includes four collets: 0, 1/16, 3/32 and 1/8". 4-3/4" long overall. List \$40.00... Our Price **\$29.95**



**#21104 Double-End Pin Vise** with reversible steel collets in each end. Hex head prevents rolling on bench. Includes 4 collets: 0, 1/16, 3/32 and 1/8". Nickel plated brass. 4-1/8" long overall. **\$12.95**



**#60348 Micro Drill for Delicate Hand Drilling** Knurled ring slides up and down the spiral brass handle, causing the drill bit to turn. Drill holes in wood, plastic and thin brass in half the time as an ordinary pin vise. Swivel head lets you exert downward pressure while drilling. Steel chuck holds bits from no. 61 through 80. A nicely made tool and a worthwhile addition to any modeler's or miniaturist's workshop. 4" long overall. **\$14.95**



**#26101 Spiral Push Drill** Often used by jewelers, this unique drill operates by pushing the handle up and down along the spiral bar. Fast, easy, accurate and portable. Better than a pin vise for drilling multiple small holes in hard-to-reach places. Steel collets hold drill bit sizes from 0" to .059" (#53). Approx. 7-1/2" long. **\$24.95**

## Special Chucks Fit Cordless Screwdrivers for Slow Speed Drilling

Most drills and rotary tools spin too fast for working in plastic and for doing fine detail work. These special chucks have 1/4" hex shanks that fit slow-turning cordless screwdrivers and other cordless drills to solve this problem. Make the most of the quick-change feature of the 1/4" shank... buy several chucks and keep your most-used drill bits ready to go.

**#82541 Precision Micro Chuck for Cordless Screwdriver.** Holds drill bits from #60 to #80. **\$13.95**  
**3 or more \$9.80 ea.**

**#81852 Mini Chuck for Cordless Screwdriver.** Holds drill bits from #59 to 1/8". **\$12.95**  
**3 or more \$9.75 ea.**

*Also works as an adapter for your oversized drill chuck, quickly converting it for precise drilling with micro-size bits.*



### #82416 The Rogers Drill Bit Set...

#### Preferred by Experienced Modelers

Ultra-sharp high-speed steel drill bits, easy-to-read markings and convenient arrangement makes this set very popular with experienced makers. Includes twenty bits (nos. 61 through 80), drill stand and clear plastic dome for safe storage. List \$36.00... Our Price **\$29.95**



*Also fits Dremel drill presses and workstations.*

The slots in our vise and the mounting screws we provide let you position your work in almost any location. The spring action spindle latch holds work tightly or releases in an instant. Made of steel and cast aluminum. Jaws are 2-3/4" wide x 1" deep. One jaw has horizontal V grooves to hold round stock. 2-5/8" capacity; closes to 0. A great vise for a wide variety of uses.

**#82546 Quick-Jaw Vise Super Buy \$29.95**



This well-made steel pin vise set features knurled no-slip grips and a black oxide finish to resist corrosion. Set holds drill bits and wire from 0 to 3/16". Handles are 3-1/2" to 4-1/4" long, 5/16" to 1/2" dia.

**#81497 4-piece Pin Vise Set \$18.95**



### Bit & Screw Gauges

**#10123 Drill Bit and Screw Gauge** Measures drill bits from #1 – #60. Includes decimal equivalents, tap, tap drill and body drill size chart for machine screw sizes from 2-56 – 1/4-28. Made of hardened and ground carbon steel. Overall size: 2-1/2" x 6-1/2". **\$19.95**

**#14521 Micro Drill Bit Gauge** quickly identifies micro drill bits from no. 61 – no. 80. Easy-to-read markings indicate bit number and decimal inch size. Overall size: 3" x 1". High-quality hardened and ground carbon steel. **\$19.95**

**#85711 French-Style Pin Vise Set** Beautifully crafted set of six pin vises with straight-knurled brass barrels for superior grip. Square collet nuts keep them from rolling off your workbench. Lengths range from 3" to 5". Includes 12 steel collets to handle all sizes of drill bits and pins from 0 through .144" diameter. **\$25.95**



## Finger Drills for Delicate, Precise Drilling of Small Holes



These drilling tools are ideal for those times when you need the maximum amount of control for drilling in wood and plastic. And since each drill has its own handle, you won't waste time changing bits the way you have to when using a pin vise. All bits are high speed steel mounted in knurled, no-slip aluminum handles.

**#60931 Set of 4, #50 (.0700"), #52 (.0635"), #54 (.0550") and #56 (.0465") \$20.95**

**#60932 Set of 4, #58 (.0420"), #60 (.0400"), #62 (.0380") and #64 (.0360") \$20.95**

**#60933 Set of 4, #66 (.0330"), #68 (.0310"), #70 (.0280") and #72 (.0250") \$19.95**

**#60934 Set of 4, #74 (.0225"), #76 (.0200"), #78 (.0160") and #80 (.0135") \$20.95**

**#60935 Set of 4, 1/64", 1/32", 3/64", 1/16" \$20.95**



## Complete Micro Tap & Die Sets in SAE and Metric

These are the finest complete micro-size tap & die sets that we have ever seen. Premium-quality sets include combination die stock/tap handle, #1 and #2 tap inserts, **TWO** of each size tap, a selection of UNC and UNF non-split dies, and molded case with clear lid. **\$84.95 each**

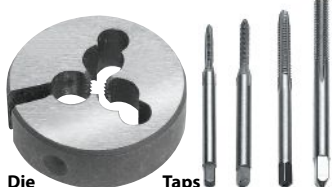
**#90523 SAE Micro Tap & Die Set**  
includes seven 15/32" dia. dies: 00-90, 0-80, 1-64, 1-72, 2-56, 2-64, 3-48; and two 5/8" dia. dies: 3-56 and 4-40, plus two of each matching taper taps.

**#90524 METRIC Micro Tap & Die Set**  
includes seven 15/32" dia. dies: M1.0, M1.1, M1.2, M1.4, M1.6, M1.8, M2.0; and two 5/8" dia. dies: M2.2 and M2.5, plus two of each matching taper taps.



*Ideal for jewelers, watchmakers, technicians, makers, DIYers and craftspeople!*

## Hard-to-Find Taps and Dies in Micro Miniature Sizes



Use these machine screw taps and dies for models, clocks, instruments, watches and business machines. Both taps (for putting threads in a hole made with tap drill) and dies (for putting threads on a rod) are high speed steel. Dies are 13/16" outside diameter and are adjustable for thread fit allowance. *See our website for individual taps and dies, tap drills and clearance drills.*

### Tap Sets

**#87697 Four-piece Micro Size Tap Set \$29.95**  
00-90, 0-80, 1-72 and 2-56  
*Use with our mini hardware!*

**#82327 Five-piece Metric Tap Set \$39.95**  
M1.6x.35  
M2.0x.40  
M2.5x.45  
M3.0x.50 and M4.0x.70

### Tap and Die Wrenches



**A. #20130 Tap Wrench \$7.95**  
**B. #14152 13/16" Die Stock (handle) \$9.95**

**#82110 Deluxe Pin Vise**  
holds all taps, drills and bits with shank diameters from 1/64" - 1/8". Includes four collets: 0, 1/16, 3/32 and 1/8". 4-3/4" long. List \$40.00... Our Price **\$29.95**

## Ratchet Drive Tap Holder for More Control



**#15126 Ratchet Drive "T" Handle Tap Holder** offers more control than conventional tap holders, especially on smaller size taps.

And more control means fewer broken taps and better threaded holes. Changes from left to right to neutral at the flick of a lever. Made of polished steel with hardened and ground jaws. Holds square-head taps from 00-90 through 6-32. **\$24.95**



When ultimate precision is a requirement for your micro-miniature project, nothing beats the accuracy of this premium quality square-drive 00-90 HSS H1 tap.

**#86636T**  
List \$45.00  
Our Price **\$19.95**

*Tap wrench and hardware available separately*

## The "Crab" Holds Odd-Shaped Parts



Individually adjustable pins grip round and odd-shaped parts while you work. Steel "feet" located on the bottom surface can be held in a vise while you drill, tap, grind and file. Removable red plastic bushings cover steel pins. Made of steel.

**#86517 Crab Parts Holder \$19.95**  
2 or more **\$15.95 ea.**



### Got Screws?

**#83438**  
1,000-piece Metric Micro Screw Set  
**\$24.95**

## A Micro-Mark Exclusive!

**#87362 MicroLux® Tapping Fixture** holds taps perfectly square to the base so threads are cut straight every time. The smooth-turning spindle and large knob provide the "feel" of hand tapping needed to minimize breakage, and the cast iron base assures stability for extra control. Precision chuck holds taps with shanks 1/64" to 1/4" dia. Clearance under chuck: adjustable up to 5-1/2". Distance from center of chuck to front of column: 4-3/4". Base includes 5/16" T-slots for mounting vises (#82546 Quick-Jaw Vise, sold separately) and clamps. Tapping fixture can also be used for hand-powered drilling and reaming, and is the perfect drill press for plastic.

List \$130.00... Our Price **\$119.95\***

### SPECIAL DESIGN FEATURES INCLUDE:

*Tighter-tolerance bushings for higher precision and greater accuracy, more ergonomic tightening knob, secondary column locking system and on-board tool storage.*

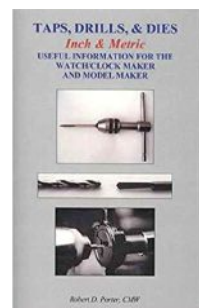


*Our #82546 Quick Jaw Vise is a perfect match with the MicroLux® Tapping Fixture. The vise is NOT included.*

**#82546 Quick-Jaw Vise, 2-5/8" capacity. Super Buy \$29.95**



**#14153 14-piece Tap and Die Set** includes tungsten steel taps and 13/16" OD (outside diameter) adjustable dies in the following sizes: 0-80, 1-72, 2-56, 3-48, 4-40 and 6-32, plus die stock, tap handle and clear-top plastic storage box. List \$150.00... Our Price **\$99.95**



**#89240 Taps, Drills, & Dies, Inch & Metric:** Useful Information for the Watch/Clock Maker and Model Maker, booklet by Robert Porter. **\$16.95**

## The Finest, Most Versatile Vise You'll Ever Own

This professional-quality vise is the most versatile you'll ever own! Tilt, turn, and rotate Panavise to any position with one turn of the control knob. 2-1/2" wide jaws open to 2-1/4" and close to zero. Includes replaceable satin-finish nylon jaw liners. Vise head and base are made from pressure-cast aluminum alloy with steel and brass inserts. Made in the USA.

**#21123 Complete Panavise**  
List \$60.00... Our Price **\$54.95**  
**#21125 Extra Nylon Jaws \$5.95**  
**#21124 Optional Steel Jaws \$13.95**



**#21126 Panavise Bench Clamp Mount** Lets you move your Panavise to different locations. Securely mounts to edge of workbench, table or counter up to 3-1/2" thick. Mounting screws included. **\$54.95**



## Precision Brass Mini Vise

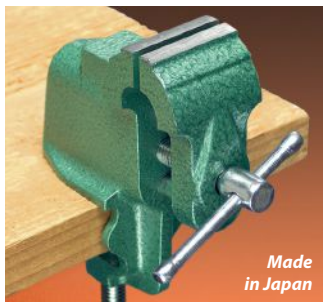


Mini jeweler's vise holds small parts while working in the hand or on the workbench. Brass jaws are held in perfect alignment by metal guide pins, and the fine-pitch adjustment knob lets you dial in just the force you need to grip parts securely. Grooves in the jaw face hold round items in both horizontal and vertical positions. Jaws are 1-1/2" wide; open to 1-1/2". Closes to zero.

**#83441 Precision Brass Mini Vise \$20.95**



## Well-Made Miniature Machinist's Vise at an Economical Price



Made in Japan

Our clamp-on miniature machinist's vise holds all types of small components securely. Smooth jaws won't mar your work the way serrated-jaw vises can. Made of cast iron with machined jaw faces and twin guide rods to keep jaws parallel. Includes a handy anvil surface for hammering. Clamps to benches up to 1" thick. Jaws are 1-1/2" wide with 1-1/2" capacity.

**#60297 Machinist's Vise \$34.95**

## Non-Marring, Nylon Head Metal-Forming Hammer & Mallet

**#90148**

**#90147**

**#90148 Non-Marring Nylon Wedge / Domed Hammer** This dual-purpose, non-marring solid nylon mallet features a domed side for dapping and forming large areas of sheet metal, and a wedge-shaped side for bending sheet metal and wire. Solid lacquered wooden handle is contoured for extra grip. Circular domed head is 1-1/4" diameter with the wedge end tapering to a rounded-over 1/4" wide edge. 10-1/2" long overall. **\$13.95**

**#90147 Non-Marring Nylon Head Mallet** This double-sided 9-1/2" long mallet has a 6 oz nylon head that provides the extra bit of force needed when forming metals and materials without damaging them. Solid lacquered wooden handle is contoured in 2 places to fit securely in the hand. Head is 1" in diameter and 3-1/2" long. **\$13.95**

## Economical Strip and Wire Bending Jig



A nice little tool for making bends in wire and metal strip stock. Steel pins are moved to different locations in the cast aluminum block depending on the shape you need. Includes triangular shape on one end for making bends less than 90° and a 1/2" radius shape on the other end for large smooth curves.

**#60401 Wire/Strip Bending Jig \$12.95**

## Professional Quality Machine Forms Smooth Curves in Wood, Plastic and Metal



A Micro-Mark Exclusive!

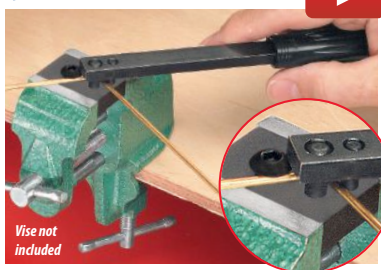
There's never been a better, easier-to-use tool for making perfect bends in ship model planking. Works on wood strips up to 2-1/4" wide and 1/8" thick...even plywood! But that's not all: It will also make smooth, no kink curves in plastic and metal strip stock and in 1/16", 3/32" and 1/8" tubing and soft wire. Simply set the rollers for the desired radius and turn the crank to feed and form the material. You can even create perfect radius curves in model railroad rail from N through O scales. Precision machined of aluminum with steel gears. Rollers are 1/2" diameter by 3" long.

**#81356 Bending Machine**  
List \$200.00 ... Our Price **\$149.95**

## Make Perfect Bends, Even in Hard Music Wire

Wire, rod and strip bender makes angles, loops, eyes, U, C and S shapes in brass, copper, and steel, quickly and easily. Even bends the hardest music wire up to 1/8" diameter. Made of steel with rust resistant black oxide finish and hardened radius pins. 7" long arm and rubber grip gives extra leverage for tough materials. Must be locked in a vise during use.

**#60346 Wire, Rod and Strip Bender**  
**\$29.95**



Vise not included



**#88040 Mini Angled Precision Shear**

Ergonomically designed shear is a pleasure to use while slicing your way through all kinds of materials. Leaf spring action takes the work out of normal shears, which require reopening the handles manually to perform long line cutting. Super-sharp blades cut plastic, leather, rubber, wood veneers, paper, and thin sheet metal with minimal effort.

**\$17.95**

## Revolving Punch Cuts Perfect Holes

Revolving turret-head punch cuts easily through leather, plastic, canvas, cardboard...even thin wood veneers. Cuts 2 mm, 2.5 mm, 3 mm, 3.5 mm, 4 mm and 4.5 mm holes. Blackened steel with tempered steel punches, brass anvil and vinyl grip.

**#82524 Hole Punch \$24.95**



## Jig for Precise Wire Forming

Intricate wire forms can be easily shaped with this jeweler's tool. The base has 326 holes drilled 1/4" apart on a diamond grid into which you place pins in the pattern you need. Wrap wire around these pins to make your wire form. 1/4" thick clear acrylic base lets you position a pattern underneath for easy pin placement. Includes 25 pins .078" diameter x 1" long. Base is 4" x 6".

**#85135 Wire Forming Jig \$20.95**

## No-Kink Benders for Small Tubing

Make smooth, no-kink bends in small diameter tubing. 5-piece set bends 1/16", 3/32", 1/8", 5/32" and 3/16" outside diameters. Zinc plated steel.

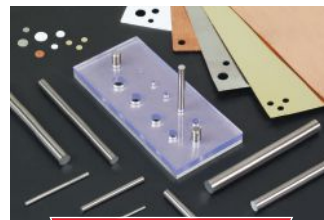
**#60360**  
**Tubing Bender Set \$9.95**



A Good Quality All-Position Vise for Less Money

**#81314 All-Position Vise** The head rotates 360° and also tilts from 0 to 90°, letting you position your work at the most accessible angle. All movements are locked by a single lever. For portability, the vise clamps to the edge of your workbench (up to 2-1/8" thick). Made of die-cast aluminum and nickel-plated steel. Jaws are 3" wide, open to 2" and feature slide-off rubber pads. Overall height above workbench is 6-1/4" (vertical position). A great value! **\$39.95**

## Micro Punch Set is Ideal for Making Mini Gauges, Lenses, Gaskets, Washers and More!



A Micro-Mark Exclusive!

Toolmaker-grade micro punch set makes perfect miniature disks from plastic, wood veneer, cloth - even metal! And it punches tiny holes in materials virtually impossible to drill: thin metal sheet, cork, rubber, vinyl, and more. Use it on pre-printed paper gauge-faces and clear acetate sheet to create the most realistic miniature instrument panels you've ever seen. Also makes custom size washers and miniature gaskets. Includes 9 precisely ground and hardened steel punches ranging from 1.0 mm (0.039") to 5.0 mm (0.197") dia. in 0.5 mm (0.0197") increments. Approx. overall size: 1-1/4" x 2-5/8".

**#83513 Micro Punch Set \$59.95**

## Precision-Made Mini Mallet with Muscle



This is the kind of mallet a professional toolmaker would fabricate for himself. The fully-machined 4 oz head includes screw-on tips with 1/2" dia. brass and nylon inserts for no-mar hammering. Comfortably contoured hardwood handle is secured with a screw fastener for wobble-free accuracy. Excellent for use with the Punch Set above. 9" long.

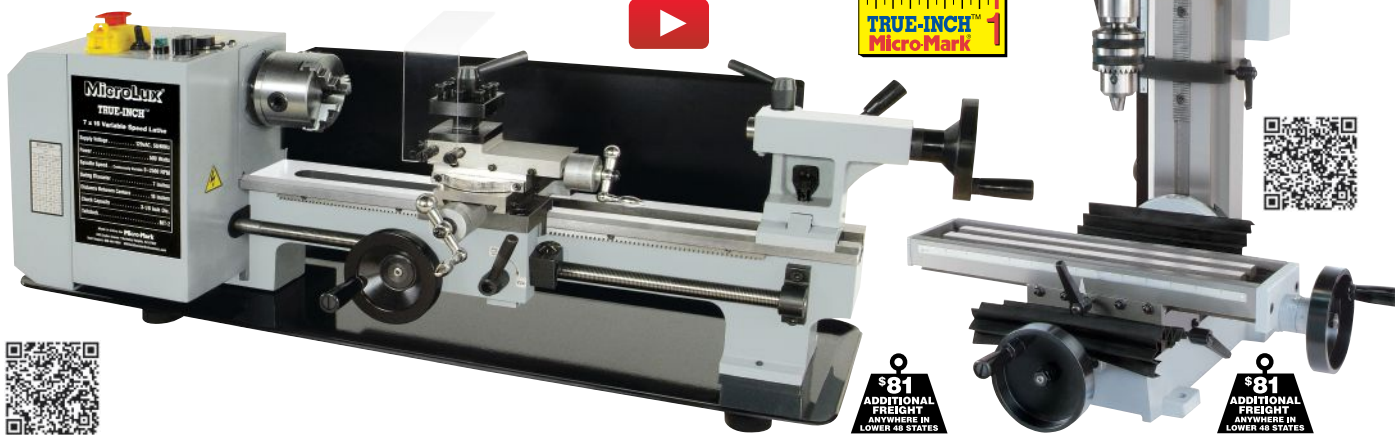
**#83434 Brass/Nylon Mallet \$24.95**

**#83435 Set of extra tips**  
(one brass; one nylon) **\$9.95**



**MicroLux® High-Precision Heavy-Duty 7 x 16 Lathe and R8 Mini Milling Machine...**  
**The ONLY "True Inch™" Machines on the Market!**

Feature-packed design and robust construction make the MicroLux® 7 x 16 Lathe and R8 Miniature Milling Machine well-suited for your most demanding turning and machining projects. Powerful 500W (2/3 hp) variable-speed brushless motors with ultra-quiet belt-driven spindles provide the muscle, versatility and smooth operation required to create fine finishes on all machinable metals including carbon steel, stainless steel, cast iron, aluminum, brass, copper, bronze, and nickel-silver, plus non-metals such as wood and plastic. Careful workmanship and features including hardened and accurately finished main spindles supported by high precision centripetal roller bearings give you high dimensional accuracy and long life. For operating convenience, we've equipped both machines with .050 inch-per-turn "True Inch" table feed screws and dials...no tedious metric conversions required. And, with the optional accessories available separately, these machines will perform virtually any task you'll ever need. *See our website for complete specifications.*



**Lathe features include:** Super rigid, heat-treated cast-iron bed with precision-ground V-ways • Carriage power feed • Reversing switch for bi-directional automatic feed and thread cutting • Zero-resettable handwheels • Four-position tool post • Cam-lock tailstock • Packed in sub-assemblies for safe, easy transport.

**#84631 MicroLux® 7x16 Lathe includes:**

3-jaw self-centering chuck with inside/outside jaws and wrench, compound slide with 5/8" capacity four-position tool post and chip deflector, MT2 dead center for tailstock, carriage power feed with change-gear set for threading, thread position indicator, splash guard, chip tray, tool set and instruction manual/parts diagram.

List \$1,800.00 . . . Our Price **\$1,599.95\***

**Milling Machine features include:** Super rigid, heat-treated cast-iron base, column and headstock with precision-ground V-ways • Tilting column for angle milling/drilling • .050" per turn table feed screws with zero-resettable dials • Powerful adjustable-speed motor with feedback-sensing power boost circuitry • Lever-actuated spring-assisted headstock.

**#84630 MicroLux® R8 Miniature Milling Machine includes:** 1/2" drill chuck and drawbar,

table locks, column lock and drill stop, power supply with feedback-sensing power boost circuitry, V-way chip guards, chuck/collet chip guard, indicator scales for the X and Z directions, fine-adjust knob for the Z direction, safety cut-off switch, wrench set and instruction manual/parts diagram.

List \$1,800.00 ... Our Price **\$1,599.95\***

## MicroLux® 7 x16 H🔥TROD Lathe Super Value Package



**#88175 MicroLux® Hotrod Lathe Super Value Package** includes #84631 MicroLux® 7 x 16 Mini Lathe, #84692 Digital Speed Readout, #86680 Lever & Handwheel Kit and #86681 Metal Gear Kit. Value \$2,054.80 **Super Buy \$1,799.95\***

**#86680 Handwheel & Lever Kit** Chrome-plated levers and anodized aluminum handwheels add gleaming shine and a blast of color, giving your MicroLux® machine the look of a hotrod in about 30 minutes. Plus, they feel as good as they look! **\$84.95**

**#86681 Metal Gear Kit** A superb upgrade to your MicroLux® Lathe, this kit replaces all of your lathe's stock plastic change gears for thread cutting, along with the two plastic 80 tooth gears for the power feed, with strong, dependable steel gears. A must-have item for the dedicated machinist. **\$139.95**

**#84692 Digital Speed Readout for 7 x 16 Lathe and R8 Milling Machine** includes magnetic base. Plugs into control panel to display spindle speed in RPM. **\$229.95**



## MicroLux<sup>®</sup> R8 Milling Machine Accessories

### #87348 Super Duty Power Feed

Saves laborious hand cranking and feeds table at uniform rate to produce fine milled finishes. Electronic circuitry controls table speed from 0 to 20" per minute in both directions to automatically power off motor at end of run. Includes adjustable limit stops and clutch mechanism to disengage motor for easy hand-cranking of the table. Motor/clutch assembly mounts directly to the left end of the mill table. Limit switch assembly requires 6 holes to be drilled and tapped on back of mill table. Designed for use with MicroLux® Milling Machine. List \$450.00 ... Our Price **\$429.95**

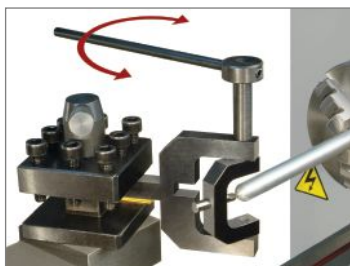


**#87923 Digital Rotary Table** can be mounted horizontally or vertically to the milling table for machining a wide variety of precision parts. One revolution of the handwheel rotates the 4" diameter table 5". Table has rotational accuracy of 10 seconds (0.0027"). Digital readout unit can be set to display in degrees and minutes or in decimal degrees. Readout resolution: 1 minute (0.0166"). Table has a MT2 hole and includes an adapter plate for mounting our #82512 3-jaw lathe chuck and #82505 4-jaw lathe chuck (sold separately). For use with MicroLux® Milling Machine. List \$450.00 ... Our Price **\$419.95**

**See more Lathe and Milling Machine Accessories on the following pages**

## Most Popular Lathe Accessories

**#84900 Deluxe Starter Tooling Set for 7 x 16 Lathe**  
Includes  
#82501 Cutters,  
#82766 Cut-Off Tool,  
#31114 Center Drills,  
#82507 Tailstock Chuck,  
#82509 Ball Bearing  
Center, #82506  
Quick Change Tool Post.  
Value \$322.70 Our Price **\$224.95**



**#84833 Radius Turning Tool** turns a radius or cuts a ball-shape up to 3/4" diameter on the end of a workpiece. Includes high speed steel tool bit. Made of blackened steel.  
List \$90.00 ... Our Price **\$59.95**

**#84834 Extra Tool Bits (2)** **\$11.95**

Use the Radius Tool to make these shapes:



**#83164 Rotating 3-jaw Live Tailstock Chuck** spins on smooth, sealed bearing to support small diameter stock while turning in the lathe. Use when there is insufficient room for follower rest. MT2 shank. Includes chuck key. 1/2" capacity. **\$74.95**



**#82505 4-Jaw Independent Chuck**  
Allows turning off-center or holding irregular parts. Body dia. = 3.150". Internal jaws clamping range = .196 to 1.378". External jaws clamping range = 1.378 to 3.150". Approx. 7/8" diameter thru-hole. **\$109.95**

**#86679 Carriage Stop** provides adjustable stop for multi-pass turning. Speeds-up machining process and helps to lock carriage in position for facing cuts. Locking lever allows quick tool-less adjustment. **\$29.95**



**#82507 Tailstock Chuck** MT2 shank. Holds drills 1/32" to 1/2" diameter. Includes key. **\$49.95**



**#82502 Face Plate** bolts to lathe headstock spindle using bolts from 3-jaw chuck. 6-1/4" diameter. **\$39.95**



**#82501 Carbide Cutters** 11-piece set with 5/16" square shanks. **\$74.95**

## Most Popular Milling Machine Accessories



For Lathes & Mills!

#84700

**ER Collet Sets for Milling Machines and Lathes** have a wide gripping range (about .040") and provide a fast, easy and accurate way of holding tooling. When used in a lathe, they hold stock more accurately and have a better grip than chucks, and thin-wall tubes can be gripped without distortion. They're quick to set up and can be used at high speed. Our ER collet sets include a precision ground shank, "snap-in" collets with compression nut, a spanner for easy tightening, and a custom molded case.

Set #	Price	Type	Shank	Drawbar Hole
<b>#84699</b>	<b>\$149.95</b>	ER25	MT3 (Lathe)	M12 x 1.75
Includes collet sizes: 3/64, 3/32, 1/8, 3/16, 7/32, 1/4, 5/16, 11/32, 3/8, 13/32, 7/16, 1/2, 17/32, 9/16, 5/8				
<b>#84700</b>	<b>\$149.95</b>	ER25	R8 (Milling Machine)	7/16-20
Includes collet sizes: 3/64, 3/32, 1/8, 3/16, 7/32, 1/4, 5/16, 11/32, 3/8, 13/32, 7/16, 1/2, 17/32, 9/16, 5/8				



#87469



#83383

**#87469 2" Self-Centering Machinist's Vise** This 360°-rotating, self-centering vise features an adjustable gib to control side-play in the movement of the jaws, a removable handle that slides off for quick and easy repositioning, and 2" wide steel jaws that open to 2-1/16" to accommodate a wide variety of projects. Best of all, your workpiece will always be precisely aligned, thanks to the vise's unique self-centering design. 1/2" thick base includes 3/8" wide x 1/2" long slots at each end for mounting, either to T-slots on machine tool tables, or to a workbench. List \$210.00 ... Our Price **\$189.95**

**#83383 Two-Way Vise for Milling Machine and Drill Press** Mounts to milling machine or drill press table. Rotates 360 degrees and inclines from 0 to 90 degrees to mill or drill at any angle in-between. 2" wide x 1" deep jaws open 1-7/8". Height at 0 incline is 3-5/8". Includes engraved markings for degrees of incline and rotation. **\$169.95**



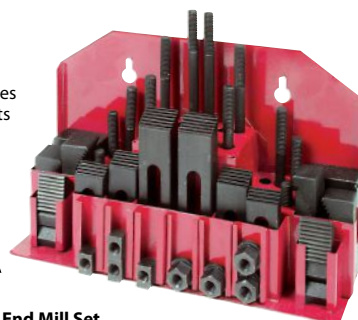
**#84644 Precision 1-2-3 Blocks** (1"x2"x3") are case hardened on all sides to 55-60 Rc and ground parallel, flat and square within 0.0003". They have 5 tapped holes (3/8-16) and 18 untapped holes so they can be bolted together in pairs to form custom sizes, angle plates, V-blocks, etc. Set includes 2 matched blocks. **\$30.95** per set

**#82578 42-piece Clamping Set** Includes 12 studs, 6 pairs of step blocks, 4 tee nuts (for 12 mm wide slots), 4 flange nuts, 4 coupling nuts and 6 hold-down bars, plus easy-access storage rack. **\$89.95\***

**\$14**  
ADDITIONAL  
FREIGHT  
ANYWHERE IN  
LOWER 48 STATES



**#82576 8-piece End Mill Set (Single End)** Includes eight center cut, 2-flute end mills in the following sizes: 1/8, 3/16, 1/4, 5/16, 3/8, 1/2, 9/16 and 5/8 inch. **\$74.95**



**#82283 3-piece Countersink Set** High-speed steel, six-flute design makes smooth 82° countersinks for flush mounting flat head screws in wood, plastic, aluminum, brass and soft steel. 3-piece set includes 3/16", 1/4" and 3/8" dia. with 3/16" and 1/4" shanks. **\$24.95**



More Lathe and Milling Machine Accessories *Check tool holder capacity and shank size before ordering. User provides mounting hardware.*



**#83371 Self-Centering 4-Jaw Chuck** with 5/8" dia. bore. Body dia. = 3.150". Internal jaws clamping range = .079 to .866". Internal jaws jamming range = .984 to 2.756". External jaws clamping range = .866 to 2.480". Includes internal and external jaws, plus key. **\$149.95**



**#82512 Self-Centering 3-Jaw Chuck** Body dia. = 3.150". Internal jaws clamping range = .079 to .866". Internal jaws jamming range = .984 to 2.756". External jaws clamping range = .866 to 2.480". Approx. 5/8" dia. thru-hole. **\$139.95**



**#83266 Larger Capacity Self-Centering 3-Jaw Chuck** with 7/8" dia. bore allows full use of hole through Microlux® Lathe spindle. Body dia. = 3.937". Internal jaws clamping range = .078 to 1.181". Internal jaws jamming range = 1.181 to 3.543". External jaws clamping range = 1.181 to 3.150". **\$179.95**



**HSS Lathe Tool Bit Sets** include 8 different pre-shaped high-speed steel square shank lathe tool bits that turn, thread, groove, bore and cut-off. Choose shank size below:

**#82757 Eight-Piece HSS MINI Tool Bit Set, 1/4" Square Shank x 2-1/2" long. \$44.95**

**#82761 Eight-Piece HSS MICRO Tool Bit Set, 1/8" Square Shank x 2-3/8" long. \$39.95**



**#82689 Rocker Tool Post** lets you adjust position of tool bit to exact center of workpiece without shimming. Compensates for worn or resharpened cutting tools. Double-sided to hold two bits. Indexes on compound rest. 5/8" capacity. **\$49.95**

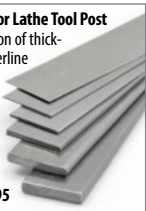


**#82506 Quick Change Tool Post** Mounting base with dovetail lock and three adjustable holders (3/8" capacity) let you preset tool bits to the perfect cutting height without shimming. Makes tool bit changes quick and easy. **\$129.95**

**#82574 Extra Tool Holders (Set of 3) \$69.95**

**#89335 6-piece Shim Set for Lathe Tool Post**

provides just the right selection of thicknesses to achieve critical centerline alignment when mounting a cutter. Use individually or combined to achieve the height required. Set includes: .004", .011", .019", .039", .059", and .078". Each shim is 3/8" wide x 1-3/4" long. **\$9.95**



**#82766 Jumbo Cut-Off Tool and Holder**

Super sharp 1/2" high blade for heavy duty cutting-off of large diameter stock. 3/8" tool holder with black oxide finish fits lathe tool post. Blade is 4-1/2" long x 3/32" wide. Note: Must be used with #82506 Quick Change Tool Post. **\$29.95**

**#82767 Extra 1/2" Cut-Off Blade \$12.95**



**#82753 Micro Cut-Off Tool Holder with Blade** includes 1/16" wide x 3/16" high x 2-1/2" long pre-sharpened HSS cut-off blade and hex wrench. 5/16" square shank. Black oxide finish. 3" long. **\$11.95**

**#82754 Extra Cut-Off Blade \$8.95**

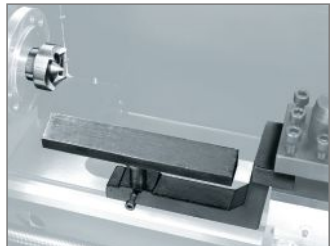


**#82503 Steady Rest** clamps onto bed to support long stock up to 1" in diameter. **\$59.95**

**#82504 Follower Rest** bolts to carriage. Follows cutting tool to prevent deflection of thin stock. **\$49.95**



**#82734 Milling Attachment for Mini Lathes** bolts to top of cross slide to hold stock while milling with a cutter mounted in the headstock. Moves 3-1/2" vertically. Rotates on the cross slide pivot. Tilts up to 50° left or right of vertical. Heavy duty 2-5/8" wide vise holds workpieces up to 2" high. 16 tpi lead screw. Includes adjustable gibs and lock lever. Cast iron and steel with molded handwheel. **\$299.95\***



**#82570 Tool Rest & Spur Driver for Lathe** Tool rest mounts to tool post for use with wood turning tools. Includes MT3 spur driver for headstock. **\$64.95**

**3-Piece Precision Milling Accessory Set**



**A. – C. Rotary Table, Dividing Plate & Tailstock Set**

Buy these 3 precision milling tools together at a money-saving combo price. Set includes:

**A. Rotary Table** 4" diameter. One revolution of the handwheel rotates the table 5°. Allows you to create an incredible variety of precision parts. Table has MT2 hole. Includes adapter plate to mount the #82512 3-Jaw Chuck and #82505 4-Jaw Chuck (available separately). T-slot size = 5/16". See website for full specifications.

**B. Dividing Plate** Replaces the handwheel on the rotary table. Accurately rotates stock a set number of degrees. Examples: for milling teeth on a gear, flats on a nut, or drilling equally-spaced holes.

**C. Tailstock** Supports the end of a shaft when the rotary table is placed vertically on the machine table.

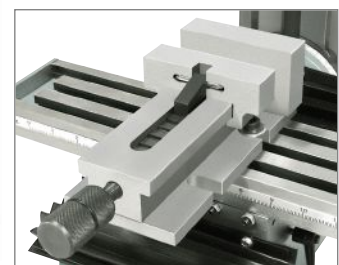
**#82795 Rotary Table, Dividing Plate & Tailstock Set. Value \$521.85 Our Price \$479.95\***

Each item is available separately. See #82792, #82793 and #82794 at micromark.com



**#89327 Bell Punch Center Finder**

quickly and easily locates the center of any solid, round rod from 3/8" to 1-1/2" in diameter and in any material, including wood, plastic and soft metals typically used for production on lathes, mills and drill presses. To use, insert the rod into the "bell" until the rod is in full 360° contact with the interior wall of the bell. Tap the punch shaft with a hammer to make a perfectly centered mark. A quality tool, made of machined steel. **\$25.95**



**#82577 Quick-Lock Milling Vise** bolts directly to top of milling table. Jaws are 4" wide x 7/8" deep and open 3-1/8". 2-5/8" high. Made of machined steel. **\$109.95**

**Digital Readout Kits Provide Ultimate Accuracy for Machining, Woodworking and More**

**Digital Readout Kits** for metalworking and woodworking machines include a remote digital display that can be positioned up to 6 feet away for easy viewing. Readings are displayed in .0005", 1/128", and .01 mm increments. Resettable to zero at any position. Includes USB data port, AC adapter power port, mounting hardware and batteries.

**Aluminum Beam #86713 6" capacity \$39.95 #86714 12" capacity \$44.95 #86715 24" capacity \$54.95**

**Heavy Duty, High-Accuracy Stainless Steel Beam #86711 6" capacity \$64.95**

**Accessories for all Readout Kits #86717 USB Interface and Cable \$99.95 #86718 AC Adapter \$14.95**



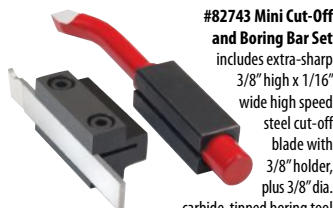
## See Additional Lathe and Milling Accessories Online!



**#86678 Knurling Tool** produces a fine (0.8 mm pitch) diamond-pattern knurl on stock up to 2" (50 mm) in diameter. 13 mm mounting bar fits the stock tool post of MicroLux® Mini Lathe and many other machines. Tool is adjustable for various diameter workpieces and is designed to absorb the stress of the knurling operation without putting additional strain on your lathe. **\$64.95**



**#82771 Diamond Pattern Knurling Tool** Raises a series of crossed, angled ridges in a diamond pattern on workpieces and shafts, making decorative finishes and/or slip-proof grips. Pivoting head assures equal pressure of both wheels on workpiece. Dual 3/4" dia. x 5/16" wide wheels; 1/2" square x 4" long black oxide steel shank. **\$19.95**



**#82743 Mini Cut-Off and Boring Bar Set** includes extra-sharp 3/8" high x 1/16" wide high speed steel cut-off blade with 3/8" holder, plus 3/8" dia. carbide-tipped boring tool bit (makes cuts inside a cylinder) and 1/2" square holder. Note: Mini Cut-Off holder fits #82689 Rocker Tool Post (sold separately) and standard tool post provided with our #84631 7x16 Lathe. Not for use with #82506 Quick Change Tool Post. **\$49.95**



**#82768 3-piece Fly Cutter Set** Used in the milling machine to cut a large flat surface on a piece of stock. Includes 3 black oxide steel holders: 3/4", 1-1/8" and 1-3/8" diameter, 3 ready-to-sharpen tool blanks, and wood storage rack. 1/2" shanks. **\$29.95**  
**#82769 Set of 3 Fly Cutter Tool Blanks** (one for each holder) **\$9.95**

**#14255 Precision Ground V Blocks**

V Blocks are the best way to hold round tubing or bar stock securely for milling, cutting, grinding, drilling and filing. Fine quality hardened tool steel is milled and polished on all 6 sides, making a perfectly matched set with all sides square to each other. Holds stock up to 1" dia. Blocks are approximately 1-1/4" square x 1-5/8" long. Set includes two V Blocks and two clamps. **\$49.95**

## Keep Your Cool While You Work

**#83338 MicroFlow™ Coolant System** Compressor-less system directs a very fine stream of lubricating coolant only where the cutter meets the workpiece. Includes 4 liter heavy-duty tank with self-contained low-voltage pump and on/off switch, magnetic base with adjustable nozzle holder, 3 nozzles to adjust flow rate and 32' of tubing. Use with oil-less synthetic coolants only (see below). **\$59.95**

**#83340 MicroFlow™ Coolant & Lubricant** 16 ounce concentrate makes up to 4 gallons when mixed with water. **\$9.95**



**#82284 Center Drill Set** Drills properly contoured holes so workpiece can be mounted between centers. Four-piece set includes nos. 1, 2, 3 and 4. **\$19.95**



**#82883 Grinder Attachment for Mini Lathe** bolts to top of cross slide of mini lathes to grind stock smooth while turning in the headstock. 1/3 hp motor turns grinding wheels 6,000 rpm; plugs into 120VAC wall outlet. Includes two 3-1/8" dia. x 3/8" wide grinding wheels. **\$209.95\***  
**Replacement Grinding Wheels – \$24.95 ea.**

**#82961 Wheel** for workpieces (pink, 60/80 grit)

**#82962 Wheel** for tool bits (green, 60/80 grit)



**#84683 Indexable Tool Holder Set** Five 6 mm (.235") square x 2-1/2" long blackened steel shanks fit MicroLux® and other mini lathe tool holders. Triangular carbide inserts with 1/64" radius cutting tips index to 3 positions to restore the cutting edge when needed. Grade PC300 TiN-TiC-TiN coated for cutting at higher speeds and with greater lubricity. Includes 5 cutting angles: 2 left, 2 right, and 1 center, plus T8 wrench for retaining screws. **\$59.95**

**#84684 5-piece Replacement Insert Set** **\$39.95**



## High-Precision Miniature Digital Level Measures Exact Angles of Machine Tool Set Ups

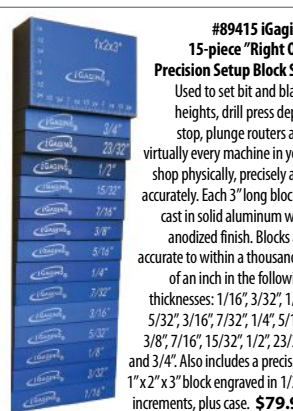
Carpenter levels are just too large and inaccurate for machine set-up. So, we encased our high precision digital level in a compact housing that's only 2" square by 1" deep. At the press of a button, the large LCD reads the relative angle between machine surfaces or the percent grade from sea level. Magnets embedded in the housing attach it securely to cast-iron/steel surfaces for hands-free measurement. Range: 0 to 45°/100%. Readability: 0.05°/0.01%. Hold button remembers last reading. The housing is made from durable CNC-machined, satin-finish alloy. Includes 9V battery and auto shut-off battery saver.

**#84519 Digital Level.** List \$80.00 ... Our Price **\$49.95**

**#90469 iGaging 8-piece "Right On" Precision Setup Block Set**

Used to set bit and blade heights, drill press depth stop, plunge routers and virtually every machine in your shop physically, precisely and accurately. Each 3" long block is cast in solid aluminum with anodized finish. Blocks are accurate to within a thousandth of an inch in the following thicknesses: 1/16", 3/32", 1/8", 3/16", 1/4", 3/8", 1/2", 7/8". Includes foam-lined case. **\$39.95**

See more iGaging Precision Measuring Products throughout the catalog and at [www.micromark.com](http://www.micromark.com)

**#89415 iGaging 15-piece "Right On" Precision Setup Block Set**

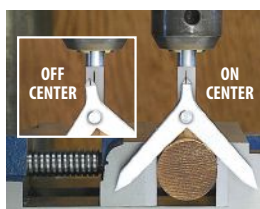
Used to set bit and blade heights, drill press depth stop, plunge routers and virtually every machine in your shop physically, precisely and accurately. Each 3" long block is cast in solid aluminum with anodized finish. Blocks are accurate to within a thousandth of an inch in the following thicknesses: 1/16", 3/32", 1/8", 5/32", 3/16", 7/32", 1/4", 5/16", 3/8", 7/16", 15/32", 1/2", 23/32" and 3/4". Also includes a precision 1"x2"x3" block engraved in 1/32" increments, plus case. **\$79.95**

**#89414 iGaging Digital Saw Gauge**

This digital alignment tool will allow you to test your table saw and fence alignment, saw, router and drill press arbor run out, set jointer knives, saw blade run out and more.

The Digi Align provides accurate measurements on any steel (cast iron) machine with a standard miter slot (3/8" x 3/4"). The magnetic miter bar holds the tool tight against the edge of the miter slot, while still allowing for sliding movement. The easy to read, 3-way digital indicator gives you readings in metric, inch or fractional increments. It has a 1" range, will read to within 0.0005" and features both an ABS Hold function and a data output for your computer. Battery included. **\$64.95**

## Indicators Locate Drill and Mill Chucks Exactly On Center



Never drill off-center holes again! Our Center Finders quickly and easily position drill press and mill chucks directly above the exact center of a round workpiece. Indicator amplifies the slightest misalignment so you can adjust before drilling. **Choose size below.**

**#89326 Mini Center Finder**, 1/4" dia. x 7/8" long shank. **\$12.95 Fits MicroLux® Drill Presses!**

**#82281 Center Finder**, 3/8" dia. x 1-1/2" long shank. List \$20.00 ... Our Price **\$14.95**

**#83291 Machine Stand**

Supports machines weighing up to 400 lbs. at a comfortable working height of 35". Adjustable feet provide stability on uneven floors. 14" x 31" composite wood top with honey-color veneer includes pull out shelf for holding tools while you work. Frame and legs have rust-resistant black powder coat finish. No lightweight... this stand weighs a hefty 29 lbs. Shipped unassembled. **\$129.95\***



**\$33 ADDITIONAL FREIGHT ANYWHERE IN LOWER 48 STATES**

Machines not included. Stand ships unassembled.





## Variable Speed Mini Band Saw Cuts Intricate Shapes in Wood, Metal, Plastic, Stone, Bone, Tile, Glass and More!

Band saws designed for cutting wood run too fast to cut metal, and plastic comes away as a gooey mess. The electronic speed control on our professional quality band saw lets you dial-in the exact speed you need to cut these materials. Make designs you never dreamed possible... cutting metal is so smooth and fast you'll complete your work in just 1/10th the time of other methods. You can even stack workpieces to make exact duplicates in one pass. And, with the optional diamond blade and cooling system sold below, you can easily cut intricate designs in glass, tile and other hard materials. Overall size (band saw only): 15" wide x 20" high x 11" deep; weighs 13 lbs. Includes one .180" wide x .031" kerf x 14 tpi blade, adjustable ball bearing blade guide and instructions. Made in Japan. **One great saw, so many options!**



**A. #82203 MicroLux® Variable Speed Mini Band Saw**  
List \$430.00  
Our Price **\$349.95**

### Band Saw Features:

- Sturdy cast-aluminum frame.
- Twin 6-3/8" dia. drive wheels mounted in ball-bearings.
- 7-3/4" x 7-3/4" aluminum table tilts between 0° to 45° for bevel cuts.
- 6" throat depth, 3" throat height.
- 425 to 650 ft/min variable blade speed.
- Cutting capacities: softwood 3", hardwood 2", steel 3/8", aluminum 3/4", brass/copper 5/8", plastic 1-1/4".
- High torque DC motor and moisture-sealed electronics; plugs into standard 120VAC outlet.
- Adjustable miter gauge.

C &amp; K

### Optional Band Saw Accessories and Blades

**B. #84517 Rip Fence for Band Saw** Attaches to table with two thumb screws. List \$35.00... Our Price **\$24.95**

**C. #82211 Cooling System for Band Saw**

Required when cutting stone, tile, ceramics, gems, minerals, glass and other hard materials. Reservoir and adjustable valve dispense water directly on the cut to lubricate and cool the blade, preventing overheating and premature blade failure. Includes reservoir, valve, tubing, gasket, 12" x 16" collection tray and hardware. **\$69.95**



**D. #82204 Blade .138" wide; .031" kerf; 14 tpi \$24.95**

**E. #82205 Blade .138" wide; .025" kerf; 24 tpi \$24.95**

**F. #82206 Blade .180" wide; .031" kerf; 14 tpi \$24.95**

**G. #82207 Blade .180" wide; .025" kerf; 24 tpi \$24.95**

**H. #82208 Blade .250" wide; .031" kerf; 24 tpi List \$45.00... Our Price \$34.95**

**J. #82209 Diamond Blade for cutting stone, tile, glass, etc. Even cuts bone with amazing precision! Must be used with cooling system sold above (.125" wide x .025" kerf) \$129.95**

**#88507 Bi-Metal Blade (steel alloy band with high speed steel teeth) .203" wide; .032" kerf; 10 to 14 varying tpi for cutting steel, non-ferrous metals and stainless steel. \$39.95**

**#88516 Narrow Blade is only 1.3 mm wide with a .44 mm kerf; 10 tpi. Turns your Band Saw into a scroll saw for the tightest, most intricate cuts in wood, plastics and non-ferrous metals. \$34.95**

.138" wide blades cut curves down to 3/8" radius; .180" wide blades down to 3/4" radius; .250" wide blades down to 1" radius. Use wide blades for straight cuts. Blade length: 41-7/8". All toothed blades will cut steel, brass, copper, plastic and wood. Choose blades based on material hardness, cutting speed and finish.

### K. All-in-One Water-Cooled Band Saw System – Includes One Each of...

<b>#82203</b> Variable Speed Band Saw	<b>#82211</b> Cooling System	<b>#82209</b> Diamond Blade	<b>#83340</b> MicroFlow Coolant
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**#87343 MicroLux® Water-Cooled Band Saw System. List \$525.00 Super Buy \$499.95**

## Our Variable Speed Mini Band Saw Super Value Package Offers Maximum Versatility Right Out of the Box for Beginners and Advanced Users Alike



### #91011 MicroLux® Variable Speed Mini Band Saw Super Value Package

This Exclusive package provides everything you need to get started, or to take your skills to the next level.

#### Super Value Package includes:

**#82203 MicroLux® Variable Speed Mini Band Saw**

**#84517 Rip Fence**

**#87605 Band Saw**

**(The Missing Shop Manual)**

This handy pocket-sized guide offers all the tips, tricks, techniques and ideas woodworkers and furniture makers need to get the most out of this indispensable tool.

**Three Optional Band Saw Blades:**

**#82205 - 0.138" wide, 24 tpi**

**#82208 - 0.250" wide, 24 tpi**

**#88507 - Bi-metal Blade**

Value \$488.70

**Super Buy \$399.95**



## There's No Other Clean Like an Ultrasonic Clean



**#90493 Isonic Digital Ultrasonic Cleaner** With a detachable power cord, a built-in cooling fan, digital timer, and touch-sensing controls, "the world's smallest commercial ultrasonic cleaner" maintains its portability and power, operating at 110V/55W and 40,000Hz. The elongated tank capacity is 0.8 L (0.85 qt.) and measures 7.1" x 3.4" x 2.3". An integrated beaker holder with a stainless-steel beaker provides a great way to clean smaller items, and also allows cleaning of multiple items simultaneously by using the main tank and the beaker at the same time, even with different solutions. **\$149.95**

## A New "Twist" for this Unique Plier

Primarily used to quickly and easily twist any type of wire up to 18 gauge for aviation and automotive applications, this plier is also excellent for model building and jewelry design. Use it to transform ordinary wire and slim sheet stock into many shapes and different sizes of eye pins, bezel rings and more. Approx. 9" long, with diagonal serrated tips and internal cutter, plus automatic spring return.

Superior quality, made in Taiwan.

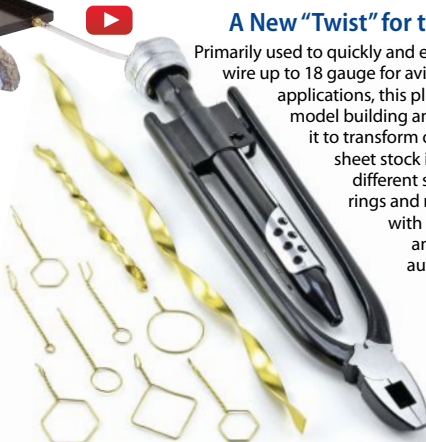
**#83409 Wire**

**Twisting Plier**

List \$50.00

Our Price

**\$34.95**





### Jeweler's Quality Micro Pliers at an Affordable Price...

**Includes FREE custom wooden stand!**

You'll be impressed with the incredible value offered by these high quality micro pliers. Made for Micro-Mark in stainless steel, with finely-finished, precision-formed micro-size tips and no-slip rubber grips for superb jewelry, electronic, wire-forming, and model-building parts fabrication and assembly. Set includes the following 7 pliers (each approx. 5" long): extra fine needle nose, fine needle nose, round looping tips, flat tips, split ring tip, diagonal cutter\*, and end nipper\*, plus a nicely finished wooden stand to keep them handy and damage-free.  
\*For use on soft wire only.

**#86487 Jeweler's Micro Plier Set**  
Value \$90.00 ... Our Price **\$69.95**



**#85149 Acrylic Plier Rack**, 8" long **\$14.95**  
2 or more **\$11.95 ea.**

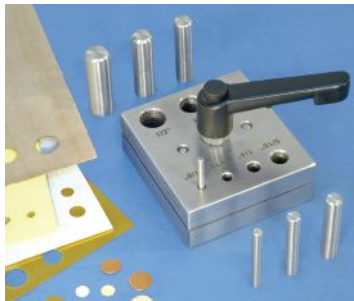
### #86152 Loop Closing Plier

Semi-circular indentations in the jaws of this specialized wire working tool make neatly closed loops without distorting their shape. Quality construction includes



rubberized grips and carefully-fitted box joint construction.  
5-1/4" long. **\$19.95**

### High Precision Punch Produces Accurate Disks and Holes in Metal, Plastic and Cardstock



Heavy-duty, precision ground die plates are separated by springs that hold them apart while you load the stock to be punched (soft materials up to 1/8" thick). Tightening the handle squeezes the material between the die plates so that the precision ground punch can operate without tear-out or distortion of the base material. To use, just tap with hammer or apply force with a press. Includes steel punches in the following diameters: 1/8, 3/16, 1/4, 5/16, 3/8, 7/16 and 1/2 inch.

**#85146 Precision Disk Punch Set**  
List \$120.00 ... Our Price **\$99.95**

**NOW WITH EXPANDED  
TOOLING SET!**



### Bend Metal Wire and Strip into Complex Shapes with Ease

Our Universal Bender forms wire and strip into smooth curves, in multiple planes, and into complex shapes, including S-curves, squares and coils. Use it on wire up to 5/16" dia. and strip up to 1" wide. Clamps into bench-mounted vise, or can be mounted with 5/16" bolts (not included). **EXPANDED TOOLING SET\*** includes 3/16", 1/4", 1/2", 1", 1-1/4", 1-1/2" and 1-3/4" dia. circle pins, 13/32" and 5/8"-tall tight bend blocks, 12" long lever with rubberized grip, follower tool, and stop pin for making duplicate parts. Overall size: 9" long x 3-1/2" high x 2-1/2" wide (not including lever). Made of rust-protected steel.

**#82819 Universal Bender** **\$114.95** \***#82819A 4-piece Tooling Set** ONLY available separately **\$17.95**



### Lightweight Miniature Hammers for Delicate Work

**L.** Mini modelers' hammer with 2.5 oz steel head and steel handle with aluminum grip. Six screw-on tips include brass flat, steel tapered, steel ball, steel dome, steel flat and plastic flat. 7-1/2" long overall.

**#83380 Hobby Hammer with 6 Tips** **\$14.95**

**M.** An inexpensive tool that will get the job done. Use for driving home small pins, nails and model railroad spikes. 1-1/2 oz steel head is 2-1/2" long. 9-1/2" long overall. Hardwood handle.

**#22102 Hobby Hammer** **\$11.95**

### Ball Peen Hammers

Use these miniature ball peen hammers for shaping metal or riveting. Excellent for use with one of our anvils.

**N. #81367** 1 oz. head **\$9.95**

**P. #22119** 2 oz. head **\$11.95**

**Q. #84254** 4 oz. head **\$19.95**

### Jeweler's Chasing Hammer Flattens and Shapes Metal

**R.** This well balanced, nicely made jeweler's hammer is ideal for use with one of our anvils when you need to shape or flatten metal. Polished tool steel head and hardwood handle. Flat end of head is 1" dia. Handle is 9-1/2" long. 5 oz head.

**#80811 Chasing Hammer**  
List \$20.00 ... Our Price **\$14.95**

### Toolmaker's Mallet Prevents Damage to Metal Parts

**S.** The nylon and soft brass faces of our premium quality 2 oz toolmaker's mallet prevent the surface scars and dents that can result from striking metal parts. Overall length: 9-1/2".

**#81523 Toolmaker's Mallet**, 2 oz  
List \$30.00 ... Our Price **\$24.95**

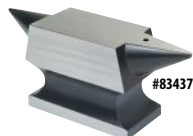
### Anvils Make Miniature Metal Work Easier



**#16104**



**#16103**



**#83437**



**#85129**

Anvils are extremely helpful when riveting, forming, shaping, bending, embossing, drilling or flattening metal...and whenever you need a hard working surface. The hexagon anvil can also be used for removing small friction-fit pinions, gears and wheels from shafts and axles.

**#16104 Jeweler's Anvil** Steel with chrome plated surface. 3/4" wide x 4-1/2" long x 3" high. **\$24.95**

**#16103 Hexagon Anvil** Case hardened tool-steel ground flat and smooth. 15 holes graduated from 1/32" to 1/4" and 5 milled slots. 1-5/8" across flats. 3/4" thick. **\$24.95**

**#83437 Precision-Ground Anvil** Top and side surfaces ground flat and square. Use standing upright or laying on side. Main body approx. 2-1/2" long x 1-1/4" wide x 1-3/4" high. 2 conical ends are each 1-1/4" long. **\$25.95**

**#85129 Small Machinist's Anvil** Cast iron with 1-3/4" x 3-1/8" working surface. 5-1/2" long overall x 2-5/8" high. Horn tapers to rounded tip. (Color may vary.) **\$17.95**

**These anvils are a perfect match with the miniature metalworking hammers above**

### Surgeon's Scissors Make Smooth, Clean Cuts in Delicate Materials

Surgeon's "Castroviejo" Scissors feature ultra-sharp, precision-ground jaws with anti-slip microscopic serrations and spring-loaded knurled handles which provide the control you need to make perfectly smooth cuts every time. Beautifully made of stainless steel. Jaws are 1/2" long; 4-1/2" long overall. Available in straight and curved jaws.

**#84440 Castroviejo Straight Scissor** **\$17.95**

**#84441 Castroviejo Curved Scissor** **\$17.95**

**#86417 Set of both Castroviejo Scissors.** Value \$35.90 ... Our Price **\$24.95**







### Create Your Own Functional Mini Rivets and Eyelets for a Wide Variety of Projects

This riveting tool kit provides the main components needed to easily create aesthetically appealing, professional, uniform rivets in metal materials for hard, fast (cold) connections, and to create tubing eyelets to allow pivoting movement of layered sheeting of metals when designing jewelry and other projects. Set includes 2 oz. crosspeen/flattening hammer, adjustable-depth hole puncher for 12, 14, 16, and 18 gauge wires (hex wrench included), and hardened steel riveting block. The riveting block includes a total of thirteen precision-formed dimples, rings and holes specifically designed to create perfect mini rivets and eyelets. With a little bit of practice, you'll be creating all kinds of beautiful and functional pieces. **#90462 3-Piece Riveting Tool Kit \$59.95**



**#90963 12-piece Pro File Set** includes two each of the six most popular shapes: triangle, square, flat, round, half-round and warding (tapered). Each file has a fine double-cut pattern and has been heat treated to a Rockwell Hardness of 60 for long life. Rubberized handles make the files easy to hold and guide. Each file is 4" long with 2"-long handles. File pattern covers approximately 75% of the file length. This well-made set can be used on metals, plastics and more. **\$17.95**



#87913

### Silicone Work Pad

Ingenious, flexible, semi-soft silicone pad provides both impact-deadening and roll-resistance, keeping miniature hardware, model parts and other tiny components from bouncing into the black hole of oblivion while handling. The pad is also naturally resistant to paint and glue, making it a great surface for scale model assembly and detailing as well. 13-1/2" x 9-1/4" x 3/32" thick. **\$24.95**



### Use a Jeweler's Saw for the Finest Cuts in Any Material

Model makers, miniaturists and jewelers know how indispensable this well-balanced saw frame can be when it comes to intricate cutting. Blades will cut soft metals, wood, fiberglass, styrofoam and plastic. Adjustable frame permits blades to be drawn taut, and adjusts for blades 2-1/2" to 5-1/2" long... even accommodates broken blades. Nicely made with a steel bow and hardwood handle. Cuts up to 2-1/2" deep. Use with our jeweler's saw blades for the finest cuts you've ever seen. **Blades are not included. Order below.** Shown with optional V Block Extension. Saw frame may vary.

**#22105 Jeweler's Saw \$19.95**



Need a saw?

**#22105 Jeweler's Saw** (see details on left), is ideal for use with #87915 Bench Pin. **\$19.95**

### #87915 Professional Bench Pin for Model and Jewelry Makers

Provides solid support for hand-sawing and filing soft metals, wood and more. Mounts quickly and easily with custom C-clamp (included) to work tables from 1/2" to 2-1/4" thick; dismounts just as simply. Specially designed for facilitating interior saw cuts, Bench Pin includes 3 round cut-outs and 2 oval cut-outs (one left and one right), plus an elongated V for maximum versatility. Bench Pin is approx. 3-7/8" wide x 6" long x 3/8" thick. **\$22.95**



**#20127 V Block Bench Extension** gives you extra control, support and space while using your jeweler's saw. Also helpful when filing and drilling. Included clamp fits any table up to 2" thick. 2-1/2" x 7". **\$9.95**

### 24-piece Jeweler's Saw Blade Sets - \$9.95/set

**#22107** Includes 12 each #4 (38 tpi) and #2 (43 tpi)

**#22108** Includes 12 each #1 (51 tpi) and #2/0 (56 tpi)

**#22109** Includes 12 each #4/0 (66 tpi) and #6/0 (76 tpi)



**#22105 Saw**  
available  
separately

### Special Plier Holds Tubing, Strips and Rods while Sawing

If you use a jeweler's saw to cut tubing, this is a must-have tool! V-grooved jaws hold tubing, rod and strip securely and safely. Narrow slot through the center of the jaws guides the saw blade, so you get a clean, straight cut every time! Works with tubes, strips and rods from 3/32" to 3/8". Includes comfortable, cushioned handles and spring-loaded box joint construction for years of use. 7" long.

**#85166 Tube Cutting Plier \$29.95**

**#22105 Jeweler's Saw \$19.95**



#60661

### Mini Hack Saw

Hack saws are not just for metal...use for plastic, wood, dowels and other hardwoods, too. Includes 6", 24 tpi blade. List \$14.00... Our Price **\$9.95**

### #60684 Mini Hack Saw Blades

6", 24 tpi, 1/32" kerf.

Package of 6.

**\$6.95**

**#80924 Toolmaker's Bench Block** A nicely made tool machined from a solid block of tool steel. The smooth surface supports your work and the nine holes (from 1/8" to 5/8") allow clearance for cutting tools and punches. Use for drilling, tapping, reaming, pin punching and more. Has a V groove across the top surface for holding round and odd shaped stock. 3" dia. x 1-3/8" high. List \$45.00... Our Price **\$29.95**



#85779

### Combo Bench Block

Interchangeable steel and nylon blocks fit into a non-slip rubber base that absorbs shock...lets you hammer at your work bench without creating excessive noise and vibration. Steel and nylon blocks are 5/8" x 3" dia. Rubber base is 1" thick x 4" dia. List \$40.00... Our Price **\$29.95**



### #89668 Tight Mesh Heavy Duty Brass Parts Cleaning Basket

At 2" (50 mm) in diameter, our Tight Mesh Heavy Duty Brass Parts Cleaning Basket is twice the size of others on the market. Super-tight 15 thousandths-of-an-inch mesh screen keeps loose parts safe and secure within its roomy 1.5" interior. Designed for use in ultrasonic cleaners, parts washers and solvent baths, this basket holds all components, jewelry pieces and more without letting them slip through the screen. The two halves of the basket simply screw together, making it easy to open and close and reliable to use. Two deeply knurled rings around the basket provide a no-slip grip, even when wet with cleaning solution. **\$18.95**



**#89250 Pocket-Size Micro Plier Set with Case** At less than half the size of ordinary pliers, these Micro Pliers fit into tight spaces and confined areas where other tools simply can't! You'll be very pleasantly surprised at just how much these little tools can do! Set includes chain nose, flat nose, round nose and diagonal soft-wire cutter in a velvet-lined, zippered leather case. Each plier is just over 3" in length with leaf-spring return. **\$24.95**



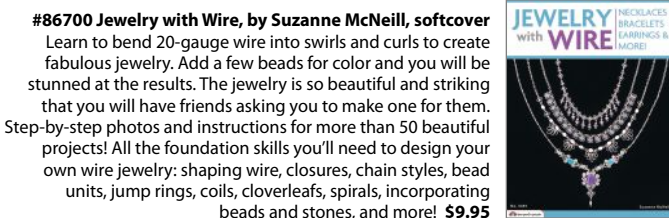
**#87914 1,000-Piece Metric Phillips Micro Screw Set**

You asked for them, and now you've got them! Approximately 60 each of 18 micro sizes. Used by jewelers, modelers, machinists, scratch-builders, repair technicians, and countless other makers. These nickel-plated-steel screws have 1.2 mm thread diameter with 0.25 mm thread pitch. Set includes a selection screws with 1.6 mm diameter heads in 1.6, 2.0, 2.5, 3.0, 3.5, 4.0, 4.5, 5.0 and 5.5 mm lengths and screws with 2 mm diameter heads in 2.0, 2.5, 3.0, 3.5, 4.0, 5.0, 5.5 and 6.0 mm lengths, all neatly packed in a plastic storage box. **\$24.95**



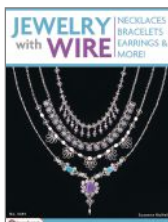
**#89122 Heavy Duty Pry Knife**

Designed for opening fine watch cases without damaging or scratching, this handy tool is also great for quickly and safely opening battery boxes, model locomotives, key fobs and more. It might look like a knife, but the beveled steel blade is not at all sharp. Instead, its finely tapered edge is designed to easily slide between mating parts to do its job. 5-1/2" long; 7/8" diameter. Includes 2 blades and hex wrench. **\$17.95**

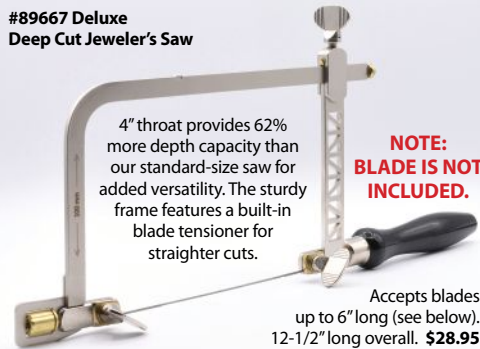


**#86700 Jewelry with Wire, by Suzanne McNeill, softcover**

Learn to bend 20-gauge wire into swirls and curls to create fabulous jewelry. Add a few beads for color and you will be stunned at the results. The jewelry is so beautiful and striking that you will have friends asking you to make one for them. Step-by-step photos and instructions for more than 50 beautiful projects! All the foundation skills you'll need to design your own wire jewelry: shaping wire, closures, chain styles, bead units, jump rings, coils, cloverleaves, spirals, incorporating beads and stones, and more! **\$9.95**



**#89667 Deluxe Deep Cut Jeweler's Saw**



4" throat provides 62% more depth capacity than our standard-size saw for added versatility. The sturdy frame features a built-in blade tensioner for straighter cuts.

**NOTE: BLADE IS NOT INCLUDED.**

Accepts blades up to 6" long (see below). 12-1/2" long overall. **\$28.95**



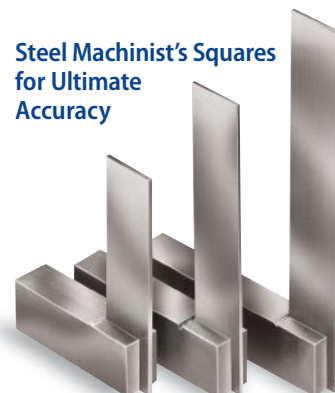
**NOTE: BLADE IS NOT INCLUDED.**

**#89243 Pocket-Size Bow Saw** Measuring just 4-1/4" long, this mini saw not only provides delicate control, go-anywhere versatility and precision when sawing a wide range of materials, its clever design allows you to work with virtually any jeweler's saw blade...even the still-good fragments of previously useless broken blades! Well-made of steel, brass and lacquered wood, this handy saw includes 2 knurled nuts spaced only 1-3/8" apart to tightly secure the blade. **\$14.95**

**24-piece Jeweler's Saw Blade Sets - \$9.95/set**

**#22107** 12 each #4 (38 tpi) and #2 (43 tpi) **#22108** 12 each #1 (51 tpi) and #2/0 (56 tpi) **#22109** 12 each #4/0 (66 tpi) and #6/0 (76 tpi)

**Steel Machinist's Squares for Ultimate Accuracy**

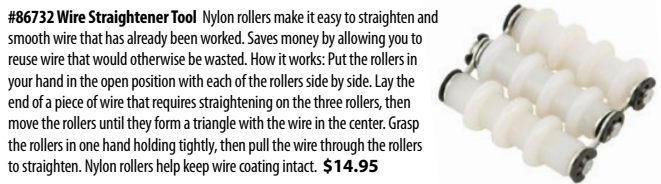


You've never seen or used anything better for marking a perfect 90° angle. Use for marking metal, wood, plastic, etc. Hard-to-find small sizes are a must for miniaturists and modelers. Also excellent for setting up small table saws, disk/belt sanders and other tools. Made of fine quality, fully ground carbon steel. *Note: Sizes are approximate.*

**#10117** 3" Blade, 1-7/8" Beam **\$14.95**  
**#10118** 4" Blade, 2-1/2" Beam **\$19.95**  
**#10119** 5" Blade, 3" Beam **\$22.95**  
**#83226** Set of 3. List \$57.85 Price **\$39.95**



**#86729 Cup Burr Tool** Simple and economical, it works faster than a file and makes a neat, smooth, rounded end on wire up to 18 gauge. 5" long overall with a 1.8 mm (1/16") diameter cup. **\$12.95**

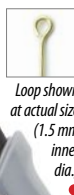


**#86732 Wire Straightener Tool** Nylon rollers make it easy to straighten and smooth wire that has already been worked. Saves money by allowing you to reuse wire that would otherwise be wasted. How it works: Put the rollers in your hand in the open position with each of the rollers side by side. Lay the end of a piece of wire that requires straightening on the three rollers, then move the rollers until they form a triangle with the wire in the center. Grasp the rollers in one hand holding tightly, then pull the wire through the rollers to straighten. Nylon rollers help keep wire coating intact. **\$14.95**



**#86733 One-Step Looper**

With this fantastic tool, you can create and trim eye pins all in one motion. Works with dead-soft or half-hard precious metal wire, craft wire, copper or brass core wire between 26 and 18 gauge. This tool is fast and easy to use, and makes perfect 1.5 mm diameter loops every time with just a squeeze of the handle. For clean and consistent eye pin loops, this tool is the best! Not for use with hard wire. **\$34.95**



Loop shown at actual size (1.5 mm inner dia.)

**"Parrot Peak" Gem-Setting Pliers**

These three specialized pliers are essential for properly setting gems and adjusting the prongs of fine jewelry pieces. Commonly called Parrot Peak pliers, each has been designed to accomplish specific operations.



**#90143 Parrot Peak Prong Opening Plier**  
**\$14.95**

Grooved, specially formed tip gently bends prongs outward to remove gems.



**#90142 Parrot Peak Stone Setting Plier**  
**\$14.95**

Offset, grooved jaw holds prongs securely, yet gently while tightening.



**#90149 Jeweler's Vectoring Plier**  
**\$14.95**

Flat, tapered jaws draw prongs toward each other laterally around the gem ensuring a perfect fit.



**#89247 Wire Bending and Wrapping Jig** packs a grid of 193 holes into just 5-3/4" x 1-1/4" x 1/2" of space, allowing you to form thin-gauge brass, copper, aluminum and precious metal wire into shapes from smooth and simple to intricate and complex. And, creating duplicates of even the most involved design is a breeze! Includes jig, 20 each 3/32" and 1/8" dia. steel pins and a selection of plastic wrapping tubes. **\$34.95**

Jig must be secured in a vise or bench-mounted for use.



## Step Up to Our Very Best Wire Cutters

These slim precision tools are right at home working in confined spaces; plus, their carbide cutting inserts leave a smooth, burr-free edge on both hard and soft wire. Made of high carbon 420 Japanese surgical stainless steel with gold electro-polished handle ends, these powerful cutters will even slice through music wire up to .026" with ease. Set includes a 45° angled flush cutter that cleanly snips wire right-to-the-tip, and a straight-jaw cutter with a perfectly matched pair of "L" shaped carbide edges that act as a male / female die set, leaving a flat, distortion-free end. These beautifully made cutters are ideal for jewelry designers and other serious makers. Each plier is 5" long.



**#89944 Slim Line 2-piece Hard Wire and Soft Wire Cutter Set**  
List \$175.00 ... Our Price **\$69.95**

## Slim Line Titanium Coated Precision Metal Forming Plier Set

These beautifully-crafted wire forming pliers are made of surgical-quality Japanese stainless steel and titanium plated for precision and durability. Set includes a Micro 3-Step Looping Plier with 3/64", 1/16" and 5/64" looping pin and matching concave receiver on the opposite side, and a 4-Step Bending Plier with 1/8", 11/64", 7/32" and 1/4" steps and flat-facing internal jaws with one slightly serrated side for gripping and one non-serrated side. These high-quality tools are excellent for use in jewelry design and other fine wire work. Each plier is 5" long.



**#89945 Slim Line 2-piece Titanium Coated Precision Metal Forming Plier Set**  
List \$65.00 ... Our Price **\$49.95**

**Our high-quality, non-marring, Nylon-Head Metal Forming Pliers** are perfect for forming and contouring brass, copper and precious metal wire and metal strip stock without marring the material. Made of stainless steel, these pliers feature box-joint construction, leaf spring return and medium density foam handles which provide superior comfort and ergonomics compared to pliers with PVC-coated handles. Also, the nylon heads can be customized to your own design, if desired, by carving and shaping the existing head shape to your own specifications. Each plier includes an additional head for this purpose, or, to use as a replacement if the original head becomes damaged. Pliers are 5-3/4" long.



**#89796 Large-Radius Nylon-Head Metal Forming Plier** Perfect for creating wide-diameter rings, earrings, cuff bracelets, and more. Head is 7/8" x 3/8"; forms 3" to 4" circles. **\$12.95**



**#89797 Medium-Radius Nylon-Head Metal Forming Plier** Makes 5/8" to 1" diameter circles. Head is 3/4" x 3/8". **\$12.95**



**#89798 Medium U-Shape Nylon-Head Metal Forming Plier** makes smooth curves up to 3/8". Head is 13/16" x 3/8"; inner "U" shape has a 13/32" wide male head centered in the female side of the head. **\$12.95**



**#89799 V-Shape Nylon-Head Metal Forming Plier** makes 1°-90° angular bends; also forms rings and curves when light bends are made at close intervals. Head is 1-1/8" with a 1/2" wide x 9/32" deep V notch. **\$14.95**



**#89245 16-Slot Wooden Tool Organizer** Store up to 16 small tools in 7" x 4" x 3-1/4" of space with this handsome organizer. Offset rows keep tools visible and accessible. **\$18.95 2 or more \$14.95 ea.**



**#89244 12-Space Wooden Tool Organizer**

Hold up to 12 small tools in a 4" diameter space with this nicely-made wooden organizer. Round holes are approx. 1/2" diameter. Approx. 3" tall. **\$15.95 2 or more \$12.95 ea.**



**#89117 Hard Wire-Cutting Plier with Carbide Jaw Inserts** Got a hard wire cutting job? Either you can get this plier or plan on trashing anything else! Carbide inserts at the jaws' cutting edge bite through music wire up to 13 gauge (.031") and other spring-type wire up to .048" with ease. Other quality features include box joint fulcrum for exceptional leverage without straining and spring return action. 7" long overall with 1" nose. **\$29.95**



**#89119 90° Bent Nose Plier** This clever variation of needle nose pliers features non-serrated tapered jaws that are bent at a 90° angle, 3/8" from the tip. This allows the jaws to grip in tight spaces and at angles which ordinary pliers can't. Useful for many applications including soldering, wire and jewelry work, model building and more. Box joint construction with leaf spring return. 5-1/2" long. **\$9.95**



**#90145 Non-Marring Nylon Jaw Tube and Rod Plier** Nylon jaw inserts eliminate marks and nicks when working with wire, rods and tubing. Designed with mating semi-circular indentations in each jaw side, the plier safely holds #6 - #16 gauge wire and tubing, and rods from .050" to .160" dia. Tips close to zero to grab even thinner material. 6-1/2"-long stainless steel plier features leaf springs, box joint construction, and foam grip handles. Includes an extra pair of nylon jaw linings and screws. **\$15.95**



**#90144 Non-Marring Brass Jaw Flat-Nosed Plier** This non-marring brass-lined plier offers a much firmer platform than the nylon-lined type for superior bending, and the flat, half-hard brass won't damage the material being formed. The 1/4" wide by 7/8" long brass jaw linings have tips that close to zero. Made from stainless steel, this 5-3/4"-long plier features leaf springs, box joint construction, and super-comfortable foam grip handles. **\$15.95**



**#90146 Coil Cutting Plier for Jump Rings** It may look funny on its own, but this unique specialty plier was specifically designed to make perfectly round jump rings quickly and easily. Review our video and see how well this special tool performs an otherwise arduous and time-consuming task. Made from stainless steel, this 7"-long plier features leaf springs, box joint construction, and super-comfortable foam grip handles. Works best on 1/8" to 5/16" diameter jump rings. **\$15.95**



**#90189 Brass Parallel Hand Vise** This well-made mini vise securely holds small parts while working in the hand or on the workbench. Inner faces of the jaws are grooved to hold round stock. Jaws are 3/8" wide x 11/16" deep, and open from zero to 9/16". Machined and lacquered hex-shaped handle feels comfortable in your hand. Overall length is 6". **\$20.95**

### 3-piece Aerospace-Style Angled Mini Shear Set

Extra fine jaws reach into confined spaces. Tip angles of 21°, 45° and a unique *reverse angle* of -45° permit both front and back cuts. 3-plier set has corrosion-resistant blackened steel jaws, spring-loaded handles and cushioned no-slip grips. All pliers are 5" long. *Not for use on steel. Grip color may vary.*

**#82526 Angled Mini Shear Set \$34.95**



### Screw Chek'r Instantly Identifies Drill Bits, Screw Sizes and More

Our popular inch and metric Screw Chek'r are ingenious, threaded gauges which quickly tell you size, threads per inch, tap drill size, clearance drill size, length and basic diameter.

They also straighten bent screws and clean up rusty and battered threads. Made in the USA of heavy gauge, satin chrome plated steel. Instructions included.

List \$35.00 each ... Our Price **\$27.95 each**

**#60361** Inch Screw Chek'r for American and Unified screws from number 1 through 5/16". Also identifies wood screws, sheet metal screws, rivets, cotter pins.

**#60345** Metric Screw Chek'r for metric screws from 2 mm through 7 mm.



### Miniature Pry Bar

Great for pulling miniature pins and nails, railroad spikes, staples, etc. Has .040" wide x .137" long slot in a chamfered tip; 2" long blade.

**#81576**  
Miniature  
Pry Bar **\$11.95**



### Economical Nut Starter

**#2116X3**  
Gripster has micro spring fingers that grab the outside of the nut. Works on miniature sizes #00 - #10. Releases by pressing trigger on back end. 4-1/2" long. Set of 3. **\$9.95**



**#86628 Universal Mini Nut Starter** Miniature nuts are a pain. They're hard to pick up and even harder to thread. This tool does both so easily that you'll think you're cheating. Holds all of our miniature nuts from .056" to .125". Cap nuts, star nuts, lock nuts or round nuts...any pattern works. Grab the nut right from your workbench and screw it on! Also great for holding round shanks and hex screws in the same size range, and for eyeglass hinge screws as well. If it's tiny and needs twisting, this tool can do it 3-3/4" long.

**\$24.95**



### 8-piece Open Ended Wrench Sets

Made in the USA! These high-quality miniature wrenches are offered in sought-after small sizes. Moody Brand Acu-Min Multi-Steel handle with 30° offset. 4" long. Comes in vinyl pouch with clear front and secure flap-snap.

**#86799 8-piece Open Ended Wrench Inch Set** includes 5/64", 3/32", 7/64", 1/8", 5/32", 3/16", 1/4", 5/16". **\$39.95**

**#86798 8-piece Open Ended Wrench Metric Set** includes 2.5 mm, 3.0 mm, 3.2 mm, 4.0 mm, 5.0 mm, 5.5 mm, 6.0 mm, 7.0 mm. **\$54.95**



### 1,000 Micro Screws...1,001 Uses

**#83438 1,000-piece Metric Micro Screw Assortment** Set of approx. 100 each of 10 micro sizes includes a random selection of screws ranging in size from 1 mm to 5 mm long, .5 mm to 1.5 mm in diameter, with assorted head styles. Segmented wheel with selector-slot keeps screws organized. Great for a wide range of projects. **\$24.95**



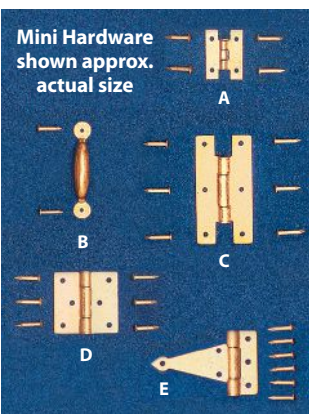
### Mini Extractors to the Rescue!

When a micro screw breaks off, don't panic! The specially-formed tips of our screwdriver-like Mini Extractors engage fractured screw ends so they can be backed out of the hole. Set of 6 **double-ended** chrome-vanadium bits includes 8 extractors (.039" to .079" dia. and 4 screwdriver tips (Phillips #00 and #0 plus flat blades .070" and .086" wide). Anodized knurled aluminum handles include polymer swivel caps, stainless pocket clips and spring-steel bit retainers. Made in USA.

**#83475 Mini Extractor/Driver Set \$49.95**



Mini Hardware  
shown approx.  
actual size



### Solid Brass Mini Hardware

Use our miniature hardware for dollhouse doors and furniture, model railroad structures, ship models, architectural models and more. Fasten with miniature nails included or with glue. Items shown approx. actual size.

**A. #15256 Flush Hinge, 6/pkg. \$6.95**

**B. #15257 Handle, 8/pkg. \$6.95**

**C. #15258 H Hinge, 4/pkg. \$6.95**

**D. #15259 Butt Hinge, 4/pkg. \$6.95**

**E. #15260 Strap Hinge, 4/pkg. \$6.95**

### Micro-Mark Tip:

Our **#85282 Pin Insertion Plier** is the ideal tool to use for driving the mini nails included with these hinges and handles!  
**#85282 ... \$26.95**

### Miniature Nails for Miniature Projects

Solid brass mini nails for models, dollhouse miniatures, model railroads and craft projects.

**#14315 Mini Nails, 3/32" long x .020" diameter (pkg. of 100) \$6.95**

**#81844 Mini Nails, 3/8" long x .020" diameter (pkg. of 100) \$6.95**



**#88042 Screw-Holding Tweezer** Special angled "V"-end notched tweezer places micro screws in areas that would be nearly impossible to reach without it. Easily grips the tiniest screws, from those used for eyeglasses, up to 4-40 size. Securely grabs a multitude of screw head styles, including fillister, pan, flat, hex, oval, button, truss and round. **\$9.95 2 or more \$7 each**



### Micro Screw Starters

Spring-loaded knobs expand the blades so you can insert and hold the screw. Once the screw is started, press the knob to release it, then drive it home.

**#85109** for slotted screws (2.2 mm wide blade) **\$14.95**  
**#85110** for Phillips screws (#00 size tip) **\$14.95**

**#60405 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. **\$9.95/pkg.**







The beast is unleashed with this powerhouse 1/4" hex drive Variable Torque Power Driver! Adjustable torque levels from 1 to 3 newtons of force handle jobs from the most delicate to the most demanding with finesse and control, so driving 1" wood screws repeatedly into 2 x 4 lumber will go just as easily as removing dozens of mini screws from a mechanical assembly. 1-1/2" diameter x 7-3/4" long body includes rubberized side panels for sure grip, in-line forward and reverse rocker switch, anti-roll-away projections molded into the head, 4 bright LEDs to illuminate your work, and a USB-C socket with a moisture protected rubber door at the back end of the tool. Plugs into standard USB connector to recharge. Set includes: • 3.7V DC Lithium Powered Driver • Pozi drive: #0, #1 (2 pieces.), #2 (3 pieces), 3; Phillips: #0, #1 (2 pieces), #2 (3 pieces), #3; Torx: 10, 15, 20, 25, 27, 30; hex: 3, 4, 5, 6; square: 0, 1, 2; slotted: #2, #3, #4, #5, #6 • 1/4" x 1-3/8" drive bit extension • 2" long P2 driver • USB charger cable • Plastic storage/transport case.

**#89994 Variable Torque Power Driver Set.** List \$55.00 ... Our Price **\$49.95**

Add the optional **#81852 1/4" Shank 3-Jaw Chuck** to transform your Variable Torque Power Driver into a power drill. **\$11.95**



This unique 4V rated DC lithium-powered Ultra-Slim Driver Set is ideal for technicians and hobbyists. At just 2.5 oz, this feather-light, yet powerful driver is comfortable in your hand and a workhorse on the bench or on-the-go. Features include an in-line forward and reverse switch and 3 bright LED lights that illuminate your work. Internal battery is USB rechargeable and is back to full power in only 50 minutes; LED indicator shows when charge is complete. Ultra-Slim driver body is only 5/8" in dia. with two built-in flats to prevent tool from rolling; 7" long overall. Provides .25 Newtons / .185 ft. lbs. of torque. 4 mm drive. **Set includes:** • Ultra-Slim 4V Power Driver • 6 nut driver sockets: 2.5 mm, 3 mm, 3.5 mm, 4 mm, 5 mm, 6 mm • 12 M4\*45 mm bits: Phillips #0, #1; Torx 7, 8, 9, 10; spanner/snake eyes: 2.0, 3.0; triangle: 2.5, 3.0; tri-wing: 0.6, 2.0 • 12 M4\*28 mm bits: slotted #1, #2, #3; 5-node: #4, #5, #6; Phillips: #000, #00; Torx 3, 4, 5, 6 • Tweezer • Mini pry bar • Manual screwdriver • iPhone sim card removal tool • USB / USB-C cable • Plastic case.

**#89993 Ultra-Slim Power Driver Set.** List \$45.00 ... Our Price **\$34.95**

Add the optional **#86259 Drill Chuck** to transform your Ultra-Slim Power Driver into a slow-speed micro drill! Compatible with drill sizes from 1/64" to 1/8". **\$19.95**



**#89998 Ratchet Screwdriver/Wrench Combo Set** This is the Ratcheting Screwdriver and Wrench Set that truly does it all! Includes a sleek, rubberized screwdriver handle with magnetized bit holder and 3-position driver for right and left ratcheting action, plus center-position lock, and an ergonomically contoured 1/4" drive ratchet wrench handle. This extensive, yet easily portable set is ready to tackle a wide variety of projects from your workbench to the jobsite. Snap-lock lid keeps everything neat and organized inside the sturdy 9" x 4" x 1-1/4" plastic case. Makes a great gift! **\$18.95**

**1/4" drive sockets, bits and accessories include:** 8 sockets: 5, 6, 7, 8, 9, 10, 11, and 12 mm; 18 driver bits: Phillips #1, #2 and #3; Pozi drive #1, #2, and #3; slotted #3, #4, #5, #6, and #7; Torx 10, 15, 20 and 25; hex #4, #5, and #6; 2-1/4" long extension.

**4 mm drive bits include:** Phillips #00, #0 and #1; Pozi drive #00, #0 and #1; slotted 2, 2.5, 3, and 4 mm; Torx 5, 6, 8, 9 and 10; hex 2, 2.5 and 3 mm.



#### #89995 Ratchet Wrench Driver Set

This great multi-purpose set includes a double-sided, direction-reversible 1/4" driver (one side for bits, the other for sockets), magnetic extension adapter, speed cap and 20 of the most useful driver bits and sockets: 9 Metric sockets: 4, 5, 6, 7, 8, 9, 10, 11, and 12 mm; 2 slotted drivers: 5/32" and 3/16"; 2 Phillips drivers: #1 and #2; 3 Torx drivers: 20, 25, and 30; 4 hex drivers: 3, 4, 5, 6 mm; hex-to-square driver adapter. Snap-lock lid keeps everything organized inside the sturdy 6" x 3-1/2" x 1-1/4" plastic case. **\$8.95**



#### #89997 Ratchet Screwdriver Set

This stout 1/4" drive ratcheting screwdriver fits well in the hand and features a 3-position driver for right and left ratcheting action, plus center-position lock. 5" long x 1" diameter handle also features a swivel top. **Set includes:** 7 slotted screwdriver bits: 2, 2.5, 3, 4, 5, 5.5 and 6 mm; 7 Phillips screwdriver bits: two each #0, #1 and #2 and one #3; 8 Pozi drivers: two each #0, #1, #2 and #3; 7 hex drivers: 2, 2.5, 3, 4, 5, 5.5, and 6 mm; 6 Torx drivers: 10, 15, 20, 25, 30, and 40; 2 square drivers: S1 and S2. Sturdy case keeps it all organized. **\$8.95**



#### #89996 Metric Ratchet Screwdriver Set

Perfect for technicians, this 4 mm drive screwdriver set includes a sleek, rubberized handle with magnetized bit holder and 3-position driver for right and left ratcheting action, plus center-position lock. 5" long x 3/4" diameter handle also features a swivel top. **Drivers and accessories include:** Torx 4, 5, 6, 7, 8, 9, 10 and 15; Phillips #00, #0, #1, 2; slotted 2 mm, 2.5 mm, 3.0 mm and 4 mm; 4-3/4" extension bar. Snap-lock lid keeps everything neat and organized inside the sturdy 6" x 3-1/2" x 1-1/4" plastic case. **\$8.95**

## Gerstner Tool Chests...the Tradition of Excellence Continues



When you purchase a Gerstner Chest, you make an investment. You invest in the valuable precision tools, prized collections, and other precious treasures you keep inside it. You also invest in the finest materials and craftsmanship, so you can enjoy a lifetime of dependable use from something worth passing down through the generations. A Gerstner is built with carefully selected hardwoods and veneers that provide a moisture-free environment for ultimate organization and protection of your items. Each Gerstner Chest features tongue and groove joinery, polished chrome hardware, security locking system, and green felt interior lining. **NOTE: All items ship direct from Ohio to contiguous 48 states only.**



**#91099 Gerstner Unfinished Wooden Tote Case DIY Kit** An excellent project, a creative gift, and when it's all put together, a high-quality tote case for your most delicate and precious items or your go-to tools. Easy to assemble in a weekend by novice or skilled makers and endlessly customizable, less than 20 steps are required to complete the build. 16" wide x 5-3/4" tall x 8" deep. **\$299.95**

See our website for additional Gerstner items and for complete details on each Gerstner Chest



#### #89941 Gerstner 6-Drawer Red Oak Mini Chest

Overall size: 12-1/4" wide x 14" tall x 8" deep; Top compartment: 11-1/4" wide x 2" tall x 7" deep; Drawers: four 10-1/4" wide x 1" tall x 6-1/8" deep, two 10-1/4" wide x 2" tall x 6-1/8" deep. **Super Buy \$339.00**



#### #89758 Gerstner 11-Drawer Red Oak Top Chest

Overall size: 24" wide x 15-7/8" tall x 10" deep; Top compartment: 22-7/8" wide x 3-1/4" tall x 8-7/8" deep; Drawers: six 7-1/2" wide x 7/8" tall x 6-5/8" deep, two 3-5/8" wide x 1-5/8" tall x 6-5/8" deep, two 21-7/8" wide x 7/8" tall x 6-5/8" deep, one 21-7/8" wide x 1-5/8" tall x 6-5/8" deep. **Super Buy \$489.00**



#### #89942 Gerstner 11-Drawer Red Oak Tool Chest

Overall size: 21-1/2" wide x 24-1/2" tall x 11" deep; Top compartment: 20-1/4" wide x 3-1/4" tall x 9-3/4" deep; Drawers: six 9" wide x 1-1/8" tall x 9-1/8" deep, three 19-1/2" wide x 1-1/2" tall x 9-1/8" deep, two 19-1/2" wide x 3" tall x 9-1/8" deep. **Super Buy \$709.00**

**#90440 Shaviv Premium Filing & Deburring Kit** Shaviv is the answer to unwanted burrs on a wide variety of materials such as metal, plastics, wood and more. Wherever the burr, Shaviv has the tool in its extensive range to solve your problem. This is a great set for precision work on holes, slots, and edges featuring a variety of different diamond coated files. Perfect for Straight Edge, Hole Edge, Hole Back Edge, Hole Inner Surface, and Flat Surface applications. This set includes one each MB2020E Handle, E100S Blade, E400 Blade and 5 styles of diamond coated files. Made in Israel. List \$194.66... Our Price **\$159.95**



**#90441 Shaviv Tool & Die Maker Kit with Leather Pouch** This premium set contains UF1 Flat Diamond Coated File, US1 Triangular Scraper, US3 Round Scraper, US4 Hooked Corner Scraper, UB38 Miniature Rotational Deburring Tool for min. hole diameter 0.08" (2 mm) in leather case. Made in Israel. List \$126.57... Our Price **\$99.95**



## Reamers... Handy Tools for Enlarging and Deburring Holes in Any Material

**#84456 Tapered Diamond Reamers** with fine diamond grit may be used with the optional #82649 handle at right for delicate control of reaming holes to size. Reamers .032" dia. at tip; .072" dia. near shank. 2" long overall. Shank diameter 3.0 mm. Package of 10. **\$12.95**

**#82649 Wood Handle for 1/8" Shank Reamers & Files** Comfortable contoured wood file handle with sure-grip chuck holds 3.0 mm diameter shanks. 5" long. **\$6.95**



### #88396 4-Piece Gripster Tool Set

Press the top of these unique tools and 2, 3, 4 or 5 slim, stainless steel prongs emerge from the tip. Release pressure and the prongs close around the object, gripping it tightly. Set includes four Gripsters and fitted wood storage box. **\$29.95**



### #90654 Silicone Anti-Skid Bench Protection Mat

Two-sided 14" x 24" lab-quality mat provides a smooth, non-stick work surface for a variety of uses. Also keeps high-vibration benchtop power tools from moving around during operation. Includes embedded magnets to hold small parts and components. Dishwasher-safe. **\$49.95**

## Grab Small Items with the Push of a Button



**#80240 4-piece Nutdriver Set** is sized specifically for use with our miniature hardware at right. Includes 4 special nutdrivers for 00-90 (5/64"), 0-80 (3/32"), 1-72 (7/64") and 2-56 (1/8") hex head screws and nuts. **\$29.95**

## Self-Closing Stainless Steel Specialty Tweezers Provide New Angles on Small Parts Placement

A Micro-Mark **Exclusive!**



#90700



#90701



#90702

**#90700 Bird Beak Fine-Point Tweezer** goes where no other tweezer can. Smooth-curved shank takes an "L" shaped turn, allowing you to go around obstacles to place and remove delicate parts. Self-closing action provides sure grip until you are ready to release the part. Also holds tiny parts with limited gripping area while you manipulate, paint and trim. 4-1/4" long with 1/4" angled tip. Only 1/32" wide when closed. **\$10.95**

**#90701 45° Reverse-Angle Fine-Point Tweezer** enables the user to work in confined areas and to manipulate delicate components and parts at a different angle than straight-tipped fine-pointed tweezers. Use with the tip pointed upward or downward. Self-closing feature alleviates hand weakness for maintaining grip. Tweezer is 5" long with 3/16"-long tip. Opens to 1/2" wide; only 1/16" wide when closed. **\$10.95**

**#90702 Reverse-Angle Wide-Grip Tweezer** Wide, serrated tip pads provide more gripping action than typical fine-pointed tweezers. 5-1/2" long with 1/4" wide tips. **\$10.95**

A Micro-Mark **Exclusive!**

## Micro-Make™ MasterShop Ultimate Miniature Brass Hardware Set

It is a maker's dream come true! Outfit your shop with the be-all-end-all selection of every miniature screw, nut and washer we sell in one ultimate package...and **SAVE OVER \$850.00!** Never before have we offered such a set - 2,000 pieces all together - plus a perfect pair of storage containers to keep every last piece neat and organized until you need it. You will never search for just the right round, flat or hex head screw again!

**#88542K**

Micro-Make™ MasterShop Ultimate Mini Hardware Set

Value \$1,356.00... Our Price **\$499.95**



**#88542** 30-Piece Screw Cap Container Set and Plastic Storage Box ONLY **\$19.95**

## Miniature Brass Screws, Nuts & Washers

25 Pieces Per Package \$16.95/pkg.			Round Head	Flat Head	Hex Head
Size	Length	Item #	Item #	Item #	
00-90	1/8"	85470	85434	85450	
00-90	1/4"	85471	85435	85451	
00-90	3/8"	85472	85436	85452	
00-90	1/2"	85473	85437	85453	
0-80	1/8"	85474	85438	85454	
0-80	1/4"	85475	85439	85455	
0-80	3/8"	85476	85440	85456	
0-80	1/2"	85477	85441	85457	
1-72	1/8"	85478	85442	85458	
1-72	1/4"	85479	85443	85459	
1-72	3/8"	85480	85444	85460	
1-72	1/2"	85481	85445	85461	
2-56	1/8"	85482	85446	85462	
2-56	1/4"	85483	85447	85463	
2-56	3/8"	85484	85448	85464	
2-56	1/2"	85485	85449	85465	

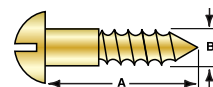
### Nuts

25 pieces in a package, \$16.95 per package

### Washers

Item No.	Size	Item No.	Size
85466	00-90	85486	00
85467	0-80	85487	0
85468	1-72	85488	1
85469	2-56	85489	2

## Solid Brass Mini Wood Screws



These miniature wood screws are ideal for a wide range of projects. Refer to diagram above for size selection. Price is for a package of 40 screws.

Item #	Size	A	B	Price
60741	#0	1/4"	.060"	<b>\$9.95</b>
60742	#0	3/8"	.060"	<b>\$9.95</b>
60743	#1	1/4"	.073"	<b>\$9.95</b>
60744	#1	3/8"	.073"	<b>\$9.95</b>
60745	#1	1/2"	.073"	<b>\$9.95</b>
60746	#2	1/4"	.086"	<b>\$9.95</b>
60747	#2	3/8"	.086"	<b>\$9.95</b>
60748	#2	1/2"	.086"	<b>\$9.95</b>

## Reference Chart

Size	Dia.	Clear Drill	Tap Drill
00-90	.047"	55	61
0-80	.060"	52	55
1-72	.073"	48	53
2-56	.086"	43	50



# MICRO-MARK METAL SHOP

Premium quality half hard metal for ease in cutting, drilling, filing and bending.  
All items are 12" long unless otherwise noted. All sizes listed are outside dimensions.

## Metal Shop Assortments

(Numbers in parenthesis indicate number or pieces per item)

### #82843 Small Round Brass Tube Assortment \$27.95

Contents: 1/16 (3), 3/32 (3), 1/8 (3), 5/32 (2), 3/16 (3), 7/32 (2), 1/4 (2)

### #82844 Large Round Brass Tube Assortment \$59.95

Contents: 5/16 (6), 3/8 (6), 7/16 (3), 1/2 (3)

### #82845 Round Aluminum Tube Assortment \$14.95

Contents: 1/16 (4), 3/32 (4), 1/8 (3), 5/32 (2), 3/16 (2), 7/32 (1), 1/4 (2)

### #82846 Square Brass Tube Assortment \$39.95

Contents: 1/16 (4), 3/32 (2), 1/8 (4), 5/32 (1), 3/16 (3), 7/32 (1), 1/4 (3)

### #82849 Round Copper Tube Assortment \$24.95

Contents: 1/16 (4), 3/32 (4), 1/8 (6), 5/32 (4)

### #82851 Round Brass Rod Assortment \$14.95

Contents: .020 (2), 1/32 (5), 3/64 (2), 1/16 (4), 3/32 (2), 1/8 (2), 3/16 (1)

### #82852 1/64" Brass Strip Assortment \$34.95

Contents: 1/4 (6), 1/2 (3), 3/4 (3), 1 (3), 2 (3)

### #82853 1/32" Brass Strip Assortment \$49.95

Contents: 1/4 (4), 1/2 (4), 3/4 (3), 1 (4), 2 (3)



## Brass Tube .014" WALL

ITEM NO.	SIZE O.D.	PCS/ PACK	PRICE/ PACK
82632	1/16"	15	\$14.95
60197	3/32"	15	\$14.95
60198	1/8"	15	\$21.95

ITEM NO.	SIZE O.D.	PCS/ PACK	PRICE/ PACK
60199	5/32"	12	\$19.95
60200	3/16"	12	\$24.95

## Solid Brass Rod

ITEM NO.	SIZE O.D.	PCS/ PACK	PRICE/ PACK
82635	.020"	25	\$10.95
82636	1/32"	25	\$10.95
82637	3/64"	20	\$11.95
82638	1/16"	15	\$10.95
60227	3/32"	16	\$19.95
60228	1/8"	10	\$16.95

## Square Brass Tube .014" WALL

ITEM NO.	SIZE	PCS/ PACK	PRICE/ PACK
60218	1/8"	12	\$24.95
60222	1/4"	6	\$18.95

See the Metal Shop Assortments at left for additional options!

## 4" x 10" Sheet Metal

ITEM NO.	SIZE	PCS/ PACK	PRICE/ PACK
60234	.005" Brass	6	\$22.95
60235	.010" Brass	6	\$24.95
60236	.016" Brass	6	\$34.95

## 6" x 12" Sheet Metal

ITEM NO.	MATERIAL	THICKNESS	PCS/PACK	PRICE/PACK
83125	Stainless Steel	.005"	2	\$14.95
83511	Stainless Steel	.010"	2	\$19.95
83124	Brass	.005"	2	\$12.95

## Metal Forming Plier Sets Bend Any Shape You Need



See details of each plier at [micromark.com](http://micromark.com)

Like our ever-popular and exceptionally useful #60398 4-piece Metal Forming Plier Set (available below), we have reached out to our source for unique specialty pliers to assemble this new, beautifully made Slim Line Metal Forming Plier Set. Designed to complement and extend the functions and capabilities of the original set, this finely-crafted new set will allow you to form U, V, and virtually any other shape, with skill, control and accuracy, even in confined areas. Let your creativity run free! Pliers are made of highly polished stainless steel and feature box-joint construction for precision performance and durability.

#89943 Slim Line 5-piece Metal Forming Plier Set. List \$235.00 ... Our Price **\$99.95**



A Micro-Mark Exclusive!

#60662 Super Leverage Metal Shear The unique design cuts like a male/female punch and die, not like a scissor. That's why it's the only tool we know of for under \$100.00 that will cut sheet steel up to 18 gauge (.0478"). It will also cut thicker, softer metals (aluminum and brass up to .065") with a lot less effort. Spacing between the hardened steel jaws can be adjusted to accommodate wear and different thicknesses of metal. Made entirely of steel with vinyl grip handles. 10" long overall. **\$13.95**



Jaw Detail

## Finally... A Metal-to-Metal Glue that Really Works!

Sometimes you just want to join metal parts and assemblies to other metal parts and assemblies without the hassles of soldering or welding. This instant-cure metal-to-metal glue makes that process quick and easy. Tested in the Micro-Mark shop, this product gets the job done like no other. 1 oz bottle with applicator tip.

Note: As with other CA adhesives, safe handling is important. See our website for details.

Ships by ground to 48 contiguous U.S. only.

#89160 Altec MR Metal Cyanoacrylate Adhesive, 1 oz **\$24.95**



Versatile  
Hand-Held  
Cutting Jig for  
Metal and  
Wood

Use this nicely made, hand-held mitering tool to make quick, accurate 15°, 30°, 45° and 90° angled cuts in round metal tubing, rods and wood dowels, as well as making clean 90° cuts in metal and wood strip stock, model train rail and more. Hardened, machined steel head is mounted onto an ergonomically-contoured 4" wood handle. Includes an integrated hold-down bar to keep fingers clear of the cutting area and 0 to 1" adjustable/removable stop for making repeated cuts. Slotted head accommodates saw blades up to .015" thick. For added capability, the head can be removed from the handle and secured in a vise. V-grooved channel holds stock from .010" to .25" high.

#87908 Multi-Angle Metal & Wood-Cutting Jig. List \$75.00 ... Our Price **\$59.95**



## #84255 Pipe and Tube Tweezer Set

Specially contoured tweezers securely hold round or hex-shaped objects while fabricating, assembling and soldering. Angular tip lets you access tight places. Set of 4 works on sizes down to approx. 1/8" dia. Made of durable, non-magnetic stainless steel. **\$19.95**



#83260 Bits and Pieces of Metal Nearly 1 lb. of assorted sizes and shapes of metal tubes and rods in lengths up to 5". **\$28.95**



#81774 101-piece Spring Assortment Includes a selection of industrial quality extension, and compression springs for a variety of applications and uses. **\$11.95**



#86588 Xuron Micro Bending Plier Uniquely shaped jaws form intricate shapes in wire and light gauge strips of brass and aluminum. Features Xuron's Light-Touch™ return spring plus non-slip Xuro-Rubber™ grips for comfort and control. **\$21.95**



A Micro-Mark Exclusive!



Small enough to work with fine parts requiring precision and control, yet sturdy enough to apply a hefty 250 lbs. of force, **Press-It** is perfect for press-fitting small assemblies together and for removing gears and wheels from axles. Use as a hole punch with optional tooling (below). Includes press with 3/32" press tip, die bore plug, ram thumbscrew, adjustable nylon glib and instructions. Constructed of steel and aluminum alloy. Base is 7" x 3". Throat depth is 4-1/4".

**#83539 Press-It.** List \$125.00 ... Our Price **\$79.95**

**#83708 9-piece Tooling Set for Press-It** includes 1/16" tip; bored cone for pointed axles; 3/16" blank; oversize 1/2" O.D. tip; center punch tip; and 1.5 mm, 2 mm, 3/32" and 1/8" bored tips. **\$19.95**

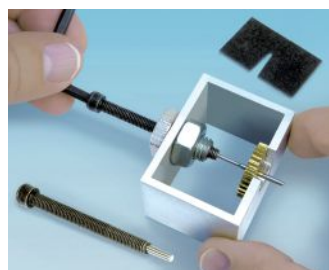
**#83709 9-piece Hole Punch Set for Press-It** includes one punch and one die in each of the following inch sizes: 1/16, 5/64, 3/32, and 1/8, plus adapter needed to mount punch to bottom of ram. Note: Maximum thickness for all hole punching is .020" half-hard brass or equivalent. List \$75.00 ... Our Price **\$39.95**

**#84424 V-plate for Press-It** For removing wheels and gears from axles. **\$5.25**

### #88038 8-piece Fiber Grip Tweezer Set with Leather Case

This set of exceptional tweezers is perfect for use in many applications, including jewelry work, brazing, soldering and any type of small parts handling. Set features 6 cross-lock type (self-closing) and 2 non-locking, all with fiber grips that protect the user from excessive heat when soldering parts. Sizes range from 6-1/4" to 6-3/4" long with serrated tips for sure grip. Cross-lock tweezers include straight, oblong (5/16" to 1" capacity), round (5/8" to 1-3/8" capacity), square (1" to 1-3/4" capacity), angled and curved; non-locking tweezers have straight tips and open/close from 0 to 3/4". 6-1/4" to 6-3/4" long. All are packed in a zippered leather case. List \$40.00 ... Our Price **\$29.95**

### Unique Fiber Grip Tweezer Set



**#84746 Wheel & Gear Remover** is made to safely remove wheels and gears from axles and shafts. Use the included hex key to turn in the threaded ram; the shaft will be pushed out of the gear. Same for axles and wheels. Works on axles and shafts 1/16" dia. and larger; wheels and gears up to 1-5/8" dia. Includes 2 rams (approx. .058" and .098" diameter tips), plus V-plate for small wheels, gears and shafts. Clearance under ram 3/4"; slot width 1/2". **\$29.95**

### Bare-Metal Foil Adds the Finishing Touch to Models

No matter how hard you try or what paints you use, no painted surface compares to real metal. The pro modeler's choice for decades, Bare-Metal Foil is adhesive-backed real metal, only .0005" thick. It's easy to apply, conforms to all curvatures, and allows details to show through. And now, with the widest selection of colors and finishes that we've offered, you'll be able to quickly replicate nearly any metal surface more realistically than ever before. Each package includes **TWO** 6"x 12" sheets and instructions. Choose color/finish below. **\$16.95/pkg.**

**#80795 Matte Aluminum**

**#81636 Ultra-Bright Chrome**

**#90985 Chrome**

**#90986 Black Chrome**

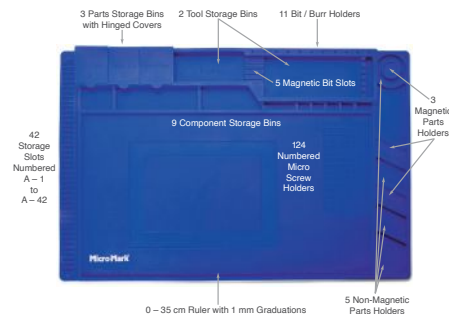
**#90988 Gold**

**#90989 How to Use Bare-Metal Foil**, by master modeler Dennis Doty, is a detailed, step-by-step explanation of the best techniques for applying Bare-Metal Foil. **\$5.95**

**#82328 5-piece Burnishing Set for Bare-Metal Foil**, masking materials, and more. **\$14.95**



**#82747 Quick-Lock Milling/Drilling Vise** Specially designed vise adjusts quickly and easily to hold stock securely while drilling, machining and more. 2" wide x 5/8" deep jaws have grooves for holding round objects; opens 1-1/2". Overall height 1-5/8". Made of machined steel. **\$74.95**



**#90965 Micro-Mark Silicone Work Mat** features multiple magnetic areas and over 150 compartments to help keep small hardware, bits, etc. in place and organized. 17.3" x 11.8" workspace provides ample room for a wide variety of projects, then rolls up for easy storage. Made of soft yet durable silicone, the mat's naturally non-stick surface protects delicate items from damage while assembling, repairing, painting, and more. Heat-resistant to 932°F, this multi-purpose mat is also great for soldering work. **\$19.95**



## High-Performance, Professional Quality Resistance Soldering at an Affordable Price!

**A Micro-Mark Exclusive!**



**Complete outfit includes everything shown here for one low price!**



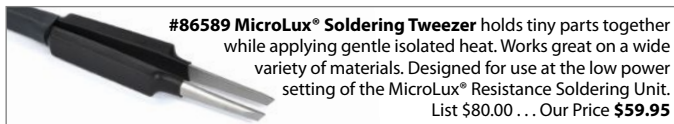
Easy-to-use MicroLux® Resistance Soldering Unit generates heat only at the joint, so that already-soldered parts won't fall off while adding new ones. How it works: With the ground clip connected, place the carbon electrode on the tip of the handpiece in contact with the part to be soldered and step on the foot switch. The transformer passes a safe, low-voltage electrical current through the part, which heats it to soldering temperature within seconds. Apply the solder, then release the foot switch to instantly cool for a strong, durable joint. Includes 63 watt\* transformer with dual power outputs for heavy-weight and light-weight parts, handpiece, 6 carbon electrodes, ground lead, on/off foot switch, and instructions.

**#85522 MicroLux® Resistance Soldering Unit with Single Electrode Handpiece \$179.95**

*\*Since a resistance soldering unit concentrates heat at the joint, it will heat larger work than will a conventional soldering iron of the same power.*

**#87726 MicroLux® Resistance Soldering Super Value Package** includes soldering unit set, soldering tweezer, stand, Stay Brite silver solder and flux, 6" x 6" soldering pad, T-pins and metal assortment. Value \$323.69 **Super Buy \$229.95**

**#87726K Resistance Soldering Accessory Value Package** includes everything in the set above except the resistance soldering unit. Value \$143.19 **Super Buy \$119.95**



**#86589 MicroLux® Soldering Tweezer** holds tiny parts together while applying gentle isolated heat. Works great on a wide variety of materials. Designed for use at the low power setting of the MicroLux® Resistance Soldering Unit. List \$80.00... Our Price **\$59.95**



**#85824 Grounding Vise for Resistance Soldering Unit** is the perfect "workstation" for resistance soldering. Universal vise with heavy, cast-iron base holds your workpiece securely while you solder. 3-foot long cable connects directly to your resistance soldering unit; eliminates the clip lead. Repositionable vise pins securely hold objects of any shape. Base diameter: 6". List \$100.00 Our Price **\$69.95**

## Resistance Soldering Outfits from American Beauty



Tweezer Handpiece

Plier Handpiece

Single Electrode Handpiece

Includes On/Off Foot Switch

Use for soldering power feeds to model railroad track (the fast, pinpoint concentration of heat won't melt nearby plastic ties), brass trestle construction, turnout fabrication, rail joining, brass scratch-built items, ship model railings, fittings and more. Works on any material that can be soldered. Use the tweezer handpiece for delicate work: fine wire, chain, etched detail parts, railroad rail. The plier handpiece is for larger parts: castings, brass structural shapes, etc. American Beauty brand made in the USA to heavy-duty industrial standards.

**Each set includes 120VAC\* power supply, handpiece and foot switch**

Item #	Power	Handpiece Type	List Price	Our Price
#85075A	100 watts	Single Electrode	\$550.00	<b>\$469.95</b>
#80417A	100 watts	Tweezer	\$550.00	<b>\$469.95</b>
#80462A	250 watts	Tweezer	\$650.00	<b>\$529.95</b>
#81561A	250 watts	Plier	\$700.00	<b>\$549.95</b>

*\*120VAC versions are available at [www.micromark.com](http://www.micromark.com)*

**#80765 Tweezer Handpiece** only with .078" diameter pointed electrodes **\$169.95**

**#80418 Extra Electrodes** for Tweezer Handpiece (6) **\$24.95**

**#81527 Plier Handpiece** only with 1/4" square shapable carbon electrodes **\$209.95**

**#81559 Extra Electrodes** for Plier Handpiece (2) **\$29.95**

**#80419A Single Electrode Handpiece** with 48" cord plus ground lead with clip and 60" cord. Use for applications that are not suitable for tweezer or plier use. Clip is attached to one part and electrode is touched to the other. **\$169.95**

**#80420 Extra Electrodes** for Single Electrode Handpiece (6) **\$59.95**

## Iso-Tip Cordless Soldering Iron

Now you can perform soldering operations away from your workbench without power cords that weigh you down or get tangled. Convenient recharging stand keeps your iron easy to reach, on constant charge and ready to solder. Recharges completely in 3 to 4-1/2 hours; a partially discharged battery returns to full capacity in less than one hour. Set includes cordless soldering iron, recharging stand, work light and "lock-off" switch, one fine tip (our #50314), 1 heavy duty tip (our #50315) and instruction booklet.

Power: 25 watts; maximum temperature: 900°F

**#50313 Iso-Tip Cordless Soldering Iron.** List \$89.95 Price **\$74.95**

**Extra Soldering Tips - \$12.95 each**

**#50317 Micro Tip**

**#50314 Fine Tip**

**#50315 Heavy Duty Tip** (high wattage)



**#87467 3-in-1 Pen Torch** You'll appreciate the precise control this mini torch gives you for delicate soldering jobs. The pin-point torch flame can be adjusted from 3/8" to over 1/2" in length and reach up to a maximum temperature of 2450°F. Includes a soldering attachment that converts your torch to a cordless soldering iron in seconds, with a tip temperature up to 750°F. Torch may also be converted to a Hot Air Blower. Burns up to 1 hour as a torch, 2 hours as a soldering iron. Torch is 7" long, (8-1/4" with soldering head attached) with 3/4" diameter barrel. Fills easily from a standard butane can (sold separately). List \$35.00 Price **\$24.95**

**#60909 Butane Fuel**, 42 grams (ground ship to 48 contiguous U.S. only) **\$7.95**



**Torch includes integrated flip-down stand and soldering attachment with 2 pointed soldering heads.**

## Soldering Tweezers with Built-in Stands Hold Wires for You



A Micro-Mark Exclusive!

Self-closing tweezers include built-in 4-sided stands which hold workpieces and wires for you, elevating them above the benchtop or soldering pad and keeping both hands free for you to solder. Fiber handles protect your fingers from residual heat. Serrated steel tips open to 1". Overall length approx. 6-1/2". Use several tweezers and different combinations to hold parts in perfect alignment and just where you want them while soldering.

#85151 Soldering Tweezer with Stand **\$14.95** 2 or more **\$10.95 ea.**

#88576 Double Soldering Tweezer with Stand **A Micro-Mark Exclusive! \$24.95**



Use these small, light duty hemostats as super-slim needle nose pliers, clamps, heat sinks, vises, etc. Quality box joint construction. 5" long. Serrated jaws. **\$12.95 ea.**

2 or more, same no., stainless only **\$9.50 ea.**

#21110 Straight Tip, stainless steel

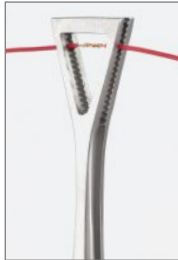
#21111 Curved Tip, stainless steel

#88583 Straight Tip, titanium plated **\$14.95**

#88584 Curved Tip, titanium plated **\$15.95**

A Micro-Mark Exclusive!

#87864 **Splice-It-Easy Soldering Tweezer** Specially designed tweezer is ideal for splicing wires faster, easier and cleaner than ever before. A simple one-handed pinch to lock or single thumb-flip to unlock is all it takes for this amazing "third hand" to do its job. Just locate your splice in the center of the 1/2" x 5/8" window and let the tool's serrated jaws and clever locking mechanism do the rest. Made of solder-resistant stainless steel. Holds stranded and solid wire from #28 to #18. Overall length: 8-1/8". List \$26.00... Our Price **\$19.95**



## Tix – The Hardest Soft Solder on Earth

#17110 **Tix Solder** Easy flowing solder melts at only 275°F and yet has the holding power of 4,300 lbs. per square inch. Adheres to all solderable metals and works with soldering iron, gun or torch. Will not tarnish. The jeweler's choice for years. Package of twenty 3" long sticks. **\$21.95**

## #17111X2 Tix Flux

Cleans and prepares metal for best solder adhesion. Works with any soft solder. Washes off with water. Note: Not for use with printed circuit boards.

Two 1/2 oz bottles. **\$12.95**

## #17112X2 Tix Anti-Flux

Prevents solder from flowing to unwanted areas. Brushes on easily. Two 1/2 oz bottles. **\$12.95**

A Micro-Mark Exclusive!

## #89083 Tix Soldering Rack by MicroLux®

is custom-made to hold two sets of Tix Soldering Sticks, Tix Flux and Tix Anti Flux (not included; available separately). Rack not only keeps Tix products neat and organized, it helps prevent the small bottles from tipping over during use. Rack measures 4-3/4" long x 3-3/4" deep; 2-1/4" high. Makes a great companion to our #88700 MicroLux® Paint Rack and #88879 MicroLux® Gluing Station (available separately). Assembly required. **\$14.99**



## #60381 Soldering Iron Stand

Chrome-plated coils with a 3-1/4" x 5" enameled steel base. Fits our #17107 Soldering Iron/Knife and other soldering irons and pen-type torches with barrels up to 3/4", 5-1/2" high. **\$12.95**

HOT  
ITEM!

**Micro-Mark Variable Temperature Soldering Station Has All the Features and Performance You Want...Without the High Price Tag**

#84383 **Micro-Mark Variable Temperature Soldering Station** gives you a higher level of performance than you can get with a standard gun or iron, but without the cost of an industrial-type soldering tool. Features variable power control from 5W to 40W (up to 900° F), allowing one tool to do the work of several. Includes soldering iron with cushioned foam grip, soldering tip, on/off switch with power-on light, safety guard iron holder and sponge pad for tip cleaning. List \$45.00... Our Price **\$29.95**

#84384 Set of 3 tips for #84383 **\$7.95**

#84385 Set of 3 sponges for #84383 **\$6.95**

## Stainless Steel Micro Mini Clamps Hold Where Others Can't

#14533X2 **Micro-Mini Clamps, Alligator Jaw (3/8" Capacity, Set of 12)**

Our spring-loaded micro-mini clamps are ideal for all types of small applications. Jaws may be filed or ground to any shape. Especially good for soldering since solder won't stick. **\$12.95**



## The Easy Way to UNSolder



Place our desoldering braid in contact with the joint you want to unsolder and heat with your soldering iron. The flux-impregnated braid will quickly and safely draw the solder out of the joint. You can then separate and renew the joint easily. Works on mechanical assemblies and electronic circuitry. Supplied in a 0.100" wide x 25 foot-long roll.

#85289 Desoldering Braid **\$24.95**

## Stay-Brite™ Silver Solder

Stay-Brite™ premium silver solder works on **all** metals except aluminum (even stainless steel and cast iron). It flows freely and smoothly and has over twice the tensile strength of regular solder. Melts and flows at only 430°F, providing strength without distortion. Includes a 1/2 oz coil of solder and 1/2 oz bottle of Stay Clean flux. Can be used with resistance soldering equipment, soldering iron or torch. Stay-Brite is lead free.

#80822 Stay-Brite Silver Solder **\$24.95\***



#60664 **Solder-It Soldering Paste** Just apply a small amount from the convenient, no waste syringe and heat with soldering iron or torch. The paste bubbles away, leaving a clean, bright, hard joint that won't tarnish. Has over twice the tensile strength of regular solder. Flows smoothly at just 430°F. Solders all metals, except aluminum, zinc and pot metals (even solders stainless steel). Ideal for jewelry, models, autos, electrical connections and more. Contains no lead or corrosive materials. 7.1 grams. **\$12.95**

## #60393 Cross-Locking Heat Sink Tweezer with Slotted Tips

holds small diameter hook-up wire in place and draws heat away from the insulation so it won't melt. Keeps soldering jobs neat while preventing short circuits and burned fingers. A half-round slot milled in both jaws holds wire securely. Made of stainless steel with heat resistant grips. 6" long. **\$14.95**







#21120

**"Third Hands"  
Keeps Your  
Two Hands  
Free to Solder,  
Assemble, Etc.**

**#21120 Triple Grip Third Hand** 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. **\$9.95**

**#84453 Lighted Third Hand with Magnifier** includes 2 alligator-type spring clamps, 2-1/4" dia. 3x magnifier, and miniature goose-neck LED lamp. List \$23.00... Our Price **\$19.95**

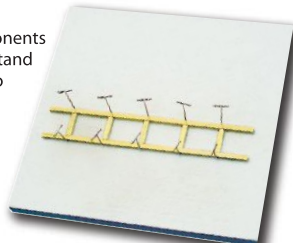
**Ceramic Fiber Soldering Pads** keep small components together as you solder. Half-inch-thick pads withstand temperatures up to 2,280°F, yet are soft enough to accept our T-pins (below) to hold parts securely.

**#70219** Soldering Pad, 6" x 6" **\$15.95**

**#80751** Soldering Pad, 6" x 12" **\$34.95**

**#70220** Soldering Pad, 12" x 12" **\$29.95**

**#14318** "T" Pins, package of 50 **\$7.95**



### General Purpose Solder Wire for Electronic and Model Assembly



Flux-coated for easy flow and maximum adhesion, and only 1 mm (.039") diameter for good control, this is the preferred solder for electronic assembly. Works for model assembly as well...especially on brass and copper. Alloy is 40% tin/60% lead...an economic alternative to higher tin alloys, and with a wide melting range of 361° - 460° F. Sold as a set of 3 rolls; total weight 300 grams (10.6 ounces).

**#86295** Flux-coated Solder (300 g) **\$21.95**

### Magiclasp Forceps for Delicate Work in Confined Areas



Magiclasp Forceps have a special in-line latching system and a petite outline that gives you perfect control over grasping, latching and releasing in tight locations (smooth tips are only 1/16" wide!). Made of satin stainless steel. 5-1/2" long x 3/8" wide with no-slip grips and integral leaf springs.

**#82488** Magiclasp Forceps **\$19.95**



#84453

### Scratch Brush Cleans Metal for Soldering



The Scratch Brush easily cleans away oxidation, dust and paint from brass, steel, copper, nickel silver and other solderable metals so that solder sticks properly. Retractable metal bristles adjust like a mechanical pencil so that Scratch Brush can reach where larger brushes can't.



**#82466A** Scratch Brush **\$16.95**

**#82467** Brush Refills (3) **\$7.95**

### Miniature Brushes Get into the Tightest Corners



Unusual brushes are excellent for removing rust and dirt from smallest parts and for scratching metal and glossy plastic for better solder and glue adhesion. Bristles feed out like a mechanical pencil.

**#14258** Brass Bristle Brush **\$12.95**

**#14259** Fiberglass Bristle Brush **\$12.95**

**#14342** Two-piece Set, one each of above List \$25.00... Our Price **\$19.95**

**#14343** Brass Refills, 2/pkg. **\$7.95**

**#14344** Fiberglass Refills, 2/pkg. **\$5.95**

**#81850** Ultra Micro Fiberglass Brush **\$11.95**

**#82027** Ultra Micro Fiberglass Refills, 12/pkg. **\$13.95**



### Hard-to-Find Wire Stripper for Micro Thin 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.

**#14221** Micro-Size Wire Stripper **\$24.95**



### Shrink Tubing Protects Electrical Connections

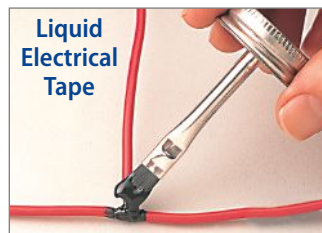


Heat Shrink tubing makes wiring jobs look neat and prevents shorting. After soldering or crimping the connection, slip the tubing over the joint and use a heat gun to shrink the plastic tubing over the joint. 127-piece assortment includes 7 sizes from 1/16" dia. x 1-1/2" long to 1/2" dia. x 3-3/8" long. Trim to length with scissor or wire cutter. Includes compartmented storage box.

**#83544** Heat Shrink Tubing Assortment with Storage Box **\$9.95**  
**3 or more \$6.45 ea.**



**#85219** 72-piece Heat Shrink Tubing Assortment includes 24 each of 1 mm (.039"), 2 mm (.078") and 3 mm (.117") dia. tubes. All are 160 mm (6-1/4") long. Trim to length as needed. **\$9.95**

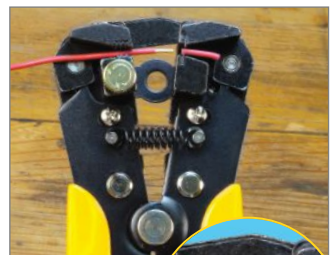


### Liquid Electrical Tape

**Keeps Connections Moisture-Proof and Safe** Liquid rubber coating insulates electrical connections and seals out corrosion-causing moisture. Use on control panels, model railroad wiring, lighting circuits, PC boards, around the house and on auto, truck and boat wiring. Keeps terminal screws from vibrating loose. Just brush on and let dry. Won't crack, peel or harden. 4 fluid oz can with brush applicator cap. Black color. Ships by ground to 48 contiguous U.S. only.

**#84902** Liquid Electrical Tape **\$11.95**

### Wire Stripper Automatically Adjusts to Any Wire Size



Heavy-duty wire stripper automatically adjusts for wire sizes from #10 through #26. Use for thin wire found in model railroads and R/C models, as well as heavier household and automotive wire. It's faster, easier and safer to use than other kinds of strippers. Also cuts wire, crimps terminals and even strips twin wire cable. Made of steel with vinyl coated handles. 8-1/4" long.

**#81317** Wire Stripper **\$19.95**

### Mini Heat Gun is the Perfect Size for Hobby and Craft Use



Mini heat gun generates a hot, but gentle air stream that gets the job done without blowing parts off your workbench. Compact and lightweight, it includes a built-in stand, on/off switch and 6' line cord that plugs into standard 120VAC outlet. Heats virtually instantaneously. Use for shrinking electrical insulation, paint removal and more. Max. temp: 650°; 360 watts, 3 amps.

**#84433** Mini Heat Gun **\$24.95**

### Micro Switches

Single-pole, double-throw contacts switch power from one terminal to another, or make or break a circuit depending on hookup. Small size (only 1/4" x 1/2" x 3/4") to fit in tight places. Contacts rated 1 amp. Includes wiring diagrams. 10-pack. **\$19.95**



Shown at actual size

## Micro-Precision Wire Stripper

**#90338 Jokari Micro-Precision Stripping Tool** is ideal for fast, safe and precise stripping of the delicate wires and strands used in electronic, telecommunications and modeling applications. Features include an adjustable length stopper and integrated cutter for cable diameters of up to 0.8 mm Ø. The tool has a lightweight design and is great for PVC, Teflon, Kynar, Tefzel, Mylar and other wire types with diameters AWG 30, 28, 26, 24, 22, 20 (0.25, 0.30, 0.40, 0.50, 0.60, 0.80 mm Ø). Made in Germany. **\$57.95**



## #91143 Wiha Insulated 6.3" Industrial Long-Nose Plier

With features including ergonomic cushion grip handles for comfort and control, dual durometer construction for long-lasting durability, and handles directly molded to the steel for a permanent bond, Wiha Insulated SoftFinish® Cushion Grip Pliers and Cutters set the standard for premium quality. Highest grade tool steel provides strength and durability, and induction hardened cutting edges and jaws offer superior sharpness and longevity. Each plier is tested to 10,000 volts AC and rated to 1,000VAC (1,500VDC) for safety and peace of mind. **\$24.95**



## Fujiya "Kuorkin" (Black Gold) Premium Quality Wire-Work Plier

Professional quality 8.5"-long electrician's and mechanic's plier by Fujiya is beautifully crafted and well-balanced. Angled channels guide stranded and solid core wire into super-sharp cutting edges that easily remove wire coatings from 10 to 22-gauge wire. 3" long serrated nose reaches into narrow openings to retrieve wires, and concave, serrated jaw tips are ideal for grasping bolt heads. Two integral screw cutters (M4 .125" and M3 .094") cut-off screws that are too long for the job, and two built-in crimpers put the finishing touch on wire connectors.

**#89634 Fujiya Electrician's Plier**  
List \$50.00 ... Our Price **\$44.95**

*Tool is designed for use with copper and tin-coated copper wires only.*



## Hard Wire and Cable Cutter Cuts Cleanly...Eliminates Frayed Ends

Sharp, hardened jaws and 15-to-1 leverage combine to produce a powerful shearing action that cleanly cuts music and spring wire up to 1/16" diameter and wire rope (control cable and picture-hanging wire) up to 3/16" diameter without frayed ends. Blackened steel handle has return spring and vinyl grips. 7-1/2" long.

**#82477 Hard Wire Cutter \$19.95**



## Stainless Steel Box Joint Wire Loop Pliers



Beautifully made, highly polished stainless steel pliers make perfect loops, rings and tight radius bends in wire and strip material. One jaw has a stepped tip for making 3 different radius bends, the other jaw has a matching curved recess, making pliers work like a male/female bending die. Sturdy box joint construction. 5-1/2" to 6" long overall.

**#14483 Large Wire Loop Plier** with 1/8", 3/16" and 1/4" stepped jaw **\$14.95**

**#14484 Small Wire Loop Plier** with 3/32", 1/8" and 3/16" stepped jaw **\$14.95**

**#50295 BEST BUY!** Set of both Wire Loop Pliers. List \$29.90 ... Our Price **\$24.95**

## Miniature Swivel-Head Precision Bench Vise is Ideal for Makers

Made entirely of steel and aluminum, this high-quality vise is engineered to securely grip items of almost any shape at virtually every angle. With a compact footprint of only 2.75" wide x 3.5" long and standing 4" high, this solidly-built vise weighs just over 1 lb., allowing it to hold a variety of items without tipping. Spring-loaded, perfectly square machined steel jaws glide along steel pins to a maximum capacity of 0.75" x 0.625" deep. The head assembly is mounted to a steel ball swivel which can be rotated quickly to the exact position to suit your project, then locked down with the lever. Ten holes in the top of the 0.75" x 0.375" jaws accommodate the included steel pins, allowing the vise to hold irregularly-shaped items.

**#91059 Mini Precision Bench Vise \$54.95**



## Little Mini Vise Holds Odd Shapes Gently, Yet Securely

Ideal for holding small, odd-shaped parts while drilling, filing, painting, carving, sanding, grinding, etc. Non-marring plastic pins can be placed in different locations to conform to parts. Or, remove pins and use as a conventional vise. Jaws are 1-3/4" wide x 1/2" deep; 3/4" capacity. 12 pin holes.

**#80769 Little Mini Vise \$16.95**



## Ultrafine Needle Point Plier Works Like Tweezers

This beautifully made tool is used by surgeons to remove glass, wood and metal splinters from accident victims and when tweezers won't give them a strong enough grip. You'll use them when you need an extra fine needle nose plier for gripping the smallest miniature items and for making tiny bends in wire and strip metal. Made of polished, surgical quality stainless steel with box joints and spring return. 6" long overall.

**#60720 Surgeon's Splinter Forceps \$24.95**



## Parallel Jaw Pliers Hold Like No Others



Parallel jaw pliers have a special hinge that holds the jaws parallel to each other. So, objects being held won't slip out of your grasp like they do with standard plier's angled jaws. Smooth-faced jaws won't mar, and the double-jointed hinge exerts a vise-like grip with easy hand pressure. In a pinch, you can also use these pliers to grasp hex-head bolts without damage. Made of nickel-plated steel with blackened steel jaws or brass lined jaws. Grip range: 0 to approx. 3/8"; overall length 5".

**#85932 Flat Nose Parallel Jaw Plier** with straight jaws and 1/4" wide tips **\$24.95**

**#85931 Chain Nose Parallel Jaw Plier** with tapered jaws and 3/32" wide tips **\$19.95**

**#86632 Brass Lined Plier** allows for non-marring bending and gripping of delicate parts. Lining is 1/4" wide and 7/8" long. Exceptional quality with spring-action handles. **\$24.95**

**#88140 BEST BUY!** Set of all 3 Parallel Jaw Pliers. List \$70.00 ... Our Price **\$59.95**

## #85161

### Non-Scratch Plier

Use this special plier when you want to get a grip on things without ruining the finish. Nylon inserts embedded in the jaws of this steel plier protect gripped objects from damage. Eight-step adjustment with spring loaded pivots grips objects up to 1-3/4". Includes comfortable rubber handle covers. Ideal for flywheels and other R/C model assembly and maintenance. Made in Japan. List \$50.00 ... Our Price **\$39.95**





**A Micro-Mark Exclusive! 2 Years in Development!**



## Make Your Own Photo-Etched Parts with Pro-Etch!

Nothing adds the WOW factor to your models and miniatures like precision-crafted photo-etched metal details...and now, with the revolutionary Pro-Etch System, you can make them right at home.

This is a true photo-resist metal etching system that employs advanced technologies and materials previously available only to industrial users. It uses your computer, an inkjet printer, and materials included in the system to achieve incredibly fine results. Virtually any small item that can be made from a flat piece of metal can be created with the Pro-Etch System in a fraction of the time it would take using other tools and methods (if it could be done at all). You can even create sophisticated 3-dimensional objects with a combination of careful design and folding of the flat photo-etched pieces. In almost no time you'll be making precision metal parts with fine-line details you never thought possible.

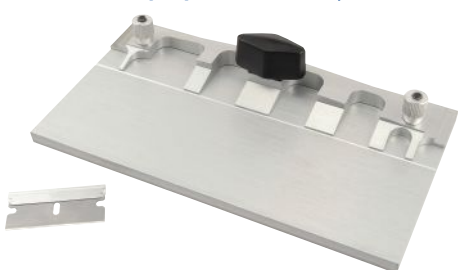
**Set includes:** specially developed, high resolution, inkjet film (two, 8-1/2" x 11") • Photo-resist material (one, 19" x 12") • Brass and stainless steel sheet metal (one each, 6" x 12") • Photo-resist laminating machine and carrier sheets • Exposure frame and clamps • Sodium Hydroxide\* developing/stripping solution (16 oz) • Plastic developing/stripping tanks • Etching tank with circulating pump • Ferric Chloride\* etchant solution (16 oz) • Metal-prep pad, plastic tweezer, measuring cup, apron, goggles and gloves • How-To manual to guide you through each step of the process. *See our website for refills.*

**Note:** Maximum overall size of etched sheet: 3" square x .010" thick.

**#83123** Pro-Etch System (ships by ground to 48 contiguous U.S. only). List \$180.00 ... Our Price **\$119.95**

*\*Note: System contains chemicals that are highly caustic. Careful handling of these chemicals and good ventilation are prerequisites for the use of this system. Not for use with aluminum.*

## If You're Serious about Photo-Etch, Step Up to Etch Buddy



**A Micro-Mark Exclusive!**

**Etch Buddy** is a superior-quality tool that you use to fold, bend and shape photo-etched flat parts into 3D objects with unparalleled precision and efficiency. It has a wide assortment of finger widths and contours to accommodate all shapes and sizes of photo-etch sheet up to 6-1/2" long. The top plate may be rotated 180° for long, straight bends. *Note: For full length bends, we recommend substituting a metal ruler, such as #10115 (sold separately), for the blade.* Unique features ensure perfectly square bends every time. Beautifully made of CNC-machined aluminum.

**#86143** Etch Buddy Photo-Etch Bender  
List \$80.00 ... Our Price **\$49.95**



## A Great Mini Plier Value

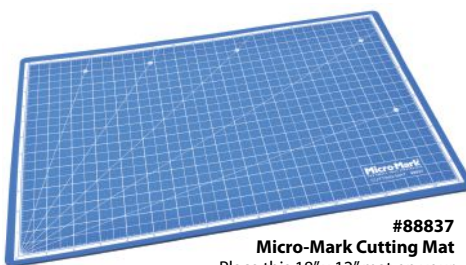
**A Micro-Mark Exclusive!**

Because we purchase in large quantities, we convinced the manufacturer to make our Miniature Plier Set exclusively for us in the price / quality / style combination we know our customers want. All pliers are made of drop forged, high carbon steel with foam cushioned handles and spring return. **Six-piece set includes:** end nipper, needle nose, flat nose, round nose, diagonal cutter and bent nose. Pliers range from 4" to 5-1/4" long. Needle and bent nose pliers have serrated jaws for better grip. **#80974** 6-piece Plier Set **\$39.95**



**#86325** Soft Touch Model Mat prevents damage as you work on your projects. Textured closed-cell foam keeps models from sliding around while you work. 12" x 18" x 3/8" thick. **\$16.95**

*Model, tools and supplies not included.*



**#88837**

**Micro-Mark Cutting Mat**

Place this 18" x 12" mat on your workbench or even your dining room table and never worry about knife damage again. **\$19.95**

## Semi-Flat Retractable No.11 Craft Knife Can't Roll Away

Pick up this unique tool and you'll feel the quality immediately. Unlike other precision craft knives, this unique design is retractable with perfect cutting angles at each stop including 45° and 60°. Only 5 mm thick, suitable for precise work for left- and right-handed users. Requires #89455 replacement blades. **#89355** Nova Retractable Craft Knife **\$12.95**



**#89455** Nova No.11 Blades, 120 Pack Designed specifically for use with our #89355 Retractable Craft Knife and packaged in a money-saving 120 pack storage box. **\$17.95**

## Retractable Cutter Allows for Adjustable Blade Exposure

Nova Slim Adjustable Auto Retractable Cutter allows you to make precision cuts every time with adjustable blade exposure down to 0.1 mm. Blade length adjusts from 0 to 40 mm and is safely hidden when not in use (user must hold slider button while cutting).

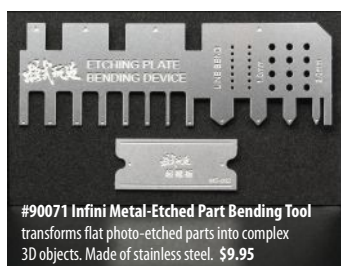


*Requires #89454 replacement blades.*

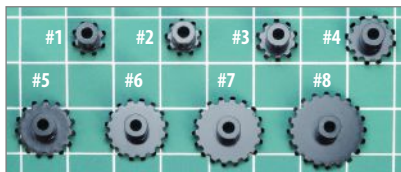
**#89356** Nova Safety Slim Adjustable Auto Retractable Cutter **\$9.95**

**#89454** Nova 30° Pointed-Tip, 9 mm Blade, Package of 10 Designed specifically for use with our #89356 Slim Adjustable Auto Retractable Cutter. Made of stainless steel, the blade is durable yet flexible. Package of ten. **\$5.95**

## Mini Photo-Etch Bender from Infini Models



**#90071** Infini Metal-Etched Part Bending Tool transforms flat photo-etched parts into complex 3D objects. Made of stainless steel. **\$9.95**



Use these sprockets and chain to power animated displays, robotics, model trains and other miniature mechanisms. They're made of tough, self-lubricating, durable acetal resin and easy to use. All sprockets are designed to press-fit on a 1/8" diameter shaft\* and the chain links snap apart for easy adjustment.

*\*Knurling or pinning is recommended.*

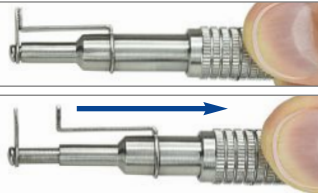
## #84738K 8-Piece Mini Sprocket Set

Includes 1 of each sprocket shown. All sprockets are 5/16" deep. Hubs are 1/4" outside diameter, except for #1, which is .236". List \$30.00 **\$19.95**

NO.	TEETH	PITCH DIA.	DIA. OVER CHAIN
#1	8	.318"	.402"
#2	9	.356"	.430"
#3	10	.394"	.480"
#4	12	.471"	.550"
#5	15	.586"	.675"
#6	16	.625"	.720"
#7	18	.702"	.785"
#8	20	.780"	.865"



**#84791** Mini Chain **\$19.95 per foot**  
Pitch .1227; width .162; thickness .082;  
Sold only in increments of one foot.

**Spring-Loaded Small Parts Holder**

Borrowed from the dental industry, this small spring-loaded parts holder opens and closes easily with one hand. Small parts are securely held in the broad, flat jaws while you paint, place, assemble, etc. The tool can also be held in a vise to free up both hands for various operations. The lightly serrated, 3/16"-wide jaws open to 1/4". Made of high-quality stainless steel, 7" long overall with a 3/8" diameter handle.

**#90699 Spring-Loaded Flat-Blade Parts Holder \$19.95**

**Stainless Steel Tweezer Set**

These stainless steel tweezers are made exclusively for Micro-Mark by a manufacturer of surgical quality instruments. Beautifully polished, all purpose set lets you grasp, position and manipulate the smallest of items. Made of stainless steel, gives you a lifetime of service. Set contains 4-1/2" sharp point, 4-3/4" flat point, 6" blunt point, 6" bent sharp point, 6-1/2" cross locking tweezers.

**#60365 5-piece Stainless Steel Tweezer Set \$24.95**

**Stainless Steel Mini Tweezer Set**

A nicely made, never-rust set that's about 40% smaller than other sets we sell, making them ideal for handling micro size items. Includes self locking, needle point, angle point and flat smooth point. The flat point is good for applying decals and other items that could be marred by sharp points. All tweezers are approx. 4-1/2" long.

**#60699 Mini Tweezer Set**  
List \$18.00 ... Our Price **\$13.95**

**Professional Quality Tweezers – Now in Titanium!**

With most of our selection coming from the jewelry, watchmaking and dental trades, these tweezers are among the finest quality you'll find anywhere. All except #60904 and #19110 are now available in titanium plated versions.



**Swiss-Style Watchmaker's Tweezer**  
Fine, smooth points. 4-5/8" long.  
**#19101** Stainless steel **\$7.95**  
**#88577** Titanium plated **\$12.95**



**Curved Tip Swiss-Style Watchmaker's Tweezer**  
Smooth points. 4-5/8" long.  
**#19102** Stainless steel **\$8.95**  
**#88578** Titanium plated **\$12.95**



**Boley Style GG Tweezer**  
Hollow, very light spring tension. Smooth points. 4-3/4" long.  
**#19103** Stainless steel **\$9.95**  
**#88579** Titanium plated **\$13.95**



**Double Bend Dental Tweezer**  
Fine serrated points. 6-1/2" long.  
**#19105** Stainless steel **\$12.95**  
**#88580** Titanium plated **\$14.95**



**Slide Lock Soldering Tweezer**  
Medium sharp points. 4-3/4" long.  
**#19106** Stainless steel **\$7.95**  
**#88581** Titanium plated **\$14.95**

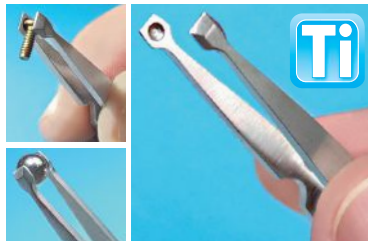
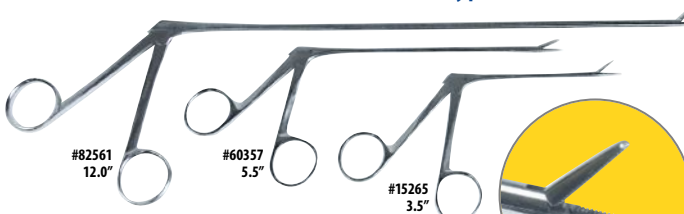
Giant long reach tweezer. Serrated rounded points. 12" long.

**#81010** Stainless steel **\$13.95** **#88589** Titanium plated **\$24.95**

**Pearl Tweezer – The Best Way to Grip Small, Irregular Objects**

Spherical indentations in the tips of our Pearl Tweezer securely grip round and irregularly contoured small objects, preventing them from flying off into space and disappearing forever. Perfect for placing miniature hardware and tiny detail parts. Made of satin-finish stainless steel; approx. 4-1/2" long.

**#82426** Pearl Tweezer **\$14.95**  
**#88590** Titanium Plated Pearl Tweezer **\$19.95**

**Crocodile-Action Ear Polypus**

The Polypus is a brilliantly designed surgical instrument for removing foreign objects and performing surgery inside the ear. Unlike a hemostat, only the "crocodile" jaws at the very end open. You can actually pass the end through a very small hole and still open and close the jaws! An extremely versatile tool for placement and retrieval of micro-size objects. Use for ship model rigging, dioramas, dollhouse miniatures, model railroad car interiors and any other micro-manipulation. Precision instruments crafted of highly polished stainless steel.

**#15265** Ear Polypus (Narrow part of "neck" reaches 2-1/2"; fits thru a 5/32" hole) **\$24.95**  
**#60357** Ear Polypus (Narrow part of "neck" reaches 4-1/2"; fits thru a 3/16" hole) **\$29.95**  
**#82561** Ear Polypus (Narrow part of "neck" reaches 10-1/2"; fits thru a 1/4" hole) **\$49.95**

**Universal Cylindrical Tweezer**

Finally, one tweezer that does the job of many! The cylindrically-shaped channels at the tips act as a universal holder, allowing you to grasp and manipulate virtually all types of screws, as well as easily pick up washers, nuts and beads as well. 5/16"-long cylindrical channels run all the way to the tip, allowing you to place items precisely where you need them. Made of non-magnetic stainless steel, approx. 5" in length. Tips grasp objects from 5/64" to 1/2".

**#87119** Universal Tweezer **\$11.95**

**Great Tweezers, Great Price**

Set of 8 tweezers made of acid-proof, anti-magnetic, stainless steel for a lifetime of use. Includes extra fine, fine, angled and long tips. Overall length: 4-1/2" to 5-1/2".

**#84256** 8-piece Tweezer Set **\$19.95**

**Gripster Grabs It with the Push of a Button**

Press the top of this unique tool and 4 slim, stainless steel prongs emerge from the tip. Release, and the prongs close around the object, grasping it securely. Perfect for tasks where fingers can't reach and tweezers aren't strong enough. Set includes two Gripsters, one 4-1/2" long and one 6-1/4" long. Prongs open to 5/8" and extend 1/2" from tool tip.

**#88022** Gripster Set  
List \$18.00 ... Our Price **\$9.95**

**Special Tweezer Places Objects Without Damaging Fine Details**

Stainless steel tweezer with rubber-coated angled tips are perfect for no-mar, non-slip placement of small, irregularly shaped items, such as the figures shown above. 6" long.

**#83251** Rubber-Tipped Tweezer **\$8.95**



**Micro-Mark® Premier Elite Titanium Plated Micro Chisel and Gouge Sets – Ultimate Carving Tools for the Discerning Craftsperson**

For years, Micro-Mark customers have been asking us for an expansion line to our super-popular 7-Piece Stainless Steel Chisel Set. After much work to develop an exclusive selection, we are proud to introduce The Premier Elite Line of Chisels and Gouges by Micro-Mark. Over a 2-year period, we designed and tested a wide variety of materials, shapes and designs to provide our customers with the best micro hand-chiseling tools on the market in terms of quality, durability and utility. We then secured a manufacturer with decades of experience, capable of meeting or exceeding our requirements for consistently high workmanship. We are pleased to say that we have not been disappointed, and neither will you!

Expertly crafted from premium Japanese and French stainless steels and combined our special titanium plating process, each top-quality chisel and gouge is hand-honed to perfection. Their unique handle design employs a joined deep diamond knurling with lateral channels that provide a positive gripping area for precise control. Unless otherwise noted, each tool is 6-1/2" long with 3/8" diameter handle. Premier Elite chisels feature an extremely low profile of approximately 25°. These exceptional and handsome tool sets will provide the precision and long-life that enthusiasts demand and deserve.

**Introducing our Premier Elite U Gouge and Dogleg V Gouge Sets**

Complementing and expanding our line of Premier Elite tools are these U and V Gouge sets. Both sets are ideal for adding detail, texturing, creating soft curves and delicate undercuts in your projects. These beautifully made gouges are hand-honed on the top and bottom of the cutting edge to provide the very sharpest cuts.

**#88704 Premier Elite 7-piece U Gouge Set**

This set is equivalent to a #8 design, as we consider the #8 to be one of most useful U Gouge styles. U Gouge widths included are approximately: 2.5 mm, 3 mm, 4 mm, 5 mm, 6 mm, 7 mm and 7.5 mm. Each tool is 5-3/4" long. List \$120.00 ... Our Price **\$89.95**

**#88707 Premier Elite 5-piece Dogleg V Gouge Set**

Also known as parting tools, these Dogleg V Gouges include the following approximate widths: 2.5 mm, 3 mm, 4 mm, 4.5 mm and 5.5 mm. Each tool is 6-5/8" long. List \$120.00 ... Our Price **\$89.95**

**#88702 Premier Elite 10-piece Straight Tip Micro Chisel Set**

in widths separated by approximately .5 mm in the following sizes: 0.5, 1.0, 1.5, 2.0, 2.5, 3.0, 3.5, 4.0, 4.5 and 5.0 mm. List \$170.00 Our Price **\$129.95**

**#88701 Premier Elite 10-piece Skew Tip Micro Chisel Set**

in widths separated by approximately .5 mm in the following sizes: 0.5, 1.0, 1.5, 2.0, 2.5, 3.0, 3.5, 4.0, 4.5 and 5.0 mm. List \$170.00 Our Price **\$129.95**

**#88705 Premier Elite 3-piece Specialty Blade Chisel Set**

features the most sought-after angles and shapes for working in places where standard chisels cannot go. Includes "sheep's foot" straight-angled side chisel, needle point angled chisel and concave curved chisel for side removal and pull removal in carvings. List \$45.00 Our Price **\$34.95**



**#88703 Premier Elite 10-piece Left and Right Radius Chisel Set** with widths separated by approximately 1 mm in the following sizes for both left and right removal: 1, 2, 3, 4 and 5 mm. The range provided allows easy carving of slow and tight-area curved forms on flat surfaces **and**, since the working angle is from the side, it enables you to carve raised (convex) and recessed (concave) sloped sections as well, such as carving ears in a figure, for example. These shapes cannot be carved with straight or skewed chisels since the direction of removal is forward only. List \$160.00 Our Price **\$124.95**



**#88706 Premier Elite 5-piece Dogleg Chisel Set** in widths of 1, 2, 3, 4 and 5 mm, provide a higher angle of stock removal for deeper, quicker carving than standard straight chisels. The location of the bevel is ideal for finishing flat recesses and backgrounds on a relief carving where clearance is limited. List \$78.00 ... Our Price **\$69.95**

**#89589 Titanium Plated "B&W" Micro Squeeze Scissor Set**

These unique scissors provide the most delicate, precise control imaginable, even in awkward positions. Fingertip squeezing action actuates the ultra-sharp, super-hard, 60° angled offset blades for the finest cuts. Made of Japanese surgical stainless steel combined with our special titanium plating process, these professional-quality, long-lasting scissors will be your go-to choice for precision cutting from the moment you try them. The "B" style scissor is 2-1/2" long; the "W" style is 4-3/8" long; cutting tips of both are 3/8" long. **\$44.95**

**#89775 Specialty Tool Protective Case**

Synthetic leather zippered tool case stores, protects and transports up to 15 of your most prized tools. **\$14.95**



## The All-In-One Carving Set You've Been Asking for is Here!



**#88708 Premier Elite 15-piece Micro Chisel and Gouge Set** This exceptional and most useful 15-piece collection of our Premier Elite Chisels and Gouges allows the user to jump right into the world of wood carving. These beautiful tools are sure to become your favorites. Set includes three Skew Chisels, 1 mm, 2.5 mm and 4 mm; three Straight Chisels, 2 mm, 3 mm and 5 mm; two Radius Chisels, 3 mm left and 3 mm right; one Specialty Needle Point Angled Chisel; two Dog Leg Straight Chisels, 1 mm and 3 mm, two #8 U Gouges, 2 mm and 4 mm; and two V Gouges, 2 mm and 4 mm. This exclusive set also includes a custom-designed, cushioned and zippered case for safe-keeping and transporting in style. List \$235.00 ... Our Price **\$179.95**

## The Ultimate Titanium Tweezer Set is Now Available!



**#90817 Micro-Mark 15-piece Titanium Tweezer Set** This ultimate collection contains virtually every tweezer you would reach for as a maker, DIYer, hobbyist, and professional. Tip styles include straight fine point, curved fine point, 45°, 90°, blunt tip, locking, flat, universal, bead or pearl, long, short, micro fine point and offset V. Each tweezer is beautifully crafted with Japanese and French stainless steels and plated with vibrant cool-blue Titanium for amazing luster and long life. As a bonus, this set is provided in an attractive, high-quality, zippered, embossed leatherette case. Interior elastic strap holds each tweezer securely for safe transport and storage for a lifetime of use. List \$290.00 ... Our Price **\$169.95**



**#88578 Curved Watchmaker's Tweezer**  
Titanium plated. Smooth points. 4-5/8" long. Bend lets you rest your hand on a workbench while using. **\$13.95**



**#88581 Slide Lock Soldering Tweezer**  
Titanium plated for luster and durability. Medium sharp points. 4-3/4" long. **\$14.95**



**#88577 Swiss Style Watchmaker's Tweezer**  
Titanium plated for luster and durability. Fine, smooth points. 4-5/8" long. **\$13.95**



**#88579 Boley Style GG Tweezer**  
Titanium plated for luster and durability. Hollow, very light spring tension. Smooth points. 4-3/4" long. **\$13.95**



**#88582 Cross Locking, Self-Closing Tweezer**  
Titanium plated for luster and durability. Serrated points. 6-1/2" long. **\$19.95**



**#88585 Micro Tweezer, Straight Tips**  
Titanium plated for luster and durability. Fine serrated points. Approx. 4" long. **\$12.95**



**#88586 Micro Tweezer, 45° Curved Tips**  
Titanium plated for luster and durability. Fine serrated points. Approx. 4" long. **\$14.95**



**#88587 Micro Tweezer, 90° Curved Tips**  
Titanium plated for luster and durability. Fine serrated points. Approx. 4" long. **\$14.95**



**#88588 Flat / Smooth Decal Tweezer**  
Titanium plated for luster and durability. For perfect decal placement. 4-1/2" long. **\$13.95**



**#88580 Double Bend Dental Tweezer**  
Titanium plated for luster and durability. Fine serrated points. 6" long. **\$14.95**

### #88591 4-piece Titanium Plated Super-Fine Tweezer Set \$89.95

With the luster and durability of titanium, these super-fine-tipped, non-serrated forceps/tweezers have perfectly mating halves for ultimate precision. Set includes:

2 Dynamic Blue Titanium Forceps, one featuring a super-fine, shouldered and angled tip, weight-reducing oblong cut-out, and grooved gripping area; the other is a Boley-style, featuring a long nose and super-fine, non-shouldered, pointed tip. Dynamic Blue Forceps are 3-5/8" and 4-3/4" long overall.

2 Rose Gold Titanium Forceps, each with 3 pairs of stamped holes in the handle for reduced weight and non-slip grip. Raised 1/4" flat shoulders inside the tip halves provide extra gripping power. Rose Gold Forceps are 3-1/2" and 4-1/4" long.



**#88589 Giant Long-Reach Tweezer**  
Titanium plated for luster and durability. Serrated tips. 12" long. **\$24.95**



### Surgical Hemostats, Titanium Plated

Originally made for surgeons, hemostats are now used extensively by makers. Use these small, light duty hemostats as a super slim needle nose plier, clamp, heat sink, vise, etc. Quality box joint construction. Titanium plated for luster and durability. Approx. 5" long. Choose tip style below:

**#88583 Surgical Hemostat, Straight Tip \$14.95**



**#88584 Hemostat, Curved Tip \$15.95**



### #88590 Pearl Tweezer

Spherical indentations in the tips of our Pearl Tweezer securely grip round or irregularly contoured objects so you can easily place them in the exact position you need. Titanium plated for luster and durability. Approx. 4-1/2" long. **\$22.95**





# Micro-Mark® Miniature Lumber Yard

All Micro-Mark miniature lumber is clear, kiln-dried No.1 grade. Wood sheets are micro-sanded both sides. Siding and moldings are precision milled and require no sanding. For cutting sheet stock into narrow strips, we recommend Table Saw #87775 for thicknesses up to 1/4". For sizes thicker than 1/4", and for plywood, use the MicroLux® Tilting Arbor Table Saw, #80463.

**Our siding, hardwoods and plywood are also ideal for laser cutting!**

BIRCH PLYWOOD 12" Wide x 24" Long 1st Quality Aircraft Grade, Good 2 Sides Price is PER PIECE		
Thickness	Item #	Price ea.
1/64"	50193	\$24.95
1/32"	50194	\$14.95
1/16"	50195	\$16.95
3/32"	50196	\$24.95
1/8"	50197	\$28.95
3/16"	50198	\$14.95
1/4"	50199	\$19.95

### Hardwood Dowel Value Pack

Includes 10 each of 1/8", 3/16", 1/4" and 3/8" diameter (9" long), plus 20 pieces of 1/16" diameter (12" long).

**#86409 Wood Dowel Assortment**  
(60 pieces...a \$20.00 value!) Our Price **\$13.95**

**You Need Them and Now We've Got Them!**

All pieces enlarged to show detail.

These double-sided basswood Corner Posts are nearly impossible to make without a specially-designed, one-of-a-kind mill, so we did the heavy lifting for you! Use them for virtually seamless joining of 1/16" and 3/32" basswood sheets at right-angle corners in scratch-built and kit-bashed model structures, along with many other woodworking projects.

**Five 24" long pieces per package.**  
Note: use 1/8" (#50113) for joining 1/16" sheets and 3/16" (#50114) for joining 3/32" sheets.

**#50113 Corner Posts, 1/8", 5 pieces \$11.95**  
**2 or more \$9/pkg.**

**#50114 Corner Posts, 3/16", 5 pieces \$13.95**

### #83557 Basswood Assortment

8 pieces each in 23 most popular sizes from 1/32" to 1/4" for building structures, railcar loads, and hundreds of other uses. 184 pieces, 12" long.

**\$79.95**

**MILLED BASSWOOD SIDING**  
3-1/2" Wide x 24" Long  
x 1/16" Thick

Use for dollhouses, model railroads, ship models, architectural models, dioramas and more.

**\$19.95/pkg. of 3 pieces**

Item #	Spacing
<b>A. Clapboard</b>	
60796X3	1/32"
60797X3	1/16"
60798X3	3/32"
60799X3	1/8"
60800X3	3/16"
60801X3	1/4"
60802X3	3/8"
60803X3	1/2"
<b>B. Corrugated Siding/Roof</b>	
60806X3	.040"
60807X3	1/16"
60808X3	3/32"
60809X3	1/8"
<b>C. Scribed Sheathing</b>	
60810X3	.025"
60811X3	1/32"
60813X3	3/64"
60814X3	1/16"
60815X3	3/32"
60816X3	1/8"
60817X3	3/16"
60818X3	1/4"
60819X3	3/8"
60820X3	1/2"
<b>D. Board &amp; Batten</b>	
60821X3	1/16"
60822X3	3/32"
60823X3	1/8"
60824X3	3/16"
60825X3	1/4"
60826X3	3/8"
60827X3	1/2"

## PRECISION MILLED BASSWOOD STRIPS

24" Long			
Size (Thick x Width)	Item #	Pieces Pkg.	Price/Pkg.
1/32" x 1/32"	80001	10	\$9.95
1/32" x 1/16"	80002	10	\$9.95
1/32" x 3/32"	80003	10	\$9.95
1/32" x 1/8"	80004	10	\$9.95
1/32" x 5/32"	80005	10	\$9.95
1/32" x 3/16"	80006	10	\$9.95
1/32" x 1/4"	80007	10	\$11.95
1/32" x 5/16"	80008	10	\$12.95
1/32" x 3/8"	80009	10	\$16.95
1/32" x 1/2"	80010	10	\$18.95
1/32" x 3/4"	80011	10	\$18.95
1/32" x 1"	80012	5	\$11.95
1/32" x 2"	80013	5	\$19.95
1/16" x 1/16"	80014	10	\$9.95
1/16" x 3/32"	80015	10	\$9.95
1/16" x 1/8"	80016	10	\$9.95
1/16" x 3/32"	80017	10	\$9.95
1/16" x 3/16"	80018	10	\$11.95
1/16" x 1/4"	80019	10	\$14.95
1/16" x 5/16"	80020	10	\$14.95
1/16" x 3/8"	80021	10	\$17.95
1/16" x 1/2"	80022	10	\$19.95
1/16" x 3/4"	80023	10	\$23.95
1/16" x 1"	80024	5	\$15.95
1/16" x 2"	80025	5	\$23.95
3/32" x 3/32"	80026	10	\$9.95
3/32" x 1/8"	80027	10	\$9.95
3/32" x 3/32"	80028	10	\$9.95
3/32" x 3/16"	80029	10	\$11.95
3/32" x 1/4"	80030	10	\$14.95
3/32" x 5/16"	80031	10	\$16.95
3/32" x 3/8"	80032	10	\$19.95
3/32" x 1/2"	80033	10	\$23.95
3/32" x 3/4"	80034	10	\$24.95
3/32" x 1"	80035	5	\$16.95
3/32" x 2"	80036	5	\$24.95
1/8" x 1/8"	80037	10	\$9.95
1/8" x 5/32"	80038	10	\$12.95
1/8" x 3/16"	80039	10	\$12.95
1/8" x 1/4"	80040	10	\$14.95
1/8" x 5/16"	80041	10	\$16.95
1/8" x 3/8"	80042	10	\$19.95
1/8" x 1/2"	81287	10	\$24.95
1/8" x 3/4"	81288	10	\$29.95
1/8" x 1"	80045	5	\$17.95
1/8" x 2"	81289	5	\$24.95
3/16" x 3/16"	81290	5	\$9.95
3/16" x 1/4"	81291	5	\$9.95
3/16" x 5/16"	81292	5	\$11.95
3/16" x 3/8"	81293	5	\$12.95
3/16" x 1/2"	80051	5	\$14.95
3/16" x 3/4"	80052	5	\$17.95
1/4" x 1/4"	80055	5	\$11.95
1/4" x 5/16"	80056	5	\$11.95
1/4" x 3/8"	80057	5	\$14.95
1/4" x 1/2"	80058	5	\$17.95
1/4" x 3/4"	80059	5	\$17.95
1/4" x 1"	81294	2	\$11.95
1/4" x 2"	81295	2	\$14.95
3/8" x 3/8"	80062	5	\$14.95
3/8" x 1/2"	80063	5	\$14.95
1/2" x 1/2"	81296	2	\$8.95
1/2" x 3/4"	81297	2	\$9.95

## HARDWOOD SHEET

All 24" Long - Basswood - 4" Wide  
Mahogany and Cherry - 3" Wide

BASSWOOD - 3 Sheets Per Package		
Thickness	Item #	Price/Pkg.
1/32"	50101	\$14.95
1/16"	50102	\$18.95
3/32"	50103	\$18.95
1/8"	50104	\$23.95
3/16"	50105	\$23.95
1/4"	50106	\$24.95
5/16"	50107	\$33.50
3/8"	50108	\$35.95
BASSWOOD - 1 Sheet Per Package		
1/2"	50109	\$18.95
3/4"	50110	\$23.95
1"	50111	\$23.95
2"	50112	\$29.95
MAHOGANY - 2 Sheets Per Package		
1/32"	82263	\$14.95
1/16"	82264	\$14.95
3/32"	82265	\$18.95
1/8"	82266	\$19.95
3/16"	82267	\$23.95
1/4"	82268	\$28.95
CHERRY - 2 Sheets Per Package		
1/32"	81673	\$14.95
1/16"	81674	\$16.95
3/32"	81675	\$17.95
1/8"	81676	\$19.95
3/16"	81677	\$23.95
1/4"	81678	\$28.95

## SHIP MODEL DECK SHEETS

3" x 22" x .050" Thick Price is PER PIECE  
Individual basswood strips glued-up with black glue to simulate caulking. Very realistic and a great time saver.

Plank Width	Item #	Price ea.
1/16"	60857	\$24.95
3/32"	60858	\$24.95
1/8"	60859	\$24.95
3/16"	60860	\$24.95

## #81847 Micro Broaches Set

List \$22.00  
Our Price **\$18.95**

Great for micro filing, shaping, carving and creating the finest details in wood, resin and plastic. Stainless steel spiral teeth never rust or clog and are contoured to remove material on the pull stroke. Set includes one tapered to .020" dia.; the other to .033" dia. Wood handles are 3/8" dia. x 4" long. Total length 5".

### Duplicating Jig for Cutting Strip and Tube Stock

V-shaped groove in precision-machined fixture holds stock while cutting with a razor saw. Integral slot guides saw blade for perfectly square cut. Sliding gauge locks in place for cutting multiple pieces in lengths up to 3". Works on any shape stock up to 1/4" in any one dimension. Bolt to bench or hold in vise. Made of blackened steel. Razor saw not included.

**#84388 Duplicating Jig \$29.95**

## Miter Master Makes Clean, Sharp Miters in Plastic and Wood

An excellent tool for ship modelers, miniaturists, airplane modelers, model railroaders and picture framers! Cuts miniature molding, model railroad timbers, dowels, plastic and wood structural shapes, strip stock, ship model planking, even full size picture frame molding, and it can also cut your assembly time in half. Razor sharp blade cuts across the grain with a clean, smooth shaving action and it's as easy to use as a pair of scissors! Has left and right hand, 45° miter fence and scored marks for lining up stock for other angles. Precision made nickel-plated steel handles and aluminum alloy anvil. Will cut stock up to 1/2" thick x 1-1/2" wide. An industrial quality tool originally made to cut automobile interior trim.

**#50348 Miter Master \$34.95** **#50349 Extra Blade \$16.95**

### Miter Box and Saw for Precision 45° Cuts in Wood and Soft Metal

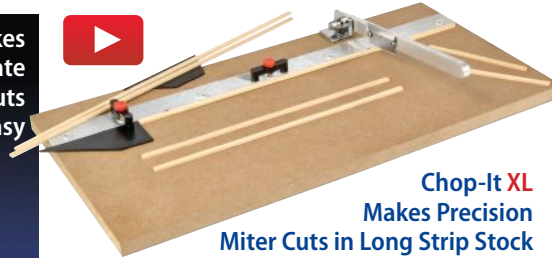
Aluminum miter box with 1/16", 3/32", 1/8", 5/32", 3/16" and 1/4" slots to hold narrow strips of wood or metal. Two 45° and one 90° cutting slots, machined for accuracy. 3/4" x 1-3/4" capacity. 5-1/4" long. Includes handle and 1-1/4" deep, 5" long, 46 tpi steel blade.

**#22114 Miter box/saw set \$24.95** **#81862X2 Extra 24 tpi blades (2) \$10.95**  
**#22115 Miter box without saw \$14.95** **#81860X2 Extra 46 tpi blades (2) \$10.95**  
**#36117 Saw/blade handle \$6.95** **#22118X2 Extra 54 tpi blades (2) \$11.95**





**Chop-It Makes Accurate Miter Cuts Easy**



**Chop-It XL Makes Precision Miter Cuts in Long Strip Stock**

One of the most useful tools for the hobbyist working in wood or plastic strip material. Make perfect, feather-free miter cuts every time with the 30°, 45° and 60° guides included. An adjustable stop permits the exact duplication of pieces. Excellent for model ship planking, model railroad structures, plus hundreds of other uses. Comes completely assembled and includes 3 blades. Base is 7-1/2" x 7-1/2". Cuts material up to 3/32" thick.

#84046 Chop-It \$39.95 #14292 Razor Blades (100) \$12.95



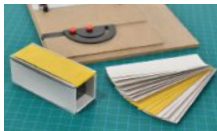
**Sand-It Gives Precision Finish on Small Parts**



Sand-It is designed to give you a quick, precision finish on wood, plastic and metal sheet and strip stock. Also works beautifully to square-up cut ends of brass tubing. Use whenever you need a fine, precise fit of parts, such as inlay work, marquetry and more. Works on material up to 4" wide x 1" thick x any length. 4-sided sanding block lets you have four different grits mounted at the same time. Includes pre-set angle guides for 30°, 45°, 60° and 90° plus protractor-type guide for any angle in between.

#84048 Sand-It \$35.95

#86620 20-piece Sanding Strip Set includes 5 each of 180, 220, 320 and 400 grit strips. \$11.95



**A Micro-Mark Exclusive!**



**Miter-Rite is Precision in Miniature**

Next to our powered Miter/Cut-Off machine, this is the finest miniature tool you can buy for making perfect angle cuts in wood, plastic and soft metal. Cuts are adjustable in 1° increments with a range of 65° on each side of 90°. Blade holder keeps blade absolutely perpendicular to the base, assuring straight and accurate cuts. Made of tough "football helmet" Cycloc plastic for a lifetime of use. Comes with one 54 tpi saw blade. Cuts stock up to 5/8" thick x 2" wide x any length.

#15215 Dobson Miter-Rite \$39.95

#22118X2 Replacement Blades (2) \$11.95

## Razor Blades...with Teeth!

Special-designed razor-thin blades are actually ultra fine saws with 70 teeth per edge and only .005" thick. You'll get the finest, smoothest cuts in plastic, resin and wood without leaving large gaps in the material. You can even cut 1/32" off the end of brass tubing with ease. Double-edged for twice the life. Package of 5 blades. #85853 Ultra Fine Saw Blades (5) \$17.95

#86084 Ergonomically contoured Wood Handle for Ultra Fine Saw Blades (#85853, sold separately) assembles in seconds and is comfortable to use. Handle is 6-1/4" long. \$11.95 3 or more \$7.95 ea.



## World's Smallest Miter Box?

Make the finest 30°, 45° and 90° miter cuts in wood, metal and plastic strips, rods and tubes up to .25" wide x any length! Excellent for cutting brass tubing...especially very short pieces used for mast bands and other items. Includes adjustable stop for making duplicate cuts quickly and easily. Works best with our Ultra Smooth Saw Blades (#85853, available separately, above). Approx. 5-5/8" long x 5/8" wide x 3/16" high. #86407 Extra-long Micro Miter Box \$19.95

#86407K Micro Miter Box Super Value Package includes #86407 Micro Miter Box, #86084 Wood Handle and 5 Ultra Fine Saw Blades for one special all-inclusive price. Value \$45.85 Super Buy \$39.95



#86407K Micro Miter Box Super Value Package shown

## #89157 Altec Medium Viscosity Super Glue for Wood

Finally, a super glue specifically formulated to instantly and securely bond wood to wood! Also great for leather and other porous materials. 1 ounce applicator bottle. \$11.95

Note: As with other super glues, safe handling is important. See our website for details.

Ships by ground to 48 contiguous U.S. only.



## Modeler's Multi-Tool Does it All!



First, this is the most comfortable knife handle you've ever used and the adjustable chuck will hold every hobbycraft blade made. Second, it's the finest pin vise we've ever seen. The brass chuck and 4 collets will hold drill bits up to #41 (.096"). Closes to zero. Third, it's an indispensable hand vise for holding micro-size parts while filing, drilling, cutting and more. The knurled brass tensioning knob at the back end draws all items tightly into the chuck. Handle and vise head are molded nylon. All other components are solid brass. 1/2" x 5" handle. 1/2" vise capacity. A beautifully made tool!

#60531 Modeler's Multi-Tool List \$50.00... Our Price \$39.95



**Wood Strip Cutter with Micrometer Accuracy**

Cut wood strips quickly and easily with this precision cutter. One turn of the vernier hand wheel moves the blade in precise 1/32" increments. Cuts strips up to 1/2" wide. Uses standard #11 blades for Balsa or #2 blades for harder woods. Made of tough glass-filled nylon.

#14568 Wood Strip Cutter \$15.95

#14360 #11 Blade (15) \$7.95

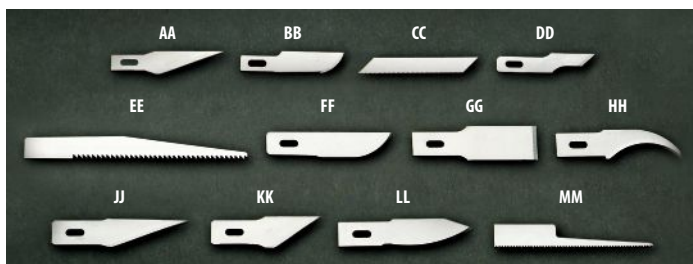
#14362 #2 Blade (15) \$10.95



#89703 Assorted Laser Cut Shapes and Materials, by Scientific Let your creativity run wild! This random collection of laser-cut shapes and raw materials can be glued, sawn, drilled, cut, painted, decorated and added to a multitude of projects. You get approx. 1/4 lb. of assorted "treasures" per bag. Note: no two bags are ever alike and this image may or may not be indicative of what you get. \$8.95



Precision cutting blades and knives for hobbycrafts, graphic arts and household use. All blades are crafted of the highest quality carbon steel with hard, sharp points and finely honed cutting edges.



### Razor Sharp Blades for Use with No. 1 Knife Handle

- AA. #14360 No. 11 Blade (15) **\$7.95** CC. #36106 No. 13 Saw Blade (5) **\$5.95**  
 AA. #14178 No. 11 Blade (100) **\$29.95** DD. #50279 No. 16 Blade (15) **\$10.95**  
 BB. #36102 No. 10 Blade (5) **\$5.95**

### Razor Sharp Blades for Use with Nos. 2, 5 or 6 Knife Handles

- EE. #14366 No. 27, 3" Saw Blade (5) **\$8.95** JJ. #14362 No. 2 Blade (15) **\$10.95**  
 JJ. #14363 No. 2 Blade (100) **\$44.95**  
 FF. #36113 No. 22 Blade (5) **\$5.95** KK. #50280 No. 24 Blade (15) **\$11.95**  
 GG. #36111 No. 18 Blade (5) **\$4.95** LL. #14365 No. 25 Blade (5) **\$9.95**  
 HH. #14367 No. 28 Blade (5) **\$14.95** MM. #36110 No. 15 Saw Blade (5) **\$9.95**

### Micro Saws...

#### #11 Blades with Teeth!



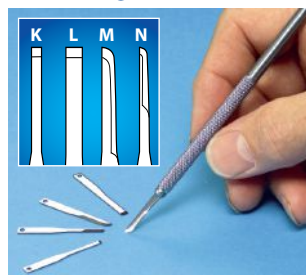
Excellent tools for cutting plastic, soft metal and wood in tight places and when a knife blade just won't cut it. Set includes 6 blades...two .010" thick x 40 tpi; two .010" thick x 30 tpi; and two .015" thick x 24 tpi...and 5" long aluminum handle. Blades are made of premium quality steel.

#### #14345 Micro Saw Set **\$12.95**

#### Micro Saw Blades

- #14346X2 .010" x 40 tpi, package of four **\$7.95/pkg.**  
 #14347X2 .010" x 30 tpi, package of four **\$7.95/pkg.**  
 #14348X2 .015" x 24 tpi, package of four **\$7.95/pkg.**

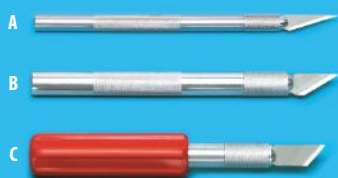
### Micro Knife Handle Holds the World's Smallest Surgical Blades



Blades used for micro-surgery are held in a super thin knife handle only 4-1/4" long x 3/16" diameter. Use for cutting, carving and chiseling the smallest details on models, dollhouse furniture, duck decoys and other scale model projects. Stainless steel handle with knurled grip. Blade illustrations are shown actual size.

#### #81067 Knife handle with one of each blade shown **\$14.95**

- K. #81084 #61 Blade, pkg. of 5 **\$5.95**  
 L. #81085 #62 Blade, pkg. of 5 **\$5.95**  
 M. #81086 #67 Blade, pkg. of 5 **\$5.95**  
 N. #81087 #67M Blade, pkg. of 5 **\$5.95**



### Precision Cutting Knives

- A. #14349X2 NO. 1 KNIFE The world's best selling hobby, craft and graphic arts knife. Aluminum handle, 4-7/8" long. Pkg. of two with two no. 11 blades. **\$7.95**  
 B. #14351X2 NO. 2 KNIFE Larger diameter, slightly longer and heavier than the no. 1 knife. Package of two with two no. 24 blades. **\$9.95**  
 C. #36117 NO. 5 KNIFE Contoured plastic handle with metal blade lock. 4-1/4" long. Includes one no. 19 blade. **\$6.95**

### Surgical Scalpels...the Ultimate Cutting Tools

- D. This genuine surgeon's scalpel is excellent for fine intricate cutting in model making, graphic arts, craft and lab work. Stainless steel handle holds interchangeable blades made of surgical-grade steel. Set includes handle and two each of 4 blades shown. **#50281 Scalpel/Blade Set \$11.95**

#### Scalpel Blades, package of 5 - **\$3.95 per package**

- E. #14570 #11 F. #14571 #10 G. #14572 #12 H. #14573 #15

### Protective Cutting Pads Heal Themselves

Place on your workbench or even your dining room table and never worry about scratches or cut marks again. Pads actually heal themselves instantly after each cut. Surface stays smooth after thousands of cuts and blades will last longer. Made of 3 ply, non-glare polyvinyl. Double sided for twice the life. You've got to try one to believe it.

#### #36133 Medium Cutting Pad, 8-1/2" x 12" **\$24.95**

#### J. #36134 Large Cutting Pad, 12" x 18" **\$29.95**



#89115 **Revo Folding Utility Knife** Revo's quick blade-changing mechanism provides fast, safe blade swaps and clever fold-up design allows it to easily slip right into your pocket or clip to your belt. Open center ring provides extra grip for safety and support at any cutting angle. Includes one standard two-notch, double-sided blade. List \$25.00 Our Price **\$19.95**

#89141 Utility Knife Blades, 2-Notch, 5-Pack **\$4.95**

#89142 Utility Knife Blades, 2-Notch, Bulk Pack of 100 with Dispenser Box **\$34.95**



#83231 **Excel Super Deluxe Knife Set** includes 6 knife handles and 37 assorted blades for virtually any cutting job! Also includes a burnisher, sharpening stone and hobby awl. All items are neatly organized and secured in a sturdy and portable storage case. Excel blades are world-class. This is the only knife set you'll ever need. **\$69.95**

**Excel Rotary Knives** cut faster, cleaner and easier without the hand strain caused by scissors and utility knives. Make gentle, even curves without really trying and zip across templates and straight-edges like lightning. Retractable blade guard keeps your fingers safe.

#86779 **Excel Rotary Knife, Large** 40 mm blade **\$14.95**

#86778 **Excel Rotary Knife, Small** 20 mm blade **\$7.95**



### Industrial Quality Razor Blades



Our razor blades are a cut above any you've ever used. They'll hold their finely honed cutting edges far longer than ordinary blades. Made of high carbon surgical steel with steel backs. Once you use these, you'll never go back to hardware store quality. Packed 100 blades in a convenient dispenser box.

#### #14292 Razor Blades (100/pkg.) **\$12.95**

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



Three twist-locking, cam-action clamp pins install in holes in plastic base to hold 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 even more 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°.

#### #83277 Easy Miter Box Deluxe **\$19.95**



### Precision Knife Set by Excel is Made in USA

A popular, all purpose knife set for modelers, miniaturists, wood-workers, graphic artists and household use. Includes light, medium and heavy duty blade holders, nos. 1, 2, and 5 handles and 13 assorted surgically sharp blades for unlimited cutting capabilities. Also includes an attractive wood storage case. Made in USA.

**#60924 Precision Knife Set.** Value \$43.00 ... Our Price **\$24.95**

### #90519 20" Ruler with Handle and Levels

Graduated in inch and mm, this "handy" 20-inch ruler features a sturdy plastic handle with built-in level vials on both sides for easy, accurate measuring, scoring, and more.

**\$16.95**



*Convenient handle provides a firm grip for bearing down while cutting, measuring, marking, etc.*

### Zona High-Precision Razor Saws



**#82980**

**#82980 Multi-purpose Zona 4-in-1 Saw Set** includes one 32 tpi razor saw blade for cutting wood, one 52 tpi razor saw blade for cutting metal and plastic, two 24 tpi saber saw blades for curved cuts in wood (1 regular and 1 push-style keyhole type), and one finely finished 4" long wood handle with wing nut and screw for attaching blades (order extra blades on our website). **\$13.95**

**#82985 Zona Flush Cutting Saw** has a 6-1/2" long x 1-1/4" wide flexible steel blade ideal for flush cutting dowels, plugs and pegs without marring the surrounding surface. 16 tpi x .012" thick blade cuts on pull stroke. 4" long wood handle.

**\$14.95**



**#82985**

### The Only Way to Get a Wood Dowel Under 1/16" Diameter

Dowels smaller than 1/16" dia. are not available "off the shelf," so you can use our Draw Plate to easily make them yourself. The hardened steel plate has a series of sharp-edged tapered holes which range from approximately 3/32" diameter down to .020" diameter. To make a small-diameter dowel, clamp the plate in a vise, then draw a 1/16" round or square wood strip through the series of holes until the wood is shaved to the diameter you need. Overall size: 5-1/2" x 1" x 3/32" thick.

**#50330 Draw Plate.** List \$75.00 ... Our Price **\$54.95**

**#50200X2 Hardwood Dowels** - .085" dia. (1/16" nominal) x 12" long, 10 pieces. **\$7.95**



### Deluxe Razor Saw/Knife Set



This complete set of razor saws, with tempered, nickel-plated steel blades, makes fine cuts in wood, plastic and non-ferrous metals. Includes no. 5 knife handle, one 3/4" x 5" x 42 tpi blade, one 1" x 5" x 42 tpi blade, one 1-1/4" x 5" x 24 tpi blade, one no. 15 keyhole saw blade, and 5 assorted knife blades.

**#50284 Razor Saw Set \$20.95**

**#22118X2 Extra-fine Blade, 1-1/4" x 5" x 54 tpi \$11.95**

### Extra Razor Saw Blades - Sold in Packages of Two

**#81860X2 3/4" x 5" x 42 tpi (2) \$10.95** **#81861X2 1" x 5" x 42 tpi (2) \$10.95** **#81862X2 1-1/4" x 5" x 24 tpi (2) \$10.95**

### Stainless Steel Mini Straight Edges Protect Your Fingers

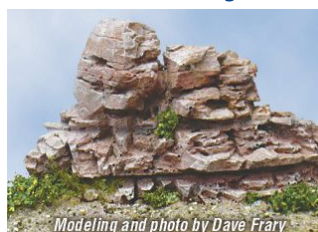


Cutting a straight line with a knife is easy and safe with our knob-held stainless steel straight edges. Just the right size for hobbies, crafts and graphic arts work.

**#14162 6" long x 2" wide x 3/32" thick Straight Edge \$14.95**

**#60916 12" long x 2" wide x 3/32" thick Straight Edge \$19.95**

### Hot Knife/Soldering Iron is Great for Carving Foam



*Modeling and photo by Dave Frary*



Compact, lightweight, 30 watt soldering iron with steel barrel and heat resistant handle develops up to 720°F. Pencil-point tip gets into the tightest places. Handle stays cool while you work. Hot knife attachment is ideal for modeling, carving and shaping rock faces and other features in foam. Also welds plastics.

**#17107 Hot Knife/Soldering Iron \$24.95**

**#14360 Extra knife blades (15) \$6.95**

### Miniature Chisel Set

Set of 7 sharply honed miniature chisels for carving and shaping precise, intricate details into model surfaces. Made of surgical quality mirror-finish stainless steel with 6" long grooved octagonal handles for sure grip. Includes convenient storage wallet.

**#83253 Miniature Chisel Set \$19.95**

### Flash Master Flexible Blades are Ideal for Removing Flash and Smoothing Seams



**#90038 Flash Master Blades** Uniquely designed flexible blades trim flash and smooth seam lines like no other tool you've ever used, even in hard-to-reach areas such as interior curves. Use on model kits, 3D prints and more. Perfect for slim, delicate parts. Package of 10 blades. Works with most popular blade handles and styles. Handle not included. **\$12.95**



### Get a Grip... A FitGrip

Ergonomically contoured and covered in smooth non-slip rubber, FitGrip #1 Knife Handles provide confident control while cutting a wide variety of materials. Knurled metal screw-type blade locking/unlocking system at the back end of the handle is leaps and bounds beyond typical #1 Knife handles. Plus, opposing flats on the handle prevent roll-way when the knife is resting on your work surface. Set includes **two** FitGrip knife handles, each with a #11 blade and protective cap. FitGrip holds all of the following blade types: 5, 6, 10, 11, 12, 13, 15, 16, 17, 17A & 21.

**#89114 FitGrip #1 Knife Handle Set \$14.95**



**#86464 Combination Circle Cutter and Compass** has an expanding beam that sets with slide rule accuracy. Sharp pivot point and interchangeable razor-sharp blades/pencil tips (included) let you draw or cut circles up to 11-1/2" in diameter. Includes protective rubber pivot pad. Works on paper, card stock, plastic, thin wood and cloth. List \$11.50 Price **\$9.95**

**#86464BL 10 extra blades for above, plus container. \$5.95 3 or more \$4.95/pkg.**



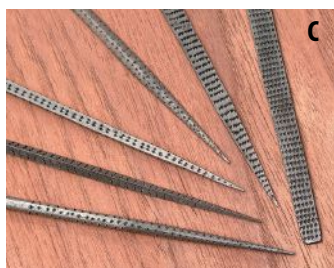
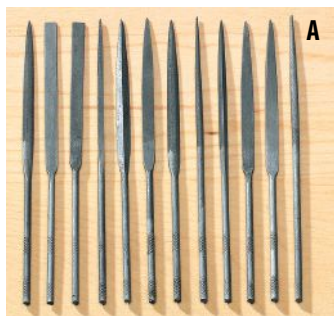


### Multipurpose Micro Needle File Set for Precision Work

These sub-miniature diamond files contain the most popular shapes for hobby work. Includes two each of the following: flat (5/32"), round (3/32" diameter, tapering), square (5/64" tapering), triangular (3/32" tapering) and half-round (9/64" tapering). At 3-7/8" in total length, they offer delicate control for intricate projects. 150 grit.

**#90522** 10-piece Micro Diamond Needle File Set **\$19.95**

### File, Rasp and Reamer Sets for a Wide Variety of Applications



**A. #33108 Swiss Pattern Needle File Set** Use for removing, smoothing and shaping steel, brass, aluminum, cast metal, plastic and wood. Can also be used for shaping small turnings while still in the lathe. All files are approximately 5-1/2" long with 1/8" dia. shanks. Sold in sets of 12 in a vinyl storage wallet. Medium cut. List \$20.00... Our Price **\$12.95**

**B. #83180 Micro-Size Needle File Set with Free Handle** Our hard-to-find micro-size needle files are 30% smaller than other files on the market. Fine cut for use on wood, metal and plastic. 4" long with 1/16" dia. shanks. Includes 12 files plus **FREE** collet type handle for delicate control. Value \$35.00... Our Price **\$24.95**

**C. #85147 Needle Rasp Set** Use these extra coarse rasps for quick stock removal in wood, plaster, stone, plastic, fiber and wax. 6-piece set, 1/8" dia. shanks. 5-1/2" long overall. **\$19.95**

**D. – E. Diamond Coated Needle Files** cut faster, last longer and leave a smoother finish than ordinary steel files on virtually all materials. Diamond-coated on all sides. Shown approximately 40% actual size.

**D. #82250 Medium Grit Needle File Set.** 10 assorted shapes. 5-3/4" long. **\$24.95**

**E. #82249 10-piece Tapered Needle File Set.** Includes 3 widths, each in extra fine, fine and medium grits, plus 1 pointed round fine-grit file. 5" long. **\$24.95**

**F. #26108 6-piece Reamer Set** Reamers finish the job when drills can't deliver an exact size hole. Use them for enlarging, deburring, shaping, cleaning and cutting holes in metal, plastic or fiber. Hardened steel with easy grip knurled handles. Hole size: .024" to .073". 2-3/4" to 4" long. Includes plastic storage wallet. **\$24.95**

### Flex-I-File...A Unique Tool for Fine Professional Finishes



Flex-I-File smooths the edges of fine slots, follows compound curves, and works into tight interior angles. The spring action of the anodized aluminum frame maintains constant ribbon tension for delicate control with hairline accuracy. Ideal for removing glue seams from castings or smoothing turnings while still in the lathe. Frames are 4" x 4-1/4". Abrasive ribbons are 1/4" wide x 4-1/4" long. Set includes 3 frames and 16 assorted color-coded ribbons.

**#60619** Flex-I-File Set **\$39.95**

**Extra Flex-I-File Abrasive Ribbons, package of 12 – \$7.95/package**

**#60620** 150 Grit **#60621** 280 Grit **#60622** 320 Grit **#60623** 600 Grit

### High Quality Sanding Blocks are Comfortable and Easy-to-Use

No-slip finger grooves and sure-lock clamps keep sandpaper taut and securely in place. The block's special design lets you to use both sides before changing the sandpaper and includes a thin rubber pad attached to the work surface to prevent gouging. Made in the USA of sanded hardwood.

**#60382** 1"W x 8"L x 1-3/4" thick **\$23.95**

**#60383** 2"W x 8"L x 1-3/4" thick **\$24.95**

**#60442** Set of both blocks **\$44.95**



**Replacement Sandpaper in 10 Foot Rolls, package of 2**

**1 inch wide \$5.95 (pkg. of 2)**

**#60443X2** 80 grit **#60444X2** 120 grit **#82405X2** 240 grit **#60446X2** 320 grit **#60447X2** 400 grit

**2 inch wide \$7.95 (pkg. of 2)**

**#60449X2** 80 grit **#60450X2** 120 grit **#82406X2** 240 grit **#60452X2** 320 grit **#60453X2** 400 grit

### Premium Quality Tool Sets Store Bits in the Handle

**Not cheap imitations!** These jeweler's quality tool sets include beautifully machined aluminum handles with non-slip knurled grips, precision collets and pocket clips.

Hollow handles store bits conveniently and safely. *\*Note: Handle has no storage compartment*



**#81845 12-piece Micro File Set** Includes 4" long micro-slim needle files in assorted shapes. 5-3/4" long handle. **\$27.95**

**#82121 10-piece Riffler File Set\*** Includes 4" rifflers in assorted shapes. 4-1/2" long handle. **\$27.95**

**#81650 3-piece Diamond Reamer Set** Enlarges and deburrs tiny holes; cuts in any direction. Includes 3 reamers: 2" long x 1/8" dia. tapering to a point; 1" long x 1/16" dia. tapering to 1/32"; 5/16" long x 3/16" dia. with cone-shaped tip. 4-1/2" long handle. **\$18.95**

### Abrasive Cords and Tape are the Jeweler's and Machinist's Secret to Obtaining Smooth Finishes in Tight Places

Round, abrasive cords and flat tape make it possible to smooth and polish hard-to-reach places inaccessible to most conventional tools.

Excellent for use on miniature wood, metal and plastic turnings while they're still in the lathe. Both cords and tapes are aluminum oxide, 16 yards each.



#### Abrasive Cords

**#12108** .055" dia., 120 grit **\$17.95** **#12109** .030" dia., 200 grit **\$17.95**

**Abrasive Tape #12110** 3/32" wide, 180 grit **\$17.95**

**#12117** Buy all 3 together and **SAVE! \$47.95**

## Another Ingenious Way to Sand and File from Infini Model

Precision filing and sanding in confined, tight and narrow areas is an ongoing challenge for makers. And even if you can find a tool that fits in the space, chances are, you won't have the right grit. This ingenious Precision Sanding/Filing system from Infini Model is the most clever solution to this problem we've seen. Starting with six finely crafted photo-etched stainless steel wands in 2 mm, 3 mm, 5 mm and 10 mm widths, plus two triangle shapes, Infini provides eight adhesive-backed sheets of their exceptional sanding film in 400, 600, 800, 1000, 2000, 3000, 5000 and 7000 grit which you adhere to the wand of your choice and cut to size. With this system, you will always have the perfect size, shape and grit for the job, right at your fingertips. Use wet or dry. Two-pack 9" x 3-3/4" adhesive-backed sanding film refills for each grit available separately.



**#89381** Infini Model Precision Sanding/Filing System **\$34.95**

## Premium Ultra-Precision Softback Sanding and Polishing Sponges by Infini Model for Superior Quality and Longer Life



Unlike regular sandpaper which is prone to wrinkling and tearing, the flexible, cushioned sponge backing of Infini Model's Softback Sanding Sponges is designed to follow the contours of your project perfectly, resulting in a finer finish in less time. Softback Sanding Sponges can be used for dry or wet applications for maximum versatility. Dust and dirt caused by polishing doesn't stick to the sanding sponges easily, and they can be washed off, providing 50% longer lifespan than similar products! Set of six single-sided 5-1/2" x 4-1/8" Softback Sanding Sponges includes one each 220, 400, 600, 800, 1000 and 1500 grit.

**#88077** Softback Sanding Sponges, Set of 6 **\$13.95**

**#88085K** Softback Polishing Sponges, Set of 4 **\$11.95**

**2-pack refills of each grit available separately.**

## ...And, Ultra-Precision Softback Sanding & Polishing Sticks

What happens when you take the premium abrasives above, make them narrower and more maneuverable, add a semi-flexible plastic backbone for a firm grip and added pressure when working in confined areas, AND make them double-sided for twice the life? You get this amazingly versatile Softback Sanding and Polishing Set. Set of eight 6-3/4" x 1-1/8" Softback Sanding Sticks includes one each 220, 400, 600, 800, 1000, 1500, 2500 and 4000 grit. 2-pack refills of each grit available separately.

**#88086K** Softback Sanding & Polishing Stick Set. List \$52.00... Our Price **\$29.95**



## Premium Elastic Sanding Film Set Stretches, Wraps and Conforms

Made with the same premium abrasives as above and electrostatically bonded to the thinnest, stretchy elastic backing, this unique sanding film goes where no conventional sandpaper dares to try! Use wet or dry. Set includes **two each** 220, 400, 600, 800, 1000, 1500 and 2500 grit sanding films. 6-pack refills of each grit sold separately.

**#88963** Premium Elastic Sanding Film Set **\$19.95**



**#90526 Deluxe 5-Piece Scratch Brush Set** Removes dust, paint, rust, dirt and grime from metals, plastic and more. Bristles feed out and in like a mechanical pencil with a twist of the rear cap. Red - Fiberglass, Blue - Nylon Hard, Green - Nylon Soft, Yellow - Brass, Black - Steel. Brushes are 4.75" long with metal ferrules. **\$14.95**



**#90527 15-piece Scratch Brush Refills Set** Extend the life of your scratch brushes with this refill set. Includes 3 each Nylon Soft, Nylon Hard, Fiberglass, Brass and Steel. **\$11.95**

## Zebra Premium Sanding Twigs by Infini

**NEW!**

Our Zebra Premium Sanding Twigs are always the same size, always the same grits, for reliable performance every time. Double-sided for maximum utility and longer life, each 3/16" wide x 6-7/8"-long sanding twig is built on a semi-flexible cushioned core designed to create perfect, smooth finishes on plastic, wood, resin and more, even in the tightest spaces. Each package contains 100 sanding twigs in 5 different grits: 80, 220, 400, 600 and 800, all color-coded for fast and easy grit identification.

**#91145** Micro-Mark Zebra Premium Sanding Twigs, package of 100 in 5 grits **\$19.95**



## Innovative Clear Tempered Glass Files Allow You to See Your Progress as You Sand, File and Polish to Perfection!

Infini does it again! Starting with a crystal clear tempered glass substrate, Infini uses an ingenious process to permanently bond only the abrasive material to the substrate, allowing you to see right through the file to the workpiece. Gone are the days of removing too much material or ruining the shape of a part because you couldn't see it as it was happening. Use this 3-piece system to sand, file and polish - wet or dry - on plastic, resin, wood...even fingernails! When you're done, rinse with water to avoid buildup of sanding residue and to ensure longer life. Each Clear File Set includes one each medium (220 - 400 grit), fine (600 - 800 grit) and super-fine (1000 - 1500 grit) files.\* Choose from 2 sizes: Small (3-1/2" x approx. 1/4" x 3/32" thick) and Large (4-1/4" x 1/2" x 3/32" thick). Get these and see what you've been missing! \*Grits are approximate.



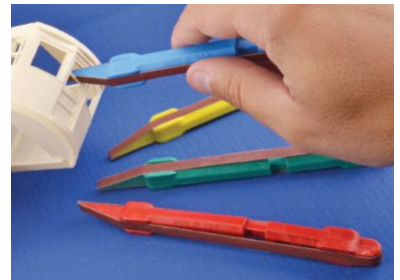
**#89825** Infini 3-piece Clear File System, Small **\$29.95**

**#89826** Infini 3-piece Clear File System, Large **\$29.95**

## Micro Sanding Wands for Delicate Control

These Micro Sanding Wands use 1/4" wide, abrasive belts that can be used wet or dry and work well on almost any material. Made of tough, impact resistant polypropylene with a spring loaded tensioning device that allows a quick belt change. Color coded so you can instantly identify different sanding grits.

**#81471** Set of four includes one each; Yellow, 400 Grit; Green, 320 Grit; Blue, 240 Grit; Red, 120 Grit **\$18.95**



## Micro Sanding Wand Belts, 5 per package - \$8.95/package

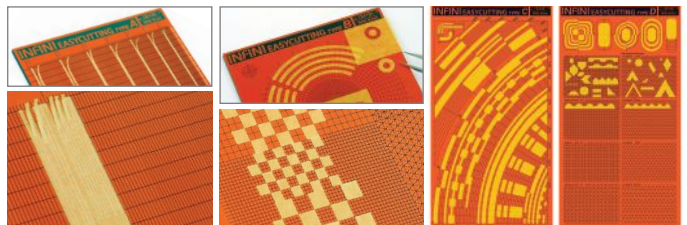
**#60388** 400 Grit

**#60389** 320 Grit

**#60390** 240 Grit

**#60391** 120 Grit

## Amazing "Easy Cutting Guides" are Ideal for Masking Projects



Perfect for modelers and crafters, we tracked down these hard-to-find precision cutting guides because we need them, too! Until you try one, you just won't believe how smooth, clean and sharp the cuts you make can be using an ordinary hobby knife and a fresh blade. Delicate laser-etched grooves in the acrylic surface are almost too fine to feel with your finger, yet provide surgically accurate cuts with almost zero effort. Take it from us, you need these! See our website for details. **\$22.95 each**

**#88073** Infini TYPE A **#88074** Infini TYPE B **#88075** Infini TYPE C **#88076** Infini TYPE D

**EASY CUTTING GUIDES NOW AVAILABLE IN SEE-THROUGH CLEAR \$19.95 ea.**

**#90488** TYPE A, CLEAR **#90489** TYPE B, CLEAR **#90490** Infini TYPE C, CLEAR **#90491** Infini TYPE D, CLEAR





## A. Cyanoacrylates (CAs) – Instant “Super Glues” for Every Project

**Quick Cure Zap (pink label)** Thin consistency flows into the tightest joints...even when parts are already clamped together. Cures in 1–5 seconds. Penetrating action acts as a sealer on wood. Bonds metal, plastic, wood, glass, jewelry. Includes applicator bottle.

#80875 Zap CA 1 oz **\$10.95** #80876 Zap CA 2 oz **\$15.95**

#85243 Micro-Mark Insta-Cure CA, 2 oz **\$11.95**

**Mid Cure Zap-A-Gap (green label)** Best for general purpose construction and assembly. Thicker consistency fills minor gaps and irregularities. Cures in 20 seconds. Preferred over Quick Cure for bonding wood. Includes applicator bottle.

#80877 Zap-A-Gap 1 oz **\$10.95** 2 or more **\$9 ea.** #80878 Zap-A-Gap 2 oz **\$15.95**

#85244 Micro-Mark Insta-Cure +, 2 oz **\$11.95**

**Slow Cure Slo-Zap (yellow label)** Extra thick consistency fills larger gaps and irregularities and forms fillets on models. Slow, 90 second cure allows positioning time. Recommended for laminating, sheeting and other large surface applications. Spreads easily. Preferred for use on balsa, basswood and other porous woods.

#80879 Slo-Zap 1 oz **\$10.95** #80880 Slo-Zap 2 oz **\$17.95**

#85245 Micro-Mark Maxi-Cure, 2 oz **\$11.95**

**Zip Kicker** Instant glue accelerator. After applying instant glue to the joint, give it a light spray of Zip Kicker and the glue will set up instantly. Also excellent for bridging gaps in bad fitting joints and for end grain gluing. Safe for plastics.

#83118 Zip Kicker 2 oz Spray **\$8.95\*** #80885 Zip Kicker 8 oz liquid **\$13.95\***

**#80887 Z-7 Debonder** dissolves all brands of cyanoacrylate adhesives like magic! Also removes cured residue from model parts, skin, tools, clothes, etc. Will not attack plastics. This odorless product is essential for correcting assembly errors, cleaning up spills and other workbench disasters. 1 oz. applicator bottle. If you use CA glue, you need Z-7. **\$6.95\***

## B. – C. Precision Applicators for Glue and Accelerator

Simply touch the tip to the object to transfer the glue with precision control, eliminating blobs and other mishaps. Also applies accelerator without messy sprays and harmful vapors.

**B. #81669 Mini Glue Applicator.** Holds a single drop of glue or accelerator in the loop at its tip. All Stainless steel. Approx. 6" long. **\$9.95**

**C. #82448 Micro Glue Applicator.** Holds a miniscule drop of glue or accelerator in the forked stainless steel tip. Nickel ferrule and wood handle. 7" long. **\$9.95**

## D. “Touch-N-Flow” Precision Applicator

The Touch-N-Flow Applicator lets you apply just the amount of liquid plastic cement (solvent type) or C/A accelerator you need. How it works: Capillary action draws liquid into the glass tube. Touching the micro-tip to the joint causes the liquid to flow from the tube. Application is easily controlled and precisely positioned. *Note: not for use with cyanoacrylates or other thick glues.* **#81778 Touch-N-Flow Applicator \$12.95**

## E. SAME STUFF Liquid Plastic Welder

Solvent-type cement welds styrene, acrylic, butyrate and ABS plastic. To apply, place the parts together and then put a drop on the seam with the included Touch-N-Flow applicator (described above). Hold for 15 seconds. In that amount of time, SAME STUFF bonds and starts to cure. This method is far superior to thicker plastic cement which is messy, harder to control and can damage expensive model kits.

**#84131 SAME STUFF with Touch-N-Flow Applicator.** Value \$28.85 ... Our Price **\$24.95**

**#84113 SAME STUFF Refill (2 oz) \$8.95 2 or more \$7 each**

## F. Applicator Caps & Precision Tips for Micro-Mark CA Bottles

Replace those clogged and damaged applicator caps! Use for Micro-Mark CA glues and other screw-on CA applicator bottles. Package of 24. **#85823 Applicator Caps \$12.95**

**#90990 BSI™ Extra-Fine Extender Tips for Micro-Mark CA Bottles** (and many others) offer far more control over the rate and flow of thin-consistency CA glues when compared to straight-from-the-bottle application. Essential for precision gluing. Package of 12. **\$7.95**

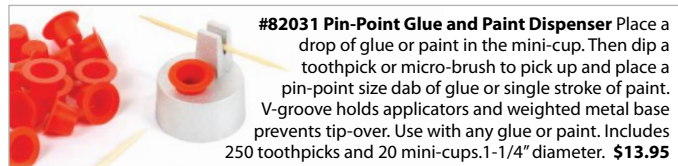
## Glue Looper is a Patented Micro Fluid Applicator

**Made for Exact Glue Placement** Fits any standard hobby knife handle with a flat clamping front view.

Reusable for multiple applications. **\$19.95/pkg.**

**#88400 V2 Glue Looper for Thin Glues, pack of 10; 3 sizes**

**#88401 V4 Glue Looper for Thin Glues, pack of 7**



**#82031 Pin-Point Glue and Paint Dispenser** Place a drop of glue or paint in the mini-cup. Then dip a toothpick or micro-brush to pick up and place a pin-point size dab of glue or single stroke of paint. V-groove holds applicators and weighted metal base prevents tip-over. Use with any glue or paint. Includes 250 toothpicks and 20 mini-cups. 1-1/4" diameter. **\$13.95**

## G. Disposable Double-Ended Loop Applicators for CA & More!

**FINALLY!** We've been searching for these for years, and now we've got them! Precisely apply any type of CA glue, liquid cement, epoxy, lubricant, etc. without fear of ruining your favorite applicator. Another must-have Micro-Mark item.

**#91009 Disposable Double-Ended Loop Applicator, 20/pkg. \$8.95 2 or more \$6/pkg.**

## H. Microbrushes – Disposable Applicators for Exact Placement

Use a Microbrush to apply a tiny amount of liquid glue, paint or lubricant exactly where you want it without spilling, dripping or staining. Non-linting, non-absorbent. Bendable handles. **\$14.95/pkg. of 100** #83168 Regular #83170 Fine #83172 Super Fine

## J. Chemical-Resistant Applicators for Glue, Accelerator and More

Bellows-type container with fine 20-gauge x 1-3/4" long stainless steel applicator is ideal for placing small drops/beads of glue, liquid cement, accelerator, oil, and more exactly where you want them. Tight-fitting cap prevents evaporation and curing inside container. Applicator snaps off for refilling. Choose from 1 oz and 2 oz sizes below. Pkg. of 2. **#60363 1 oz Applicators \$6.95** **#83514 2 oz Applicators \$8.95**

## K. Ready-to-Use Scenery Cement Holds Securely, Stays Flexible

Add ballast, turf and grass to your layout or diorama, then apply our ready-to-use Scenery Cement straight from the bottle to hold it in place. The included dispenser cap makes application easy and fast. Dries invisible, but remains flexible. Water-based for easy cleanup.

**#85043 Scenery and Ballast Cement (16 fluid oz) \$10.95 2 or more \$8 each**

## L. Detail Tack – Repositionable Glue for Model Figures & More

Special formula dries clear, but remains tacky so that figures and details can be easily repositioned. **#84774 Detail Tack (2 oz) \$10.95 2 or more \$9 each**

## M. Liquid PSA\*\* Eliminates Glue Drips, Runs and Smears

Perfect for models with intricate trim, window glazing and signs. Just apply a thin coat to the surface to be joined. It will quickly dry and turn clear, but remains tacky. Then, simply press together. Since the glue is dry, nothing oozes out to ruin the finish of an otherwise perfect model. Parts go together quickly and are repositionable. Washes off with water until dry. **#84775 Liquid PSA (4 oz) \$17.95** \*\*Pressure Sensitive Adhesive

## N. Watch Crystal Cement for Clear Contoured Plastic

Special cement dries crystal clear and won't attack plastic, making it ideal for cementing plastic canopies and windshields on airplane and car models. Special needle-point applicator tip makes precise placement easy. Wire-in-cap keeps applicator free flowing. Cures to the touch in 15 minutes; uncured cement cleans up easily with ordinary rubbing alcohol. Two 1/3 oz tubes. **#80343 Crystal Cement \$11.95\***



**#90813 Scale Motorsport "The Tool Box" Model Builder's Tool Kit** is a collection of some of Scale Motorsport's most popular plastic modeler's tools, including: 5 GrabitStix™, their revolutionary small parts placement tool designed to use in place of a tweezer; 10 PolishingStix™, Micro-Mesh laminated onto pliable polystyrene for wet or dry use (Micro-Mesh 3,400 through 12,000 grit), and 8 stainless steel scribe and saw blades. **\$27.95**

**Plasti-Zap** The best CA for assembling plastic model kits. Cuts through plastic mold release agents and will not chemically attack or soften plastic parts. Medium viscosity, non-flammable formula cures clear in 15 – 30 seconds and is sandable and paintable. Can be removed from plastic parts with Debondor.



**#80881 Plasti-Zap CA**, .33 oz **\$6.95**

**#88761 Plasti-Zap Brush-On**, .25 oz **\$4.95**

**#84368 Zap Goo** is an all-purpose adhesive and sealant. Not a super glue. Bonds virtually anything to anything. Gooney, strong, clear and remains flexible. For porous and non-porous surfaces. 1 oz tube. **\$4.95**



**#80888 5-Minute Quick Cure Z-Poxy** is specially formulated to bond wood, metals, plastics, fiberglass and more. Shock and solvent-resistant Z-Poxy is non-shrinking and is great for gap-filling. Produces a tough, permanent bond in just 5 minutes. Two-part system; mix equal quantities of A & B. Two bottles, 8 fl. oz total. **\$18.95**

**#83655 Zap-O Foam-Safe Odorless CA Glue** has the same gap filling properties as Zap-A-Gap CA+ but without the fumes. Works great on a wide range of materials and for gluing foam shapes and various materials to foam products. Medium thick formula cures in 15 seconds. 0.7 oz/20 g bottle. **\$15.95**



Follow us on

**SUPPLIES**

**HAND TOOLS**

**POWER TOOLS**

**A Micro-Mark Exclusive!**



**#88879 Micro-Mark Gluing Station** Designed in-house and manufactured in our own U.S. factory, this elegant laser-cut wood rack is custom-made to hold our SameStuff Plastic Welder and applicator, along with 1 and 2 ounce oval-shaped and round super glue bottles, plus 10 extra spaces for applicators, paint brushes, hobby knives, pencils and more! 9-3/4" long x 4-1/4" deep; 2-7/8" high. Makes a perfect companion to our #88700 Paint Rack. *Assembly required. Glue and tools are not included.* **\$18.95**

## For Micro-Precision Glue Application, Nothing Beats the Diamond Pro Micropipettor

If you have ever over-glued a model kit with a toothpick or glue bottle applicator, this revolutionary new modeling tool will cure that frustration. Whether gluing hard-to-reach areas or the smallest of parts, this Diamond Pro Pipette is the Cadillac of glue applicators. Originally designed for scientific applications, this magnificent precision tool operates on the air displacement principle and uses disposable tips. Draw in only the amount of glue you wish to apply and slowly distribute to your part or seam with the easy-to-use control dial and plunger. Pipette works with all consistency of CA glues. Includes certificate of calibration, a recalibration tool kit and a full one year manufacturer's warranty. Take your modeling to the next level with this ultimate gluing system.

**#88842 Diamond Pro Micropipettor** List \$230.00 ... Our Price **\$209.95**

**#88841 Pipette Tips, 50 Pack** **\$9.95**  
**2 or more \$7/pkg.**

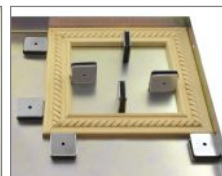
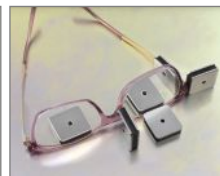
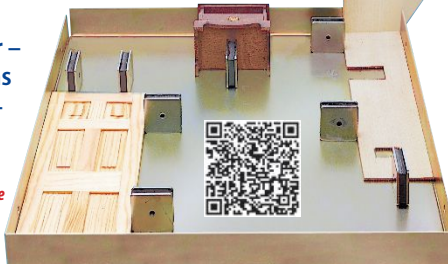
**#88992 Track Maker Assembly Jig** for Tank Track Links. Adjusts from 0 to 30 mm (1-3/16") wide. **\$59.95**



**A Micro-Mark Exclusive!**

## For Square and True Assembly and Repair – and for Holding Items Clamps Can't Grasp – Nothing Beats Our Magnetic Gluing Jig

*One of our all-time favorite items, the Magnetic Gluing Jig is an essential tool in the shop, in the studio, in the home...everywhere!*



Woodworkers, model builders, DIYers and crafters rely on it every day for joining and holding components perfectly square and true while glue dries, and for holding together and gluing oddly-shaped items on which ordinary clamps would never work. Its beauty is in its simplicity. 8 powerful magnets sandwiched between a fixed plate and a removable/repositionable plate allow you to place the magnets' strong holding force just where you need it on the 10-1/4" x 10-1/4", 21 gauge steel jig plate. The plate's 7/8" flanges are bent up at a 90° angle to hold items squarely and securely. Open ends allow long, thin wood pieces to extend outside the jig if needed. Includes 8 magnetic holding plates.

**#60304 Magnetic Gluing Jig** **\$29.95**

**#60305 Extra Magnetic Plates (8)** **\$12.95**

## #90245 Multi-Use Syringe Set

Ideal for a wide variety of applications, this handy syringe set includes seven frequently used sizes: 1 ml, 2 ml, 3 ml, 5 ml, 10 ml, 20 ml, and 60 ml. Washable and reusable, each syringe includes graduated markings for consistent measuring and dispensing of material. **\$12.95**



## Mr. Hobby "Mr. Basic" Tool Set for Plastic Model Kits



**Sprue Nipper**



**Metal File**



**Angled Tweezer**



**Panel Line Marker**

**#91024 Mr. Hobby Mr. Basic Tool Set for Plastic Model Kits** This handy set includes a sprue nipper, metal file, angled tweezer and panel line marker, all in a durable and convenient plastic carry case. **\$26.95**



**#90319 Modeler's Scraping, Scribing, Shaving & Boring Set** This 4-piece triple-duty set provides the "extra" modeling tools you didn't know you needed, but will quickly become invaluable for all of your projects. Made from high-end martensitic stainless steel, these durable tools are designed to scrape, shave, scribe and bore plastics and other non-hardened materials. Set includes the following four blade types: single-edge, low-angled left-hand blade; double-edge, high-tapered blade; double-edge, high-angle tapered blade with sharp point; and double blade-edge with a long, straight blade on one side and a sharp tip on the other that makes an excellent panel scribe. Comfortable, secure-grip foam handles are color-coded for easy identification. **\$24.95**

## Trust Us – You Need These!



**#90662 Mini Aluminum Trays, Pack of 50** These 4" diameter trays are useful for an incredibly wide variety of applications, including mixing epoxies, putties and paints, holding glue, weathering powders, and hardware, cleaning small parts, and so much more. Depending on the project, you can easily clean and re-use, or simply discard and grab a new one. Once you try these, you'll find them to be so versatile that they will become an indispensable addition to your shop. **\$18.95**



## Our Magnetic Clamps are Perfect for Model Structure Assembly



Set of 4 Clamps

## A Micro-Mark Exclusive!

Set of four paired magnetic squares for assembling precisely aligned 90-degree angles. Works with both laser-cut wood and plastic. Separate the magnets, position on opposite sides of the two pieces to be joined, snap together and apply your glue. Suitable for multiple scales. Includes instructions. Minimal assembly required.

**#91163 Magnetic Assembly Squares** by Scientific **\$39.95**

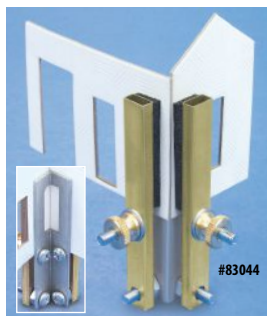


## Build it Better with the "Right Clamp"

Parts held by Right Clamp's thumbscrew adjustable foam-lined jaws are held gently, yet securely at a perfect 90° right angle to each other. A slot in the clamp's rear frame lets you apply glue to parts while they're being held in the clamp, ensuring parts won't move out of position before the glue sets. Overall length: 3". Clamping surface: 1-1/2" long x 3/8" wide (2 places).

**#83044 Original Right Clamp \$39.95**

**#86847 Mini Right Clamp** includes the same great features as the Original Right Clamp above in a smaller size. Overall length: 1-7/8". Clamping surface: 1" long x 1/4" wide (2 places). **\$34.95**



**#83265 Long Right Clamp**  
Overall length: 4-3/16".  
Clamping surface:  
2-3/4" long x 3/8" wide  
(2 places). **\$39.95**



**#83541 Splice Clamp** is perfect for end-to-end gluing. Overall length: 3".  
Clamping surface: 1-1/2" long  
x 3/8" wide (2 places). **\$39.95**

## Combo Right Clamp Is Great for Soldering and Assembly Work

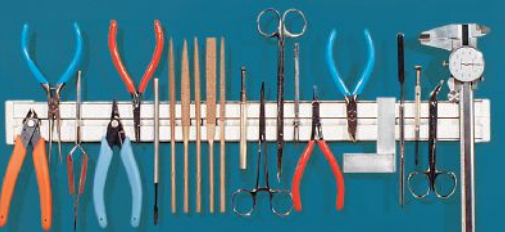


**#85168 Long Combo Right Clamp** has a contoured aluminum main frame with built-in access notches to facilitate gluing and soldering, and grooves for holding metal shapes securely. Features an extended base for use in a vise. Overall length: 4-7/8". Clamping surface: 2-3/4" long x 3/8" wide (2 places). Jaws open 3/8". **\$54.95**

**#86846 Mini Combo Right Clamp** includes the same great features as the Long Combo Right Clamp above in a smaller size. Overall length: 2-1/4". Clamping surface: 1" long x 1/4" wide (2 places). Jaws open 5/16". **\$44.95**

## Magnetic Tool Holder for Up-Front Storage of Small Tools

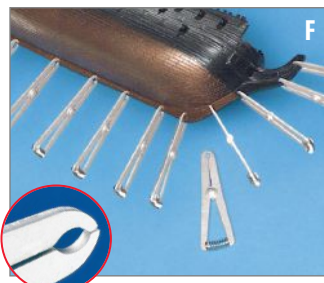
Tools not included.



20" long magnetic tool holder keeps small tools handy, visible and within easy reach. Mounts easily to wall or shelf edge with 2 wood screws (included). Has double row of magnets for extra strength. **#60458 Magnetic Tool Holder \$17.95**



Pack of 10 Clamps



## A. You Can't Have Too Many Clamps... Especially at Such a Great Price!

Ideal size for model building and other miniature projects. Converts in seconds to a spreader by relocating the fixed jaw to the opposite end of the bar. Capacity: clamp 0 to 4"; spread 3" to 7-1/2". Made of steel and engineering polymer, with removable, smooth, no-mar pads.

**#85421 Trigger Action Reversible Bar Clamp** (package of 10) **\$34.95**

## B. Jeweler's Micro-Vise for Hard-to-Hold Round Items

This micro-vise is perfect for holding small round items while drilling, filing, grinding or performing other operations. Four double-sided surfaces provide 8 gripping edges specially formed to hold diameters from 1/2" to 1-3/8". The knurled thumbscrew applies just the right amount of gripping force necessary to hold objects securely without damaging them. Made of plated brass. **#81495 Micro-Vise \$17.95**

## C. Extra Strong, Extra Comfortable Spring Loaded Clamps

The perfect size spring-type clamps for all types of miniature work, especially for the model builder and dollhouse miniaturist. Vinyl grip handles make them extra comfortable to use. Vinyl covered jaws hold stock securely and won't mar wood or other delicate material. 5/8" capacity, 2" long overall. Set of 10 clamps.

**#81839 2" Spring Clamps** (Set of 10) **\$7.95**

## D. – E. Mini Model Builder's Clamps

Lightweight plastic clamps with one fixed jaw and one adjustable jaw. To use, slide adjustable jaw up to workpiece and press tapered locking wedge to hold. Available in 2 sizes. Sold in a set of 2 clamps.

**D. #80323 7" capacity (2) \$12.95 2 or more \$10/pkg.** • **E. #60930 3" capacity (2) \$9.95**  
**#80383** Set of 4: 2 each, 3" and 7". Value \$22.90... Our Price **\$17.95**

## F. – G. Special Spring Clamps for Model Builders

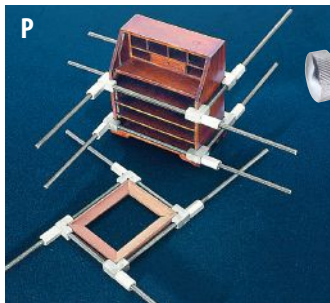
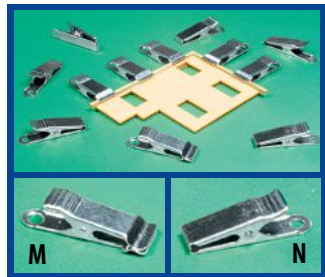
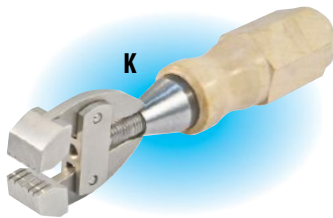
**F. #60929** Aluminum clamp with steel spring. 2-1/2" long with 1/4" capacity. Jaws are designed to hold odd or irregular shapes as well as flat, smooth shapes. All metal construction makes them ideal for holding parts together while soldering. Can also be used as a heat sink. Set of 5. **\$11.95 2 or more sets \$8.90/set**

**G. #60928** Nickel plated steel clamps with vinyl coated cushion grips. 1-3/8" long with 3/16" capacity. Ideal for holding small, flat objects and for keeping ship model rigging lines taut during assembly. Set of 5. **\$14.95 2 or more sets \$11.60/set**

## H. Vise-Grip® Locking Pliers in Miniature Sizes

These small, lock grip pliers are perfect for all types of miniature work. They're fully adjustable and hold fragile items securely without crushing and the long nose pliers will get into tight spots like no other lock jaw pliers can.

**#14565** Curved jaw with wire cutter, 4-1/2" long, 1" capacity. **\$19.95**  
**#14564** Long nose with wire cutter, 5-1/2" long, 1-1/2" capacity. **\$24.95**



## J. Cross-Locking Clamps for Ship Modeling and Miniature Work

Miniature spring clamps hold small objects tightly together while soldering, gluing or positioning. The weight is just right for keeping ship model rigging lines taut while glue dries. 2-1/4" long, 1/4" capacity. Smooth jaws won't leave marks. Six per package.

**#60903** Cross-Locking Clamps (6 per pkg.) **\$14.95** 2 or more pkgs. **\$12.95/pkg.**

## K. Super Hand Vise

Six grooves cut into the jaw surfaces let you securely position and hold wire while you shape and assemble. Useful for holding other metal, plastic and wood shapes as well. Turning the hardwood handle tightens the steel jaws. Hole through handle lets you hold long stock.

**#85139** Super Hand Vise **\$24.95**

## L. Miniature Spring Clamps for Small Assemblies

2-1/4" long clamps with strong springs hold securely while glue dries. Pivot tips adjust to match surfaces being clamped. Molded in 6 neon colors for identification...one even has a key ring. 3/4" capacity with textured sure-grip handles.

**#82780** 6-piece Hobby Clamp Set **\$9.95**

## The More Clamps, the Better!

**#82979** Bag of 50 Mini Clamps Contains 50 of the same type of colorful spring clamps above at a bargain price. **\$24.95**

**#84984** Bucket of 100 Mini Clamps **Best Buy! \$39.95**

## M. – N. Stainless Steel Mini Clamps Hold Where Others Can't

Our spring-loaded mini clamps are ideal for all types of small applications. Jaws may be filed or ground to any shape. Especially good for soldering since solder won't stick.

**M. #14532** Smooth Jaw. 1/2" wide, 5/16" capacity. Set of six. **\$9.95** 2 or more **\$7/set**

**N. #14533X2** "Alligator" Jaw. 3/8" wide, 3/8" capacity. Set of 12. **\$12.95** 2 or more **\$10/set**

## P. Mini 4-Corner Clamps Speed Assembly

Great for clamping miniature picture frames, furniture, model railroad rolling stock and structures, ship models and whenever you need to clamp 4 corners tightly together. They adjust easily to hold items from 1/2" x 1/2" to 5" x 5".

**#60716** Mini 4-Corner Clamp **\$19.95** 2 or more **\$17.95 each**

## Q. Universal Clamp Holds the Oddest Shapes

This ingenious tool is used to hold small and odd-shaped parts for engraving, carving, sawing, filing, sharpening, etc. The four steel pins adjust to 60 different positions to hold the most irregular shapes. 2" diameter solid aluminum head with steel guide pins and screw. Handle can be removed for locking the head in a bench vise. 5-3/4" long overall.

**#21129** Universal Clamp. List \$35.00 ... Our Price **\$24.95**

## R. Spreading Plier

**A Micro-Mark Exclusive!**

Working with a large producer of quality pliers, we designed the body, handles and jaw tips of this spreading plier to provide more comfort and durability with easy spring return action. Hefty handles fit perfectly in the palm of your hand for delicate control and maximum gripping power. The further down the jaw material is placed, the more force that can be applied to your spreading action. Lifetime warranty against manufacturing defects. When fully opened the stepped tips spread to 7/8" and the lowest notch spreads to nearly 3/4". **#87935** Micro-Mark Spreading Plier **\$24.95**

## S. 90° Angle Jig Builds Projects Square and True

If you assemble models or miniatures over a building board, you'll wonder how you got along without this unique tool. How it works: Just position the 90° aluminum angle next to the item you want to hold. Then press the push pin through the hole in the angle and into the building board. Place the item against the vertical face of the angle and hold in place with the mini clamp. Designed specifically for holding wing ribs during model airplane wing assembly. They're also ideal for dollhouse furniture, ship model bulkheads and anytime you need to hold a part at 90° over a building board. Set includes six 1" x 1" x 1" aluminum angles, six push pins and six stainless steel smooth jaw spring clamps.

**#80344** 90° Angle Jigs (Set of 6) **\$22.95** 2 or more sets **\$19.50/set**

## T. Toolmaker's Angle Plate Holds Work at a Perfect 90° Angle

Use these hard-to-find tools whenever you want to join or hold two parts edge-to-edge or edge-to-surface at a 90° angle. Also used to square up table saw, drill press or disk sander tables. Precision cast with machined faces and edges.

**#60713** 1" x 1" x 1" **\$14.95**

**#20123** 2" x 2" x 2" **\$23.95**

**#60626** 3" x 3" x 3" **\$28.95**

**#60714** Set of All Three Angle Plates  
(one of each size) List \$67.85 **\$49.95 SAVE!**

## U. Solid Brass Miniature Bar Clamps

The best clamps you can own for clamping small wooden boxes, dollhouse miniatures, model railroad structures and rolling stock, ship models, model airplanes, clock kits, and more. Beautifully made of solid brass at an unbeatable price.

**#14256** 12" long bar clamps, approx. 10-1/2" clamping capacity. Set of 2. **\$24.95**

**#60103** 7" long bar clamps, approx. 6" clamping capacity. Set of 2. **\$24.95**

**#14257** 4-3/4" long bar clamps, approx. 3-3/4" clamping capacity. Set of 2. **\$24.95**

**#60396** Ultra-mini brass bar clamps with knurled tightening screws for delicate control. 3-3/4" long, approximately 3" clamping capacity. Set of 2. **\$24.95**

## V. Use Vacuum Power for Hard-to-Hold Parts

Unique tool uses vacuum power to hold and position small parts. Simply press the button on the 6" handle to create suction. Then, press again to release. Includes two rotatable extension tips (straight and angled), four rubber suction tips (1/8", 1/4", 3/8", and 1/2" dia.), and a convenient pocket clip. **#82304** Hobby Pal Deluxe Vacuum Tool **\$24.95**



Micro-Mark mold-making and resin-casting materials are provided in practical, user-friendly quantities for maximum efficiency and exceptional results. These professional-grade products are easy to use and easy to master, unlocking a world of possibilities for all makers. There is no limit to what you can do!

One-to-One mold-making products are easy to mix and easy use for exceptional results



#### One-to-One / Express

- 6 minute pot life; 30 minute cure time.
- 2.6 lb. kit contains approx. 32 fl. oz. total material. Blue color; platinum cure.

#86226 \$44.95

One-to-One products are economical general purpose mold rubbers that are easy to mix: Simply stir equal volumes of A and B together and pour. Use your molds again and again to make multiple resin castings, even those with slight undercuts. De-airs without vacuum.



#### One-to-One / Rapid

- 30 minute pot life; 4 hour cure time.
- 3.2 lb. kit contains approx. 32 fl. oz. total material. Blue color; tin cure.

#82083 \$39.95

#90529 **Silicone Anti-Skid Bench Protection Mat** Two-sided 14" x 24" lab-quality mat provides a smooth, non-stick work surface for a wide variety of applications. Includes embedded magnets to hold small parts and components. Dishwasher-safe. **\$49.95**



#### General Purpose Casting Resins



Make parts fast...  
and faster

#### CR-300 Quick-Cure Casting Resin

- 1 minute pot life; 15 min. de-mold time.
- 2.4 lb. kit contains approx. 32 fluid oz total material. Cures to white color.

#81544 \$38.95

#### CR-600 Casting Resin

- 7 minute pot life; 30 min. de-mold time.
- 2.4 lb. kit contains approx. 32 fluid oz total material. Cures to white color.

#82057 \$38.95

#### ColorCast is the ideal resin for making detailed castings in color



#### ColorCast Pigmentable Casting Resin

- 3 min. pot life; 15 min. de-mold time.
- 2.4 lb. kit contains approx. 32 fluid oz total material.

#82133 \$35.95

ColorCast has the same properties as our water-thin CR-300 resin, but cures to a transparent neutral-amber color that lets you cast-in color by adding pigments (available separately).

Ten-to-One Mold Rubber is excellent for complex molds and casting thin sections



#### Ten-to-One / High Tear-Strength

- 45 minute pot life; 24 hour cure time.
- 2.2 lb. kit contains approx. 28 fluid oz total material (2 lbs. A/0.2 lbs. B). Tin cure.

#82663 \$49.95

Special formula is ideal for making durable molds, even those with thin sections and/or deep undercuts that put extraordinary stress on mold rubber when castings are removed. Mix 10 parts of A with 1 part of B by weight\* and pour into mold box.

\*#83825 **Digital Scale** is ideal for measuring #82663 Ten-to-One High Tear Strength Mold Rubber! **\$29.95**

#### High-Strength CR-900 is perfect for making thin, detailed castings



#### CR-900 High-Strength Casting Resin

- 20 min. pot life; 16 hour de-mold time.
- 2 lb. kit contains approx. 26 fluid oz total material.

#82659 \$39.95

CR-900 attains extra-high levels of strength and rigidity needed for very thin castings (less than 3/16"). 1:1 mix parts A and B. Cures to near-white color. Reaches ultimate strength in 48 hours.

Improved platinum cure RTV Silicone Putties are the fastest, easiest ways to make molds



NEW!

#### RTV Silicone Mold Putty

- Maximum mixing time is 3 minutes; total working time is 8 minutes; cure time is 30 minutes.

• Each 1 lb., 2-part kit contains approx. 11 fluid oz total material. Platinum cure. In order to provide maximum versatility for makers, we now offer our easy-to-use, 1:1 mix ratio RTV Mold Putty in 3 different Durometer (hardness) levels. The higher the "Duro" number, the harder the rubber mold when cured. Delicate patterns require the flexibility of lower Duro putties to prevent damage to both the pattern and the casting when making the mold and when de-molding. The best results for harder, stiffer patterns designed to produce straight, strong castings are achieved with higher Duro putties. Our RTV Putties capture exceptional detail when casting with resins, plaster, wax, low-temp metals and more. **\$38.95 per kit**

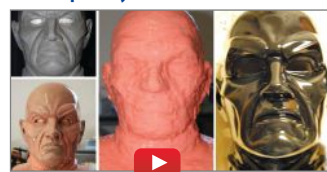
#91141 RTV Silicone Mold Putty 25 (soft)

#91144 RTV Silicone Mold Putty 35 (med.)

#91142 RTV Silicone Mold Putty 50 (hard)

#91144JP Micro-Mark Jig Putty 35 (med.) safely and securely holds fragile, delicate, and irregularly-shaped items while you drill, sand, file, engrave, saw, paint, etc.

#### Expand Your Casting Creativity with these Specialty Products from Smooth-On



#88551 **Rebound™ 25 Mold Rubber** is an easy-to-use platinum-cure silicone rubber which self-thickens for making brush-on molds of almost any model. Perfect for subjects with deep undercuts, can be applied vertically without sagging, and cures with negligible shrinkage to a soft rubber mold. 4 thin layers are all that is needed. 20 minute pot life; 6 hour cure time. 2 lb. kit. **\$39.95**

#### #88558 Smooth-Cast® 326 Colormatch Pigmentable Resin

This fast-cast, 1:1 mix resin was developed specifically for adding color pigments to achieve true color representation. Formulated "color neutral," small amounts of pigment will yield accurate, vivid colors using 50-Strong® pigments. 9 minute pot life; 60 minute cure time. 1.9 lb. kit. **\$29.95**

#### MICRO-MARK CASTING RESINS...

Are user-friendly, water-thin, odorless, and pour easily, resulting in perfectly formed, bubble-free castings. Just mix equal volumes of A and B together and you are ready to go! Each resin product provides excellent reproduction quality, and can be painted, sanded, sawn, filed, tapped, milled and drilled. These resins are compatible with all mold-making materials, including latex, clay and RTV silicone, and may even be used as a super-strong glue for bonding metals, soft woods and plastics. Resistant to fuels, acids and most chemicals when cured, non-tacky, and with no oily residue after curing like other casting resins. Each resin product includes complete instructions.



#### Our Complete Resin Casting Starter Set Has Everything You Need in One Convenient Package

#82698 **Complete Resin Casting Starter Set** includes one each of the following:

- ONE-TO-ONE / Rapid Mold Rubber
- CR-600 Casting Resin
- Rubber-to-Rubber Mold Release
- Modeling Clay
- Mixing Set
- Rubber-to-Resin Mold Release

Set ships by ground to 48 contiguous U.S. only.

Value \$126.50 ... Our Price **\$99.95**





**#90791 Smooth-On EpoxiCast 690 Clear Casting Resin** is an optically clear casting epoxy, ideal for making a rigid, crystal-clear finished product. EpoxiCast 690 may be colored with SpectraLuce color tints. Mix ratio is 10 parts A to 3 parts B by weight. Recommended casting thickness 2"/5 cm max. 5 hour pot life; 24 hour cure. 2.2 lbs. total material; 2 lbs. part A and 0.60 lbs. part B. **\$59.95**

## Casting Your Own Metal Figures, "Minis," Fittings, Accessories and More Has Never Been This Easy (and Fun)!

Taking the idea of a metal foundry and reducing it to desktop-size, our Mini Melting Pot is ideal for casting your own metal figures, "Minis," components, accessories and more. This unit is also perfectly suited for tinning wires to create clean, strong solder joints. With a footprint of only 6" x 3.5" and 2.5" high, our self-contained, free-standing melting pot features a built-in heating element capable of producing temperatures from 100°F to 600°F, temperature control knob, and a 2" diameter x 1" deep boiler, all enclosed in a compact metal housing with non-slip rubber feet and a 53" power cord which plugs into standard household outlets.

**#91014 Micro-Mark Mini Melting Pot \$29.95**

**#88397 Casting Ladle**, 8.75" long with wood handle; max. temp. 800°F **\$19.95**

**#83093 Casting Metal**, Type 280 (7.5 oz / 1.35 cu. in.) **\$19.95 2 or more \$17.95 ea.**

**91014K Micro-Mark Mini Melting Pot Super Value Package**

**Package includes:** #91014 Micro-Mark Mini Melting Pot • #86226 One-To-One / Express Mold Rubber, 32 fl. oz. • #81853 Silicone Putty, 1 lb. • #80352 Mixing Set • #82415 Mixing Set • Three pieces #83093 Casting Metal, Type 280 (7.5 oz / 1.35 cubic inch) • #80475 Rubber-to-Rubber Mold Release, 2 oz • #88397 Casting Ladle • #90965 Micro-Mark Magnetic Silicone Work Mat • #80965 Metal Casting Booklet. Value \$279.39 **Super Buy \$189.95\***



**Attention Boardgamers:**  
Our Mini Melting Pot is ideal for creating your own Minis for Warhammer, Malifaux, Infinity, Guild Ball, Dreadball & more!

## Casting and Mold-Making Accessories

### Highly Concentrated Opaque Pigment

Requires only 2 or 3 drops per ounce of resin for full color. Can be blended into an infinite number of custom colors. Compatible with epoxy, polyester and our ColorCAST urethane casting resin. 1 oz squeeze bottles. **\$11.95 each**

**#82134 White**

**#82136 Red**

**#82140 Yellow**

**#82135 Black**

**#82138 Blue**

**#82141 Brown**

**#82139 Green**

**#83094 Set of all 7 pigments SAVE! Value \$83.65 \$49.95**



#80475



#80476



#84191



#82415



#82664



#83671



#83177



#80352

### #80475 Rubber-To-Rubber Mold Release

Required when making two-part RTV molds. Keeps mold halves from sticking together. 2 fl. oz. Not for use with resins. **\$12.95\***

**#80476 Modeling Clay** A special synthetic clay that will not contaminate silicone rubber. Use for containing flow of RTV during mold making and for making simple molds. 1 lb. **\$13.95**

**#84191 Rubber-To-Resin Release Liquid** Brush-on release agent prevents resin-cast objects from sticking to mold rubber. 2 fl. oz. **\$23.95\***

**#82415 Mixing Set** Includes 24 two-ounce capacity plastic mixing cups (calibrated in quarter-ounce increments up to 1.5 oz) and 24 stir sticks. **\$18.95**

**#83671 Xtend-It** replaces moisture-laden air with a dry gas, increasing the shelf life of polyurethane products up to 4x or more. Net weight 10 oz (ships by ground to 48 contiguous U.S. only). **\$39.95\***

**#82664 Rubber-To-Resin Mold Release** Makes it easy to remove resin castings from molds. 12 oz. spray (ships by ground to 48 contiguous United States only). **\$21.95\***

**#83177 Silicone Mold Rubber Thinner** Are your molds capturing every detail? Our thinner reduces the viscosity of silicone mold rubber so it will flow more easily into the intricate details of complex patterns. Add up to 15% by weight to silicone rubber part A. 1 lb. **\$23.95**

**#80352 Mixing Set** Includes six 8 oz calibrated plastic mixing cups, six stir sticks, 3 brushes. **\$7.95**



Plate steel, iron, copper, brass, bronze and tin

Cast metal engine AFTER

Cast metal engine BEFORE

Note: to plate die cast or pot metal parts, you must first apply a base of copper.

**#83082**  
Nickel Plating Kit

**#83083**  
Copy Chrome™ Plating Kit

**#83248**  
Copper Plating Kit for die cast & steel

**Solution Refills, 8 oz – \$24.95 each**

**#83085** Nickel solution

**#83086** Chrome solution

**#83249** Copper solution

\*Ships by ground to 48 contiguous United States only.

## Metal Casting

### Cast Your Own Metal Parts with Our Low-Temperature Casting Metal

Cast small metal parts with fine detail using our casting metal and materials. No foundry is needed – just melt the metal in a ladle held over a flame and pour into a silicone rubber mold. Save money by casting your own ship fittings, miniature figures, toy wheels, model railroad detail items, dollhouse hardware and more... and have fun doing it!

**#83093 Type 280** Tin/bismuth alloy; lead and cadmium free. Melts at approx. 280°F. Can be melted with small butane torch. One 7.5 oz nugget (1.35 cubic inches). **\$19.95 2 or more \$17.95 each**

**#80966 Industrial Talc** Used to de-air molds for even metal flow. A must for use with RTV rubber molds. Approx. 2 oz. **\$4.95**

**#80965 Metal Casting Booklet** Informative booklet explains how to make molds and successfully cast small metal parts with Micro-Mark products. **\$5.95**

### The Best Way to Heat Low Temp Metals for Casting



#60909

Micro burner sits on your bench top, providing the ideal flame for heating low-temp casting metals in a ladle (#88397, sold separately). Flame intensity is adjusted by turning the knob. Includes built-in igniter. Non-tipping base is 3" diameter. Works continuously for 1 hour at max. temp of 2400°F.

**#86534 Micro Burner**

List \$50.00 ... Our Price **\$39.95**

**#60909 Butane Fuel** (42 grams) **\$7.95\***

**#88397 Melting and Pouring Ladle**. Steel with wood handle. 8-5/8" long with 1-1/4" diameter bowl. **\$19.95**

Pour the metal into a silicone rubber mold to form your own castings



Micro-Mark  
A Guide to  
Casting Metal in  
Rubber Molds

#80965



#86534

### #86793 Mini Metal Foundry Super Value Package

Learn how to cast low-temp. metals and make your own metal pieces and parts.

**Set includes:**

- #86226 One-to-One/Express Mold Rubber • #83093 Casting Metal Type 280 (3 pieces)
- #88397 Casting Ladle
- #80965 Metal Casting Booklet
- #86534 Butane Micro Burner
- #60909 Butane Fuel
- #80966 Casting Talc
- #80475 Rubber-to-Rubber Mold Release.

Value \$156.60

**Super Buy \$124.95\***





These User-Friendly Casting and Mold-Making Materials from **SMOOTH-ON** Provide AMAZING Results for Props, Special Effects and More!



**#88555 FlexFoam-IT!**™ X is ideal for a wide variety of special effects props including rocks, bricks, swords, knives, hammers, etc., plus scenery, cushions, and so much more. Mix 1:1, pour into a mold, and FlexFoam-IT quickly expands approx. 6x, then cures to a solid, yet flexible white foam. 50 second pot life; 2 hour cure time. Ventilation and safe handling required. **\$28.95\***



**#88559 Smooth-Cast™ 6SD Semi-Rigid Urethane Resin** cures quickly to a semi-rigid plastic that offers excellent abrasion and impact resistance. 1:1 mix ratio and low viscosity. Suitable for roto-casting and tinting. 2.5 minute pot life; 15 minute cure. 1.9 lb. kit. **\$29.95** For best results, use with **#86627 Ease Release 2831** **\$38.95\***



**#88560 Smooth-Cast™ ONYX™ SLOW** urethane resin cures at room temperature to a deep black, hard, solid plastic. Ultra-black and darker than competitive black resins, ONYX can be polished and buffed to a high gloss shine. And, unlike other black resins, ONYX is mercury-free. 1:1 mix ratio with very low viscosity. 5 minute pot life; 90 minute cure time. 2.2 lb. kit. **\$32.95**



**#88556 Ecoflex™ 00-20** is a versatile, easy-to-use platinum-catalyzed silicone. Certified Skin Safe, cured Ecoflex™ is very soft, super strong and may be stretched to many times its size without tearing, then rebound to its original form without distortion. 1:1 mix ratio. 30 minute pot life; 4 hour cure time. 2 lb. kit. **\$39.95**



**#88557 Dragon Skin™ 10 FAST** is THE time-tested, versatile material for creating everything from amazing skin effects to medical prosthetics to production molds. Soft, super-strong and very stretchy, cured Dragon Skin™ 10 is Certified Skin Safe. Infinite color effects can be achieved by adding Silc Pig™ or Cast Magic™. 1:1 mix ratio. 8 minute pot life; 75 minute cure time. 2 lb. kit. **\$39.95**



**#88550 Free Form™ AIR Lightweight Epoxy Putty** This low-odor, low-shrinkage 1:1 mix putty is unique and easy to use. Strong and rigid, but so lightweight it will float when cured. It can be pressed into a mold, sanded, shaped, drilled, tapped, machined and routed. Dries to gray. Accepts any paint and may be tinted with 50-Strong® pigments. 1.8 lb. kit. **\$39.95**

## Our Micro-Mark Cosplay Construction Materials, Tools and Tool Packages are Innovative Game Changers You Won't Find Anywhere Else

### Micro-Mark MTP™ Moldable ThermoPlastic is the Ultimate Heat-Formable Construction Material



MTP™ captures far more detail than Worbla when pressed in a mold



What non-toxic, solvent-free material cuts easily with a scissor, is self-adhesive and forms like magic with heat, can be layered, carved, sculpted and even laser-cut, and has virtually zero waste because scraps can be reincorporated and reused? Micro-Mark MTP™! Imported exclusively for Micro-Mark, our MTP™ (Moldable ThermoPlastic) is the same material professional costumers and prop makers from Broadway to Hollywood rely upon for creating the most realistic, highly-detailed, rigid, light-weight and extremely durable simulated armor, weaponry, props, sculptures and more. Sand color, 1 mm thick sheets.

#### ALL MICRO-MARK MTP™ SHIPS FREE!

**#89001** Micro-Mark MTP™ Jumbo, 39.25" x 59" sheet **\$74.95**

**#89062** Micro-Mark MTP™ Large, 19.5" x 29.5" sheet **\$24.95**

**#89063** Micro-Mark MTP™ Medium, 9.8" x 14.5" sheet **\$19.95**

**#89064** Micro-Mark MTP™ Small, two 5" x 10" sheets **\$9.95**



Helmet made with CosFoam™ and MTP™



These light-weight, wearable fantasy horns are made of Micro-Mark Foam Clay and painted with Micro-Mark Acrylics.

**#91069 Micro-Mark Foam Clay, 500 g** Light-weight, sculptable, moldable, and intuitive, Micro-Mark Foam Clay can be used to create almost anything. Ready-to-use right out of the bag, you can tear off a piece and get to work. Sculpt it freehand or with tools, press it into a mold or onto textured surfaces, roll it out and cut it into shapes. This non-toxic, odor-free, non-staining material does pretty much whatever you want. Once dry, it can be painted, weathered, glued, etc. You can also build fresh Foam Clay onto existing creations. Just keep in mind that the material will shrink a bit as it dries. Trial and error experimentation will yield the best results, but the fun factor begins as soon as you open the bag. **\$9.95**



**#84433K Thermoplastic Workstation Package** Use the foot switch to turn the heat gun on and off while your hands are busy shaping and forming. Silicone Mat allows you to press and shape thermoplastic without sticking. **\$59.95**



**#89204 Cosplay Mini Belt Sander Package** This is the most efficient tool you'll ever use to contour, smooth, and create the finest beveled edges in EVA foam. Set includes Mini Belt Sander, 12V Transformer, 80 and 120 grit sanding belts. Step up to the best! **\$164.95**



**#89297X2 Plasti-Dip** is what the pros use to coat EVA foam pieces before applying paint. Matte black; TWO 11 oz spray cans. **\$22.95** Ships by ground only.



**#89094 Micro-Mark Cosplay Airbrush Super Value Package** Chosen for its value, versatility, ease of operation and near-silent running, this high-quality package brings together our own Dual-Action Airbrush (trigger controls both airflow and line thickness) and the Whisper Air Compressor. Ideally suited for cosplay, this impressive set works equally well for creating professional paint jobs on armor, weaponry and more, and for flawless application of special effects and costume makeup. Value \$180.00... Our Price **\$169.95**



**#89206 Micro-Mark EasyFlo™ Contact Cement Dispenser Set** eliminates the mess, waste and overwhelming fumes while applying contact cement to EVA foam. Use for the neatest, cleanest joints you've ever made! Set of five 4 oz bottles with caps. **\$11.95**



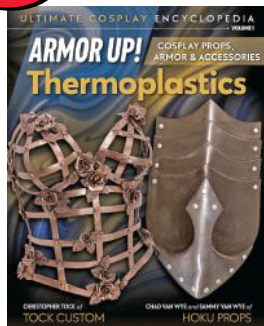
**#89205 Micro-Mark MagiCut™ EVA Foam Scalpel Package** provides surgical precision and 10 times the amount of clean, smooth cuts in EVA foam vs. ordinary hobby blades. Includes ergonomic handle and 10 carbon steel no. 11 scalpel blades. **\$14.95**



**#90468 Cosplayer's Ultimate Guide to EVA Foam, by Beverly Downen** Turn your wildest costume dreams into reality! Whether you are a master-level cosplayer or brand-new to making costumes and props, this is the ultimate reference guide to using different kinds of EVA foam and other up-to-date materials. Make epic costumes, accessories, props, and other amazing projects! **\$29.95**



**NEW!**



**#91136 Armor Up! Thermoplastics, by Christopher Tock** This first volume in the Ultimate Cosplay Encyclopedia series includes everything you need to know about working with plastics and synthetic materials. From basic to expert-level tutorials, key professionals guide you to create the base piece and polish the finished product with techniques on modifying, color, heat forming, and detailing with modern materials. When heated, thermoplastics harden to form a firm shell. Cosplay swords, shields, and more have a high-quality look and feel with the modern materials and pattern-making covered in this great book. **\$29.95**

### Flitz Polish Does It All!



**Micro-Mark Tip for railroad modelers:**  
Polishing railheads with Flitz promotes electrical contact and protects against corrosion for months.

Flitz is the universal polish that cleans, shines and protects aluminum, stainless steel, brass, copper, chrome, gold and silver. It's also an excellent fiberglass cleaner, and it restores painted finishes as well. Use Flitz paste anywhere; especially on vertical surfaces and other places where a liquid could drip, spill or run.

**#60436 Flitz, Polish Paste 1.76 oz \$11.95**

**#86638 Flitz, Liquid Polish, 7.6 oz \$17.95**



**#91150 Micro-Mark Performance-Pro Cleaning & Polishing Cloths, Pack of 3** Throw away all those t-shirt scraps, old socks and tattered towels – these cloths clean and shine like a champ! Micro-Mark Performance-PRO Cleaning & Polishing Cloths are woven from the finest double-sided premium quality microfiber material. Soft texture creates sheen and luster when used to buff surfaces. Lint free cloths remove dust, dirt, fingerprints, grease and oil and leave a streak-free finish on most surfaces. Tightly interlocking weave and generous 16" x 16" size make them perfect for transporting your prized models to shows, meets and conventions. Durable, washable and reusable. Pack of 3 cloths. **\$15.95**

## If You Can Imagine It, You Can Create It – with Hot Wire Foam Factory Cutting and Sculpting Tools

Unleash your creativity! There has never been an easier way to sculpt anything, from scale model railroad scenery, to 1-to-1 architectural elements to larger-than-life-size creatures and more. With these easy-to-use tools, inexpensive, ordinary light-weight foam can be cut, shaped and transformed into virtually anything you can dream up. There has never been a quicker, more cost-effective way to bring your vision to reality. And, with our variety of finishing products, the pieces you create can even be made to withstand the elements outdoors.



**#87709 Pro Model 5-In-1 3D Deluxe 24" Table Kit** Need to do scroll cutting, routing, milling, and lathe cutting? You will get all that and more in this ultimate multi-function professional foam cutting system. Kit includes 3D Deluxe 24-Inch Table • 3" Hot Knife, Sculpting Tool, Precision Engraver and Freehand Router • Variable-Heat Pro Power Station • 11.5" Vertical Blades; allow unlimited length horizontal cuts • Ultra-fine 8" Precision Blades; slice foam paper thin • 10" Router Blades; can be bent with fingers to any shape • Ribbon Blades for cutting foam moldings • Stationary Fence for controlled slicing • Unique Traveling Fence for controllable complex angles • Second horizontal rod for overhead milling operations • Instructional DVD • Printed instructions. **\$349.95**

**#87637 4-In-1 Pro Model Kit with Variable-Heat Pro Power Station** One of the most popular foam cutting tool kits – not only



See our website for our full line of individual Hot Wire Foam Factory tools, finishing supplies, accessories and more!

because it's a great value, but because it's got everything you've ever needed for your foam projects, big or small. Kit includes 3" Hot Knife, Sculpting Tool, Precision Engraver and Freehand Router • Power Station • 85-minute Hot Wire Foam Factory DVD • Large, sturdy carrying case • Printed instructions. **\$209.95**

**#87932 Pro Scroll Table Kit** Our Heavy Duty Pro Scroll Table has 30% more power than the light duty version sold by others. This extra power allows the use of a larger diameter wire that you pre-form into any desired shape. Kit includes L-shaped Scroll Table • Stationary Fence for precision cuts and paper-thin slicing • Traveling Fence for complex angle cutting and for shaping cylinders and cones • 4 Pro Scroll Blades • 4 Precision Pro Scroll Blades • Variable-Heat Pro Power Station • Instructional DVD • Printed instructions. **\$149.95**

### Self-Powered Economy Hot Wire Tool for Basic Foam Shaping

Hot wire slices up to 5" deep into styrene foam board up to 4" thick. Comfortable handle has spring-loaded trigger for on-demand instant heating. Includes 2 contoured rods, 2 adjustable collars, .010" diameter wire, and 120VAC plug-in transformer.

**#82104 Economy Hot Wire Foam Cutter \$39.95**

**#82115 Extra .010" diameter cutting wire (4' long) \$5.95**



### Portable, Powerful Mini 3 Gallon Wet/Dry Vacuum is a Must-Have for Every Shop

Versatile and lightweight, the Micro-Mark Mini 3 Gallon Wet/Dry Vacuum not only has plenty of cleaning power to keep your shop neat and dust-free, it does double duty as the power source and waste-free grit collection unit for your MicroLux Grit Blaster (#82775, sold separately). Includes: vacuum head unit with integrated top-carry handle, tip-resistant collection tank with integrated locking handles and 4 free-rolling wheels, and water-protected On/Off switch, plus 1-1/4" x 53" flexible hose with twist-lock connector, two 16" extension tubes, floor/upholstery head, 2-in-1 crevice nozzle with brush, and reusable dry filter. Vacuum is approx. 16" tall x 12" in diameter; 8.5 lbs. **#90533 Micro-Mark Mini Wet / Dry Vacuum \$74.95**

**#81064 Mini Vacuum Attachment Set** All the mini attachments you need for cleaning even the most delicate items in areas where a regular vacuum cleaner would never fit. Set includes adapter, straight and curved extensions, oval brush, round brush, crevice tool and 36" long x 1/2" dia. hose. Fits any standard-size vacuum with 1-1/4" fittings. **\$9.95**



For even greater versatility, miniaturize your vacuum further with the optional **#81064 Mini Vacuum Attachment Set**





## Make Your Own Decals the Easy, Inexpensive Way

Create your own railroad names, logos, stripes, road racing emblems, stained glass windows, signs, aircraft and military markings and other custom artwork faster and at a fraction of the cost of custom decal services. Copy any pre-printed design, use any computer drawing program, or create your own artwork with ink and paper. Then, print out your artwork onto the blank decal paper using a computer printer or copy machine. Our decal paper works like any other water-slide decal. Just cut out the decal, dip in water, and slide it into place on your project. Use clear decal film for most lettering and graphics; use white decal film when white is needed as a background color. Each sheet of decal paper is 8-1/2" x 11". Complete instructions included. *Note: Decal Papers have been tested in most brands of printers, but the user must determine compatibility with their own equipment.*

See our website for more information, instructions, and a video demo on producing and applying your own decals using Micro-Mark products.

### Inkjet Printer Clear Decal Paper on white backing

#82272	#82273	#82274
5 sheets \$9.95	25 sheets	100 sheets
2 or more \$7/pkg.	\$44.95	\$139.95

### Inkjet Printer White Decal Paper on white backing

#82277	#82278	#82279
5 sheets \$9.95	25 sheets	100 sheets
3 for \$7/pkg.	\$44.95	\$139.95

### Laser Printer Clear Decal Paper on blue backing

#82370	#82371	#82372
5 sheets \$9.95	25 sheets	100 sheets
3 for \$7/pkg.	\$44.95	\$139.95

**Note:** All decal printing requires a fixative spray to protect printed material from water damage in the application process. See below.

**#82858 Fixative Spray** A clear glossy acrylic that keeps inkjet- and laser-printed images from smearing or washing off. 6 ounce spray can. Not for use with Alps printers. **\$8.95\***

**#82463 Testors Flat-Finish Spray Coating/Fixative** formerly called Dullcote; protects all printed images. 3 oz. **\$8.95\***



**#82859 Inkjet Try-it Pack** includes one each clear/white and white/white inkjet decal paper sheets, plus one spray can of clear acrylic fixative. **\$14.95\***

## Decal Finishing System is the "Solution" for Perfect Decaling



Decal application can make or break an otherwise flawless model. Put decals on properly, and they become one with the surface of your model for ultimate realism; put them on wrong, and your model is ruined. Give yourself the professional's advantage with our Decal Finishing System. Made by Microscale Industries, this Micro-Mark Exclusive Set includes one ounce each of: Micro Set, to soften decals and improve adhesion or to remove decals; Micro Sol, to "melt" decal film onto irregular surfaces; plus Micro Flat, Micro Satin and Micro Gloss non-yellowing, water-based top coats for that perfect final finish. See our website for individual refills.

**#88676 Decal Finishing System \$29.95**

**#86791 Inkjet Decal-Making Super Value Package** includes: Clear Inkjet Decal Paper (5 Sheets), Glossy Lacquer Fixative Spray (3 oz), Squizzers, Decal Scissors, 2 Sponge Applicators, Flat/Smooth Decal Tweezers, Decal Finishing System, Palette, Golden Eagle Paint Brush (#4, Flat) **See website for full details** Value \$78.85 ... **Super Buy \$59.95\***

## Add Raised (3D) Rivet Heads and Other Details to Any Surface...Easily, Quickly and Economically!



We've developed a way to produce realistic scale-size rivet heads and other surface details, 3-dimensioned and contoured, on the surface of our blank decal paper. To use, simply cut out and apply like any other water-slide decal...it's that easy! Apply to virtually any material under or over paint. Each package contains over 108 square inches (**2 BIG decal sheets**) of several different rivet patterns in both straight lines and curves, plus bonus louvers and grillwork. Although described below as for HO or O scales (typically for model railroad applications), they are useful across numerous scales. Made in the USA.

**#84985 HO Scale Rivet Decals \$18.95**

**#84987 O Scale Rivet Decals \$18.95**



**#84781 Adhesive Transfer Tape** Clear acrylic, reverse wound, pressure-sensitive adhesive on a densified kraft paper liner. Apply, then peel off the liner to leave only the adhesive on the surface. Bonds a wide variety of similar and dissimilar materials with no mess or clean up. **One 36 yard roll, 3/4" x 2.0 mil thick. \$17.45**



**#85847 Decal Fix** by Acrylics Vallejo is a dull-finish clear acrylic coating specially formulated to hide the edges of decal film. Apply with a brush after the decal has dried. Set of two 17 ml (1/2 oz) dropper-top bottles (1 oz total). **\$8.95**



**#86891 Scale Motorsport Decal Magic Setting Solution** is biodegradable, non-toxic, and won't harm painted surfaces. 1 ounce wide-mouth, no-tip jar. **\$7.95**

## Squizzers...Perfect for Decals



These precision surgical scissors will cut out decals cleaner and closer than anything else you've ever tried.

**#81204 Squizzers \$32.95**

## Decal Blotter



**#85821 Decal Blotter** Sponge tip gently blots away excess water and helps position decals without damage. **Set of 2. \$11.95**

## Decal Tweezer



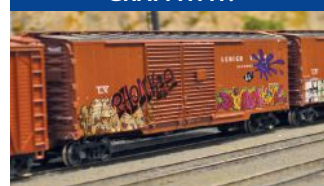
Decal Tweezer for perfect decal placement. Stainless steel. 4-1/2" long. **#60907 \$8.95**  
**#88588 Titanium Plated \$12.95**

## The Professional Way to Decal



**#89670 Micro-Mark Decal Application Station** This handy desktop tool makes it neat and easy to apply decals by keeping everything contained in one compact, convenient place. Just pour some water into the bottom well, then use the built-in handle to lower the platform and dip the included foam sponge in the water. Raise the platform and place your decal on the moistened sponge until the carrier releases, then slide the decal into place on your workpiece. Also includes a handy non-marring plastic tweezer that stores behind the handle and non-slip rubber foot pads to keep the station from sliding while you work. Takes up only 7" x 3-1/2" (x 2" tall) of space on your workbench. **\$14.95**

## GRAFFITI IT!



**#88568 Micro-Mark Graffiti Decal Set** Colorful, bold graffiti is part of the modern landscape and adds that extra level of realism to your models and scenery. Our unique, custom designed Graffiti Decal Set provides an impressive array of 32 different designs and 3 different sizes - 194 individual decals in all - spread over four 8-1/2" x 11" sheets of our clear waterslide decal paper. Decals are provided ready-to-use, so all you have to do is snip, dip and slip into place on your model! Includes instructions. Use for any scale. **\$24.95**



**#29100 Tamiya Panel Line Accent Color** gives scribed panel lines and recesses a more realistic appearance of depth. This pre-mixed black enamel paint is diluted to the ideal viscosity for easy application with the included bottle cap brush. Once dried, any excess may be cleaned up with enamel thinner. **Sold in a case of six 40 ml bottles. \$44.95**





## Tamiya "Work Stand" Turns Any Table Top into a Complete Model Builder's Workstation...Instantly!

The 12 x 18 inch work surface incorporates a well for decal water and a holder for paint brushes, plus storage space for paint bottles, glue and more. The fully adjustable overhead arm is equipped with 6 brilliant LEDs and a large 2x magnifier to provide extraordinary viewing of your model during construction and finishing. Optional spring clips (our #83828) fit into slots in the base to hold parts during assembly and painting. Work surface can be fitted with a cutting mat (sold below). Convenient carry handles let you clear the table without disturbing your work-in-progress. Made of sturdy engineering polymers with a crystal-clear acrylic lens and ON-OFF switch for lamp. Includes rubber feet to protect table surface.

**#83827 Tamiya Work Stand \$159.95**

Base size: 17" wide x 14-1/2" deep. Nominal overall height: 12". Magnifier size: 6" wide x 4" deep. Battery for lamp (4 D-cells), cutting mat, tools, model and supplies not included.

### Optional Accessories

**#36133 8-1/2" x 12" Self-Healing Cutting Mat \$24.95**

**#83828 Spring clip part holders (Pkg. of 8) \$14.95**



## Micro Sprue Cutting Plier



Micro-Mark Modeler's Micro Sprue Cutting Plier is the perhaps the most versatile tool you will find for removing plastic parts from their trees. Low 10-degree cutting angle makes the cleanest flush cuts, even in the tightest locations. Super-sharp, ultra-thin blades minimize parts breakage and shear the most delicate sprues with zero distortion and stress-free cutting action. Unique stop-pin limits opening action as desired and spring return handles have the just-right feel of a finely-tuned instrument. Durable blades have a hardened cutting edge. For plastic sprues only.

**#88288 Micro Sprue Cutting Plier \$24.95**

## Tamiya Basic Tool Set for Plastic Models and Crafts



Set contains the basic, indispensable tools for model and craft work. A pair of side cutters for plastic, angled tweezers, small Phillips and flat head screwdrivers, a craft knife and a file; all neatly packed in a handy plastic case.

**#90635 Tamiya Basic Tool Set \$29.95**

## Tweezer-Like Nipper Desprues the Tiniest Parts



A gentle squeeze is all that's required to safely separate even the tiniest molded part from its sprue. Finely-ground double-honed tips reach into the tightest locations and flush cut the plastic so that further clean-up is not required. Custom made for Micro-Mark of the highest-quality satin-finish stainless steel. For use on plastic sprues only.

**#82393 Despruing Tweezer \$19.95**

## Inkjet Decal-Making Super Value Package



Everything you need to make your own custom decals.

**Package includes:** #82272 Decal Paper for Inkjet Printers (5 Sheets) • #82858 Acrylic Gloss Fixative Spray (6 oz) • #81204 Squeezers Decal Scissors • #85821 Sponge Applicators • #60907 Flat/Smooth Decal Tweezers • #88676 Decal Finishing System • #81742 Palette • #60416 Golden Eagle Paint Brush (#4, Flat).

**#86791 Inkjet Decal-Making Super Value Package**

Value \$98.65 **Super Buy \$59.95\***

## Cut Plastic Faster, Cleaner, Safer



**#82131**

Plasticutter **\$7.95**

2 or more **\$5.95 ea.**

## Tri-Edge Seam Scraping Tool



There are others available, but this is the only one we've tested that really works! No other tool smooths glue seams or removes parting lines and flash better than our Tri-Edge Seam Scraping Tool. The 3 super-sharp cutting edges are precision ground tool steel. The scraper is held firmly in the finely contoured lacquered handle. Has a 3" long tapered tip scraper blade and 4" long handle. Also deburrs aluminum, brass and other soft metals.

**#89334 Tri-Edge Seam Scraper \$15.95**

## Special Chisels Easily Remove Unwanted Plastic Details



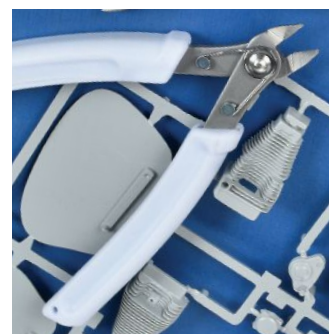
Available in 4 mm & 2 mm widths

Upgrade plastic models by removing unsightly, out-of-scale molded-in details sometimes included by manufacturers. The hand-ground cutting edge easily removes unwanted details and the sturdy, non-slip handle gives you precise control over cutting force. Made exclusively for Micro-Mark of polished, surgical-quality stainless steel, these chisels are also useful for mini woodworking projects. Approx. 6-1/2" long. *Note: The outer edges of the chisels may be rounded slightly with fine sandpaper or a honing stone to prevent gouging of surfaces in surrounding areas.*

**#80893 Plastic Modeler's Chisel, 4 mm wide cutting edge \$21.95**

**#82709 "Tight Spot" Plastic Modeler's Chisel, 2 mm wide cutting edge \$21.95**

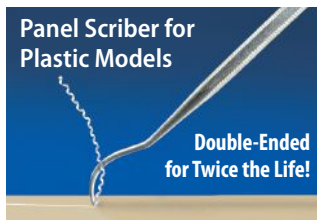
## Fujiya Cutting Plier is Like a Samurai Sword for Plastic



Through our exclusive partnership with Fujiya of Japan, Micro-Mark is proud to offer this exquisite cutting plier for the first time in the USA. Backed by over 90 years of exceptional craftsmanship, Fujiya tools are hand-finished and honed to perfection by skilled technicians. Fujiya tools are inspected for flawless alignment prior to packaging.

**#87609 13" Super-Sharp Sprue Cutter** Surgically clean slicing action glides through sprues with virtually zero stress, leaving the cleanest parts we've ever seen. For use with soft plastics such as styrene ABS, and other modeling thermoplastics up to 3/16" dia. Overall length: 5-1/4"; jaws are 3/8" long. **\$27.95**

## Panel Scribe for Plastic Models



Double-Ended for Twice the Life!

Use for making realistic-looking recessed panel lines on models. Other scribes just move the plastic so you get a mound on the side of the line like a plowed field. Ours actually removes a thin hair of plastic without distorting the plastic. Made of stainless steel with a knurled no-slip handle. **Has scribes on both ends so it will last twice as long.** Will work equally as well on half-hard brass and aluminum. 1/4" dia. x 6" long.

**#60728 Panel Scribe**

List \$24.50 ... Our Price **\$18.95**

## #90034 Tamiya White Modeling Putty

Praised by modelers for its high quality and ease of use, Tamiya's white-colored putty fills holes and seam lines, can be used on plastic, wood, or metal; and can also be diluted with lacquer thinner for a wide range of applications. Each aluminum tube contains 1 oz (32 grams) of putty. **Set of two 1 oz tubes. \$13.95\***





## Flush Cutter with a New Angle



Micro-Mark's uniquely designed End Nipper has a cutting edge that runs **across** the narrow tip of the plier,

not along the sides of the jaws. The nipper is used "straight-in," not from the side, and the cutting edge is less than 1/8" wide, so it fits in tight places. Sharp, durable cutting edges cut flush with the surface, so cleanup is not required. Rubber-coated handles provide a comfortable grip. Cuts off pins\* that protrude up to 3/4". Overall length: 5-1/2". Precision made exclusively for Micro-Mark by Xuron.

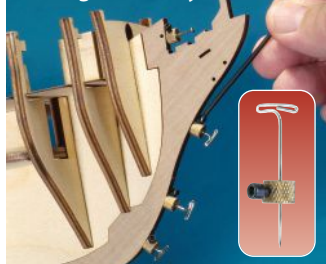
**#85916 End Nipper \$26.95**

*\*Designed for use on soft brass pins; not for use on harder materials, such as steel or music wire.*



**#88064 Electric Plank Bender** Place your strip on the wooden form and heat it by moving the plank bender over it several times, creating a perfect curve. Set includes soldering iron handle with round metal head, plus a wood pattern with 2 different curves. Made by Model Shipways. List \$43.74 ... Our Price **\$36.99**

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



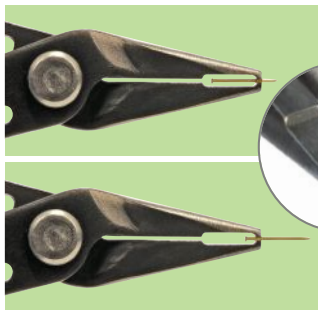
Pin collars are special fittings that lock into position on straight or T-pins. They hold parts in place during assembly when there is no room for traditional spring, bar or screw-type clamps. Set includes 20 collars, 20 Allen head cap screws, a ball-end hex key that works at an angle for easy access, plus instructions for use. Collars are 1/4" dia. Use with #14318 T-pins (below) or similar.

**#84419 Pin Collar Set \$16.95**

**2 or more sets \$14.50 per set**

**#14318 T-Pins, package of 50 \$7.95**

## Special Plier Makes Pin Insertion Trouble-free



### Another Micro-Mark Exclusive!

Our custom-designed Pin Insertion Plier drives micro-size pins without the troublesome bending and kinking that occur when using a regular plier. Unique slotted jaws with grooved tips let you securely hold a pin near its pointed end for kink-free insertion. After the pin is started, re-grip it and push again. Then use the flat tip of the plier to push it home. Comfortable rubber handles let you work for hours. Made by Xuron.

**#85282 Pin Insertion Plier \$26.95**

**#81844 Mini Nails**, ideal for use with above. 3/8" long x .020" diameter (pkg. of 100). **\$6.95**

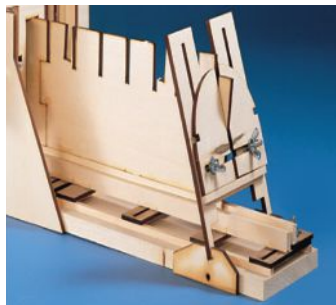
## The No-Fuss Way to Push the Tiniest Pins and Nails

Beautifully crafted and easy-to-hold, our Push Hammer eliminates the hassle of driving tiny nails and pins with a conventional hammer. Simply insert the nail or pin head-first into the spring-loaded barrel and push for straight, lightning fast results every time. Made to Micro-Mark specifications of machined brass and steel with hardwood handle. Overall length: 7".

**#83228 Push Hammer** for pins with head diameter up to 3/64" **\$18.95**

*Recommended pins/nails: #81844 and #14315. See our website.*

**#83227 Push Hammer** for nails with head diameter from 3/64" to 3/32" **\$16.95**



**#88058 Fair-A-Frame Building Slip/Alignment Tool.** List \$62.49 ... Our Price **\$49.99**

**#70223 Extra-Long Gluing Jig** is ideal for assembly of long projects. Includes 6" x 24", 21 gauge, rust-resistant flat steel plate and 8 magnetic holding plates. **\$24.95**  
2 or more **\$22.95 ea.**

**#60305 Extra Magnetic Plates** (8) for Gluing Jigs **\$12.95**



## Exceptional Quality Tools for Model Builders Who Want the Best



**#87863 7-1/4" Angled Rigging Scissor** This beautifully made, long-reach scissor features super-sharp tungsten carbide cutting edges and surgical quality, high carbon 420 stainless steel handles. 1" long, 45° angled tips allow superior access and the gold electro-polished ring eyes provide exceptional grip and control with unparalleled comfort. **\$44.45**

**#87860 4-piece Rigging Fingers Tool Set** Originally designed for use by surgeons, our single, double, triple and quad-fingered tools are perfect for the delicate and demanding art of model ship rigging. Overall length: 6.25" to 7.25". Two and three-fingered tools feature spring shanks for added flexibility. List \$105.95 ... Our Price **\$39.95**

## Tool Maker's Surface Gauge for Precision Marking



This precision device 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. 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 \$54.95 ... Our Price **\$39.95**

## Stainless Steel Scissors for a Lifetime of Use



**#14177 Dissecting Scissors** are actually surgically sharp dissecting scissors made of instrument quality stainless steel. Precision alignment cuts the thinnest material cleanly to the tip. Excellent for ship model rigging, decoupage, miniature fabrics and other needlecraft work. 4-1/2" long. **\$8.95**

**#88419 Black Rigging Line, Super Fine, by Infini Model**  
Made of Lycra-Only material. For 1/72 scale aero models and other applications. Easy and quick to use. 0.055 mm thick x 145 feet. **\$13.95**



**#20124 5-piece Probe Set**  
Surgical quality probes have hundreds of uses for model makers, crafters, jewelers, miniaturists and more. Excellent for manipulating model ship rigging, hooking springs and for ceramic detail work as well. Polished and hardened stainless steel with needle-sharp points. 6" long. **\$19.95**





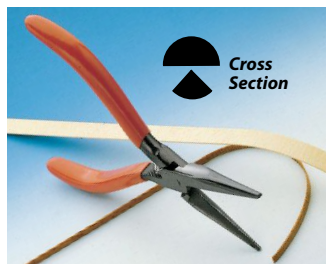
## Excel Ship Modeler's Deluxe Tool Chest



### #81504 Ship Modeler's Tool Set

includes: #1 and #2 knife handles, #5 knife and razor saw handle, scribing awl, needle nose plier, aluminum miter box, tweezers, sanding block and wedge, razor saw, 3 drills, 4 gouges, 15 knife blades and fitted wooden chest. List \$86.55 ... **\$64.95**

## Plank Bending Plier Forms Perfect Curves in Wood, Plastic and More



This well-designed tool will bend wood strips without special fixtures, hot irons or soaking in water. One jaw is ground to a triangular edge, the other is flat. When you place a strip of wood between the jaws and squeeze the handles, the triangular jaw crimps a V shape into the back side. Since the other jaw is flat, the opposite side of the strip stays smooth. The tighter the crimps, the tighter the curves. Works on stock from 1/32" to 3/32" thick x 3/4" wide x any length.

#60379 Plank Bending Tool **\$29.95**



## "Big Eye" Threads Needles, Deadeyes & Blocks with Ease

No more struggling to get thread through all those tiny holes when building ship models. The pointed end pierces fabric, so it's also a great tool for rigging sails. 2" long. Eye opens to 1/4".

#81009 Big Eye (Set of 3) **\$8.95**



### #80587 Beeswax Bars

Use for removing fuzz on ship model rigging thread. Also used to lubricate bits and saw blades for cutting metal. Three 1 oz. bars per pkg. **\$8.95**  
**2 or more \$7/pkg.**

## Mini Fingers for Ship Modelers

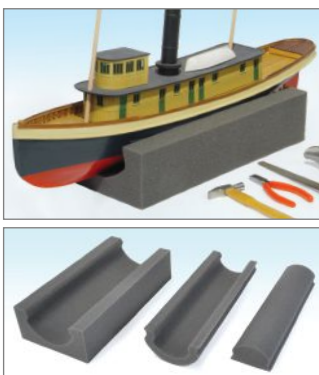


This set of rigging tools makes ship modeling's most difficult task a lot easier. You'll be able to retrieve, hook, position, tie, gather, maneuver, hold, fish, pull and reach rigging lines on any part of your model. Slim, 7" long handles keep your fingers away from lines you've already installed so you won't have to retighten lines and make repairs. Especially useful for tying lines to belaying pins, cleats, bitts and eye bolts. Steel shanks are set in smooth lacquered artist brush handles.

#60378 5-piece Rigging Tool Set

List \$30.00 ... Our Price **\$24.95**

## Triple Duty Foam Cradle for Ship Models



Our custom-designed Ship Cradle holds models while you build, decorate or repair. Concave shape holds large scale models and, with the included insert, adapts to hold small-scale models as well. Use convex shape when you want to work on the entire hull. Safely tip the model in the cradle for access with the superstructure installed. Durable CNC-cut foam rubber holds hulls from 2-3/4" to 5-1/2" (beam) gently, yet securely. Includes all 3 pieces. Overall size: 7-1/2" wide x 3-1/2" high x 15" long. Convex shape: 3" wide.

#85819 Model Ship Foam Cradle

List \$24.95 **\$19.95** 3 or more **\$14.95 ea.**

## Loom-A-Line Makes Ship Model Rigging Fast, Neat and Easy



#60529 Loom-A-Line rigging jig helps make perfectly spaced lines with equal line tension and neatly tied knots. Off-the-model assembly lessens the chance of damage to pre-installed parts. Made of high impact plastic with 30 brass studs. 10" x 8". Instructions included. **\$19.95**

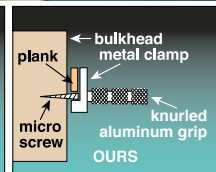
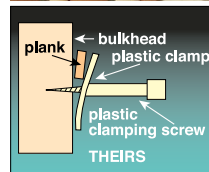
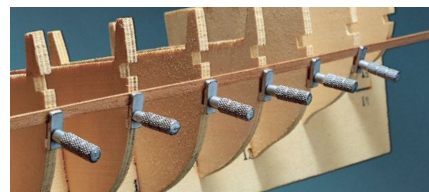
## The Best Way to Clamp Ship Model Planks

These all-metal planking clamps hold ship model planks tight against the bulkhead until glue dries. The unique stepped clamp design holds the plank against its full surface so you'll get neater, tighter fitting joints, and the knurled aluminum finger grip makes turning a lot easier. The micro-size wood screw is press-fit into the finger grip and will hold in bulkheads as thin as 1/8". 1-1/4" long x 1/4" diameter. Set of ten.

#60926 Planking Clamp Set

**\$24.95**

2 or more sets **\$19.50/set**



## The Best Vise for Ship Modeling



From hull construction to rigging, this special vise's cast aluminum base with ball swivel positions your model at the best angle for easy access to all components. Holds plank-on-frame and solid-hull models by the keel; holds plank-on-frame models by the bulkheads for "upside-down" planking. Two molded nylon vises hold keels or bulkheads up to 1/2" thick and are adjustable along the 15" aluminum bar to accommodate almost any size model. Can be mounted to workbench with wood screws (not included) or with C clamps (included).

#60530 Ship Modeler's Vise **\$92.95**

The easiest way to form planks yet! Simply arrange one row of the adjustable formers to the desired shape and soak planks in hot water. When pliable, place the planks against the first row of formers and slide the second row against the planks to hold them tightly in place. When dry, planks will be permanently formed. Forms up to 5 planks at a time. Made of water resistant acrylic with 10 nylon formers and cap nuts, zinc plated screws and no-slip silicone rubber feet. Approx. 5" x 5" with 1" high nylon formers.

#60663 Plank Forming Jig. List \$30.00 **\$24.95**

## Plank Forming Jig



## Ship Modeler's Tight Spot Rigging Scissor



Special scissor has cutting edges that pass between ratlines, backstays and other standing rigging for easy trimming of interior lines that other scissors can't reach. Serrated teeth grip thread for no-slip cutting. 8" overall length (narrow part of "neck" reaches 4-1/2"). Made of surgical stainless steel.

#84737 Tight Spot Scissor **\$24.95**

## Ratliner Shroud Building Tool by Model Shipways



Nothing works as well as this Ratliner to produce accurately scaled ratlines in the shortest possible time. Made of laser-cut MDF. Instructions included. Choose from three sizes available. **\$29.95 each**

#88061 Ratliner, 1:35 - 1:48 Scale

#88060 Ratliner, 1:64 Scale

#88059 Ratliner, 1:76 - 1:90 Scale

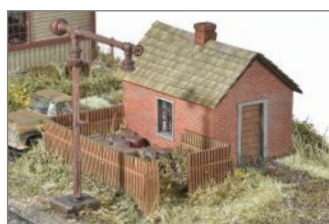




#89069 Standard PRR Brick Workshop kit, HO \$39.95



#88999 Standard PRR Freight Station kit, HO \$62.95



#89270 Standard PRR Oil House kit, HO \$24.95



#89091 Standard PRR Trackside Frame Shop kit, HO \$49.95



#88547 Keddies Roundhouse kit, HO scale \$254.95

#88826 Keddies Roundhouse Deluxe HO scale model kit with Turntable includes the Keddies Roundhouse kit above, plus Walther's Cornerstone Motorized 90° Turntable. Value \$529.90... Our Price \$499.95\*

**\$19**  
ADDITIONAL  
FREIGHT  
APPLIES TO  
ORDERS 48 STATES



#89855 Metropolitan Bike Share Bicycles with Stand, HO scale \$19.95/set of 6

**Fire Hydrants** These exceptionally detailed, 3D printed Fire Hydrants belong on every street from the suburbs to the cities, residential hamlets to industrial meccas. Simply remove them from their sprues and add some paint to bring them to life.

**Choose N, HO, or O scale, Classic style (left) or Modern style (right)**

#90254 N Classic #90253 N Modern \$17.95/pack of 18

#89967 HO Classic #89968 HO Modern \$17.95/pack of 10 2 or more \$15/pkg.

#89969 O Classic #89970 O Modern \$18.95/pack of 10



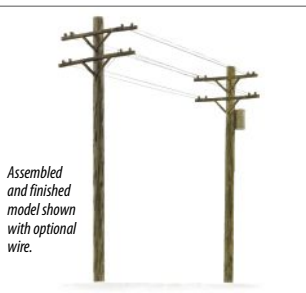
#88549 Reynolds Rigging Shop, HO model kit \$34.95



#88417 Old Hook Eye's Bait Shop with Dock, HO scale model kit \$29.95



#90153 Alto Tower, HO scale model kit \$89.95



Assembled and finished model shown with optional wire.

### #88398 Telephone Pole Kit, HO Scale

Laser-cut basswood telephone/power poles kit includes 12 poles, 24 cross arms and 2 transformers. \$12.95

#88829 HO Scale Telephone Pole Kit Bulk Pack Includes 120 poles, 240 cross arms, 20 transformers and 145' of black "wire." Value \$129.50... Our Price \$89.95

#89089 Telephone Pole Kit, O Scale Includes 10 poles, 20 cross arms and 2 transformers. \$19.95

#89089K O Scale Telephone Pole Kit Bulk Pack Includes 120 poles, 240 cross arms, 20 transformers and 145' of black "wire." Value \$213.45... Our Price \$179.95

#88419 Black "Wire" for Telephone Poles, 145' \$13.95



#89413 Willard's Service Station, HO scale model kit \$49.95



#89545 Protestant Church HO scale model kit \$57.95



#89546 Parson's Home, HO scale model kit \$62.95



#89547 Neighborhood Picket Fence, HO scale. No assembly required; 100 HO scale-feet long x 4 HO scale-feet tall. \$10.95



**HO and O Scale Mailboxes and Posts** Laser cut posts with resin 3D printed boxes. \$12.95/set

#89271 HO scale, set of 14

#89272 O scale, set of 7



#89564 Neighborhood Sidewalks, HO scale. No-assembly required; over 200 HO scale-feet long in 2.5 and 5 HO scale-foot widths. Includes two corner sections for each. \$14.95



#89586 Forklift Model Kit, HO scale \$21.95

#91042 Forklift Model Kit, N scale \$14.95

#88389 Wooden Pallet Kit, HO scale, includes materials to assemble 8 to 10+ wooden pallets. \$14.95



**Rural Farm Hay Barn Model Kit in N, HO & O Scale**  
#89699 N scale \$24.95 #88347 HO scale \$24.95 #89086 O scale \$44.95



**Rural Farm Outhouse Model Kit in N, HO & O Scale**  
#89697 N \$9.95 2 for \$7/kit  
#88345 HO \$12.95  
#89269 O \$19.95



**Rural Farm Horse Stable Model Kit in N & HO Scale**  
#89772 N scale \$18.95 #88485 HO scale \$29.95



**HO and O Scale Picnic Tables** Easy to build in minutes.  
#89148 HO Scale Picnic Tables, set of 18 \$14.95  
#89149 O Scale Picnic Tables, set of 9 \$14.95



#90167 Modern-Style Park Benches / Railroad Platform Benches kit, HO scale \$19.95/Set of 6



#90449 Branchline Milk Shed kit, HO scale \$29.95

#89707 American Heritage Models Melville Dairy Foods Divco Delivery Truck, HO scale \$19.95

#74781 Bachmann Dairyman's League 40' Refrigerated Box Car, HO scale \$37.95



#88523 Wooden Railroad Trestle Bridge, HO scale model kit. Laser-cut basswood; 16.5' long. \$39.95



## Scientific is Proud to Continue the Manufacturing and Sales of Iconic Laser-Art Model Kits

Scientific/Micro-Mark has been an innovator in the hobby industry for over 96 years. Beginning with model airplane kits in 1928, the company has grown and evolved, designing and producing unique tools, laser-cut model kits and structures, 3D printed scenic accessories and more for model railroaders and diorama builders. Sam Krutt, the owner/operator of Laser-Art, said that he and his wife Marilyn "appreciate the loyal customers of Laser-Art for over 25 years and we are confident that Scientific will continue the legacy."

**LASER-ART**  
by **SCIENTIFIC**

*All kits include laser-cut basswood components, plus Tichy doors, windows and roofing. Assembly required. Paint and glue sold separately.*



**A**



**B**



**C**



**D**



**E**



**F**



**G**



**H**

**A. Laser-Art by Scientific Creamery Model Kit** The prototype for this pre-1950s creamery was built at Clark's, near Campbell Hall, NY, on the New York, Ontario & Western Railway. Similar designs could be found throughout the Northeast United States. A perfect match to our HO Scale Ice House Kit, #41681 (see below). **#41680 HO Scale \$69.95**

**B. Laser-Art by Scientific Ice House Model Kit** This traditional-style ice house is based on a New York, Ontario & Western Railway design. Build it as a perfect match to our HO Scale Creamery (#41680, sold separately above), or put it to use as a stand-alone trackside structure on your layout. **#41681 HO Scale \$49.95**

**C. Laser-Art by Scientific Madison Cape House Model Kit** Homes like the Madison were built during the post-WWII housing boom. Classically styled yet modern, these small capes dot the landscape from coast to coast. Can be built with or without roof dormers. **#41811 N Scale \$29.95 #41611 HO Scale \$39.95 #41411 O Scale \$59.95**

**D. Laser-Art by Scientific Drayton House Model Kit** The Drayton House is based on a plan in the 1917 Aladdin Homes catalog. This quaint 2-bedroom bungalow-style house was one of Aladdin's smaller pre-fabricated designs. **#41824 N Scale \$19.95 #41624 HO Scale \$24.95 #41424 O Scale \$44.95**

**E. Laser-Art by Scientific Thelma House Model Kit** Featuring a distinctive covered corner front porch, the Thelma is another classic compact house from the 1917 Aladdin Homes catalog. This 5-room bungalow-style pre-fab is at home anywhere across the country. **#41819 N Scale \$24.95 #41619 HO Scale \$34.95 #41419 O Scale \$54.95**

**F. Laser-Art by Scientific Tucson House Model Kit** Another in our series of pre-fab houses from the 1917 Aladdin Homes catalog, the compact Tucson is at home on any layout. Kit replicates an early 20th century 2-story, 5-room Dutch colonial-style house. **#41839 N Scale \$24.95 #41639 HO Scale \$34.95 #41439 O Scale \$54.95**

**G. Laser-Art by Scientific Company House Model Kit** This replica of an early colonial farmhouse-style home is a basic 2-story, compact, single-family structure, featuring three upstairs bedrooms with the kitchen, dining room and living room downstairs. **#41805 N Scale \$24.95 #41605 HO Scale \$34.95 #41405 O Scale \$54.95**

**H. Laser-Art by Scientific School House Model Kit** This replica of a quaint small town school house can also be used as a library, community hall, or any number of other similar structures. **#41844 N Scale \$34.95 #41644 HO Scale \$44.95 #41444 O Scale \$64.95**

**Watch our website for more classic Laser-Art kits to be introduced!**

## NEW! Old West Model Kit Collection from Laser-Art by Scientific



**J. #41005 Laser-Art by Scientific Old West Sheriff's Office Model Kit, HO Scale** American frontier towns were protected by an appointed peace officer... the Sheriff. This laser-cut HO Scale reproduction captures all the detail of the Old West Sheriff's jailhouse and command station. **\$24.95**

**K. #41004 Laser-Art by Scientific Old West Gallows Model Kit, HO Scale** In the town square of every American frontier hamlet and burg stood the towering gallows. Whether used for weighing sacks of grain or minerals with the public scale, or for the executioner's moribund work, these wooden scaffolds were prevalent. This laser-cut wooden replica is perfect for your early steam-era layout or diorama. **\$14.95**

**L. #41006 Laser-Art by Scientific Old West Barber Shop Model Kit, HO Scale** In the days of the American Frontier, the barber not only cut, dressed, styled and groomed men's hair and beards, but also performed dentistry and surgery. The barber shop was where it all took place, including providing a space for public forums and debates. **\$24.95**

## Topside Creeper™ and Topside Creeper NXT™ Safely Extend Your Reach, Then Fold Away for Easy Storage

Use the Topside Creeper in your workshop, garage and train room to easily access hard-to-reach locations. The heavy-gauge steel frame, slip-resistant steps and thickly padded cushion provide the stability and comfort you need to safely complete even your most demanding projects.



**#83876 Topside Creeper**  
folds to 56" x 31" x 24"



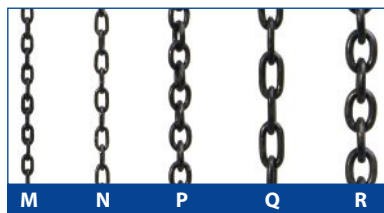
**#90052**  
**Topside Creeper NXT**  
folds to 48" x 32" x 11.5"

Frames are powder-coated to resist corrosion and scratching. Height is adjustable from 48" to 64". Both include tool pouch, protective bumpers and locking casters. Some assembly required. Capacity: 400 lbs.

**#83876 Topside Creeper**  
List \$349.25 ... Our Price **\$279.95\***

**#90052 Topside Creeper NXT**  
features "I" base design, providing more flexible positioning and storage options. List \$450.00 ... Our Price **\$349.95\***

## Miniature Chain for Models and Dioramas Enhances Realism



Micro-miniature sizes in matte-black finish for realistic looking, multi-scale use. Great for model ships, trains, military models, dioramas and more. Sold by the foot. Select size from the chart below.

**Mini Chain \$6.95/foot**  
**3 or more feet - \$5.15/foot**  
**6 or more feet - \$4.60/foot**

Fig.	Item #	Material	Pitch (in)	Links/Inch	Outside Dia. (in)	Wire dia. (in)
M	85271	Brass	0.050	20	0.045	0.013
N	85272	Brass	0.062	16	0.051	0.012
P	85273	Steel	0.064	16	0.084	0.020
Q	85274	Steel	0.115	9	0.088	0.025
R	85275	Steel	0.100	10	0.110	0.028

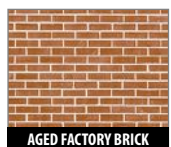


## Innovative Photo-Realistic Building Papers Look and Feel Like the Real Thing

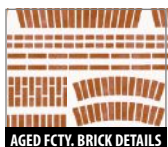


Micro-Mark again leads the way with innovative building papers that reproduce not only the look, but also the texture of brick, cinder block, stone and roof shingles on a scale model. Our building papers are exact scale photographs of real surfaces that have been printed by a special process that raises the surface of each individual stone above the "mortar" lines. No building paper or plastic sheet produced to date offers such realism! And for quick, easy application, we've applied a peel-and-stick adhesive to the back of the sheet. Accepts weathering powders and airbrushed colors for aging-effects.

**\$9.95/pkg. of four 6" high x 9" wide sheets 2 or more packages (same #) \$7/pkg.**



#84730 HO Scale  
#84731 O Scale



#84732 HO Scale  
#84733 O Scale



#83135 HO Scale  
#83136 O Scale



#83405 HO Scale  
#83406 O Scale



#83105 HO Scale  
#83106 O Scale



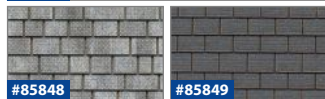
#83218 HO Scale  
#83219 O Scale

*\*Overall rough surface. Individual stones are not raised above mortar lines and shingles are not raised above gaps.*

### HO Scale 3D Roof Shingles



#85848



#85848

Three-dimensional laser-cut shingles, pre-weathered and factory-assembled into a 3" x 7-1/2" sheet. Attach to your roof sheathing with glue and trim to size. Includes 2 sheets. Choose from 2 styles below. **\$23.95/pkg.**

#85848 Gray Random  
#85849 Charcoal



#41001  
Tab Style



#41002  
Shake Style



#41003  
Fish Scale

### HO Scale 3D Roof Shingles in NEW Shapes and Colors!

Laser cut paper roofing shingles allow you to achieve a wide range of looks. 4" x 9" sheets offer limitless flexibility with easily removable rows that can be used by themselves, or even cut into individual shingles! Choose from 3 styles shown. **\$20.95/pkg.**

### High-Power Rare Earth Super Magnets Have Dozens of Uses

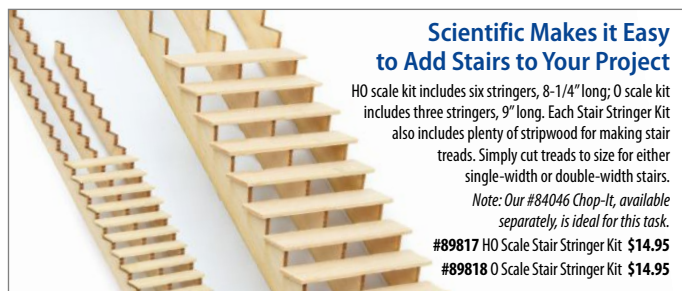


With massive pull force of nearly 6.5 lbs. each, these small but powerful Super Magnets are sure to find their way into all sorts of projects where a strong and durable – yet removable – closure, holder, etc. is needed. Magnets are only 1/8" thick x 1/4" wide x 1/2" long and magnetized all the way through. Great for cosplay and prop-making applications too!

**Railroad modelers:** Repower, restore and improve performance of old motors by replacing original Alnico magnets with Super Magnets!

*Ships by ground to 48 contiguous U.S. only.*

**#84991 Super Magnets (Pkg. of 20) \$19.95**



### Scientific Makes it Easy to Add Stairs to Your Project

HO scale kit includes six stringers, 8-1/4" long; 0 scale kit includes three stringers, 9" long. Each Stair Stringer Kit also includes plenty of stripwood for making stair treads. Simply cut treads to size for either single-width or double-width stairs.

*Note: Our #84046 Chop-It, available separately, is ideal for this task.*

#89817 HO Scale Stair Stringer Kit **\$14.95**  
#89818 O Scale Stair Stringer Kit **\$14.95**



#88429 6' Picket Fence, HO Scale Over 100 feet in scale length; laser-cut basswood. **\$12.95**  
#88477 6' Picket Fence, O Scale Over 100 feet in scale length; laser-cut basswood. **\$14.95**

**These exceptionally detailed, flexible textured sheets from Chooch Enterprises include peel & stick backing. To use, simply cut to desired size with a scissor.**



**Cobblestone Street**  
4" x 12.5"

#86424 Small (N & HO) **\$19.95**  
#86425 Medium (HO) **\$14.95**  
#86426 Large (HO & O) **\$14.95**



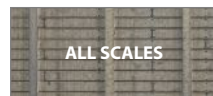
**Cobblestone Street Details**  
\$14.95/pkg.

#87220 Small (N & HO) 3.75" x 11.75"  
#87221 Medium (HO) 3.75" x 11.75"  
#87222 Large (HO & O) 4" x 11.75"



**Stone Block Wall**  
3.25" x 13" **\$14.95 ea.**

#86421 Small Blocks (N & HO)  
#86422 Medium Blocks (HO)  
#86423 Large Blocks (HO & O)



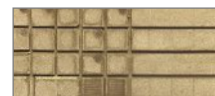
**Timber Retaining Wall**  
3.75" x 12" **\$15.95/pkg.**

#87398 .075" Board Width  
#87399 .115" Board Width  
#87400 .135" Board Width



**Blasted Rock Wall**  
\$15.95/pkg.

#87888 Rock, 3.6" x 11.5"  
#87889 Limestone, 3.5" x 11.5"  
#87890 Sandstone, 3.75" x 17.5"



**Concrete Sidewalks and Sidewalk Details**  
3.75" x 12" **\$14.95 ea.**

#89161 Concrete Sidewalks & Details, N Scale  
#89162 Concrete Sidewalks, HO Scale  
#89163 Concrete Sidewalks, Large, O Scale  
#89164 Flexible Sidewalk Details, HO Scale  
#89165 Flexible Sidewalk Details, O Scale



**All-Scale Coal Road**  
4" x 13" **\$19.95/pkg.**

#86411 Small Granules  
#86412 Medium Granules  
#86413 Large Granules



**Random Stone Wall**  
\$14.95 ea.

#85227 N & HO scale, 3.50" x 13"  
#85228 HO & O scale, 3.25" x 14"  
#85229 HO / O / G scale, 3.50" x 13"



**Cut Stone Wall**  
\$14.95 ea.

#85230 N & HO scale, 3.40" x 13"  
#85231 HO & O scale, 3.40" x 13.25"  
#85232 HO/O/G scale, 3.50" x 13.75"



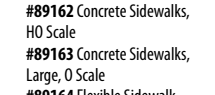
**Shake Roofing**  
3.75" x 12" **\$14.95/pkg.**

#87395 Small (N & HO)  
#87396 Medium (HO)  
#87397 Large (HO & O)



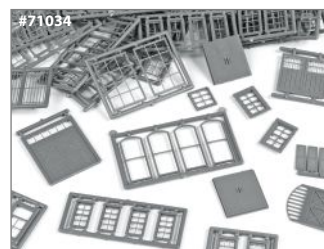
**Sea Wall**  
\$14.95 ea.

#87202 Medium (HO) 1.25" x 11.75"  
#87203 Large (HO & O) 1.75" x 11.5"



**See more Chooch products at micromark.com**

## Architectural Parts Assortments by Tichy Train Group



A wide variety of exceptionally detailed parts for constructing model buildings. Includes detailed illustrations to help you select the right parts for your project.

**#86934 164-piece N Architectural Parts Assortment** includes multiple pieces of 21 different windows, 12 different doors, 6 different architectural parts, plus pre-cut window glazing. List \$38.00 ... **\$36.95**

**#86935 80-piece N Scale Door & Window Assortment** includes one sprue of every door and window style Tichy makes. **\$17.95**

**#71034 200-piece HO Architectural Parts Assortment** includes multiple pieces of 10 different doors, 43 different windows and 36 different architectural parts. List \$40.00 ... Our Price **\$35.95**

**#71034G Glazing Pack for #71034** Includes pre-cut clear plastic glazing for all windows and doors included in the parts assortment above. **\$9.95**

**#71035 130-piece HO Architectural Parts Assortment** includes multiple pieces of 11 different doors, 21 different windows and 10 different architectural parts. List \$28.00 ... Our Price **\$26.95**

**#71035G Glazing Pack for #71035** Includes pre-cut clear plastic glazing for all windows and doors included in the parts assortment above. **\$8.95**

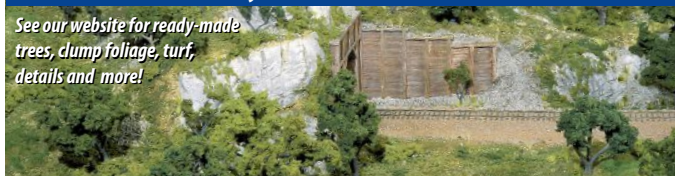
**#85216 200-piece Parts Assortment for O Scale** includes a variety of injection molded styrene doors, windows, lamp shades, star washers, nuts, bolts, ring washers, pallets and 55 gallon drums. List \$70.00 ... Our Price **\$62.95**

**#84106 60-piece Parts Assortment for O Scale** includes same parts selection as above, with less pieces. **\$27.95**



## Scenery makes the difference!

See our website for ready-made trees, dump foliage, turf, details and more!

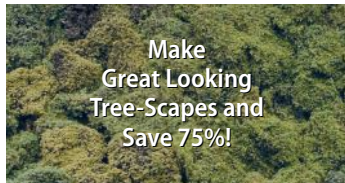


**Static Grass** Grass-colored fibers that tend to stand up when applied to scenic terrain. Truly realistic! 1 quart shaker bottles. **\$14.95 ea.**

#82361 Wild Honey  
#82364 Light Green

#82362 Harvest Gold  
#82365 Medium Green

#82363 Burnt Grass  
#82366 Dark Green



Make  
Great Looking  
Tree-Scapes and  
Save 75%!



Tree-covered landscapes made with our poly fiber are more dramatic and more realistic than those made with olive-colored fiber. Just pull out tufts of fiber and dip into **#85043 Scenery Cement**. Dust on some turf and instantly have great looking tree tops to glue to your mountainside. Our fiber is knot-free, so it's easy to pull out a tuft. Ounce-per-ounce, it saves you 75% over the cost of name brand fiber...you get over 4x the amount of material for the same price. 12 oz by weight. **\$19.95 ea. 2 or more (same #) \$17.95 ea.**

#84907 Black Poly Fiber #84922 Green Poly Fiber

## Slow-Motion Switch Tender is Quiet, Dependable, Easy to Install

The Switch Tender, mounted under the layout, uses a quiet, slow motion 12VDC gearmotor and a simple, easy-to-install linkage to gently throw the switch...no special wiring required! The Switch Tender is so easy to install, you'll have your whole layout upgraded in no time. Designed for use with all scales of model trains.

Switch Tender includes motor, mounting bracket, linkage for before or after track installation, hardware, wiring diagrams and instructions. Overall height: 2.200" (55.88 mm). Overall length: 2.640" (67.06 mm). Overall width: 1.040" (26.42 mm). Current draw at 12VDC: 0.025a while running; 0.060a when stalled. **#83201 \$20.95 ea.**

Buy 10 - 24 **\$19.95 ea.** Buy 25 - 99 **\$17.95 ea.** 100 or more **\$15.95 ea.**

**#83257** Three-pole, double throw miniature toggle switch for activating Switch Tender and routing switch frog polarity. **\$6.95 ea.** 10 - 24 **\$4.95 ea.** 25 or more **\$3.45 ea.**

**A Micro-Mark Exclusive!**



## Animation Brings Your Projects to Life



What makes this high-torque, permanent magnet, DCC-compatible, 12V variable speed motor special? It is reversible\*, which means you have so many more options for creating special effects and visual interest. Lifetime-lubricated motor is designed to provide consistent, reliable service and long life. Depending on power supply, you can set it to run from 6 to 60 rpm. 1:76.8 reduction ratio • 5/32" dia. x 3/8" long output shaft • 0.47" drive shaft hole • 1" dia. x 2" long, plus 9/16" output shaft and collar. \*When wired with #83257 Toggle Switch.

**#87360 Animation Motor \$24.95**

**#83257 Toggle Switch (3-Pole, Double Throw) \$6.95**  
10-24 pcs. **\$4.95 each** 25 or more **\$3.45 each**

## You Need 'Em, We've Got 'Em!



Because these HO Scale Metal Coupler Covers are always in demand and not-so-readily available, we decided to produce our own to make it easy for you to get them and add them to your rolling stock fleet. Like their hard-to-find counterparts, Scientific's Metal Coupler Covers fit virtually all coupler styles and manufacturers. Use them to snap and lock couplers tightly into place, securing the connection between railcars. Provided in packs of 20. Couplers and rolling stock are not included.

**#90246 Metal Coupler Covers, HO Scale, by Scientific, Pack of 20. \$15.95**



Static King™ makes it easy to model large grassy areas and ensures static grass is applied vertically. The Static King has an ergonomic design and can be placed upside down for easy filling. It comes with different sieve sizes for creating a varied effect using 2 to 12 mm lengths of Static Grass. A divider allows the use of multiple colors and sizes at the same time for modeling realistic fields and other tall grasses.

**#88638 Woodland Scenics® Static King™ Static Grass Applicator \$99.95**

**#88677 Woodland Scenics® Model-Vac™** Model-Vac™ has the ideal suction velocity to pick up loose landscape materials and debris while leaving your layout's glued items behind. Plus, Model-Vac is easy to empty and won't damage excess material, making it suitable for reuse after collection. Though designed primarily for use on model railroad layouts, this ergonomic cordless vacuum is super-handly in tight areas and wherever standard vacuums are too big to go. Vac requires one 9V battery (not included). **\$24.95**

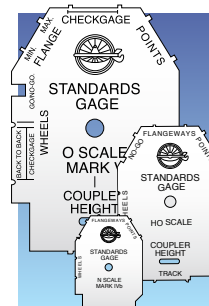


## Rail Nipper Track Cutter Cuts Track Clean and Square

Our rail nipper makes short work of making clean, flush cuts through model railroad track up to code 140. Spring-loaded steel jaws are hardened for a lifetime of rail-cutting. Thick rubber handles are comfortable to use.

**#86461 Rail Nipper Track Cutter \$19.95**  
3 or more **\$15.95 ea.**

Note: Picture shows the correct way to cut rail.



## NMRA Gages Assure Trouble-Free Operation of Your Model Railroad

These gages help you to make adjustments to rolling stock and track to end annoying derailments. They'll check for accurate track and switch dimensions, wheel spacing, flange depth, tire width and wobble. Gages also check for structure clearance so trains can pass without hitting tunnel portals, station platforms, scenery, etc. These are precision stainless steel measuring instruments manufactured by the National Model Railroad Association. Instructions included.

**#80752 HO Scale Gage \$27.95**

**#80753 N Scale Gage \$29.95**

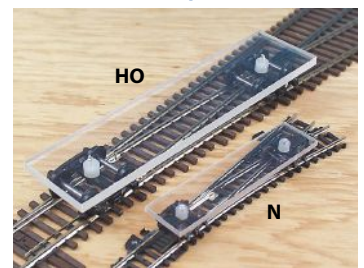
**#84632 O Scale Gage \$29.95**

## Track Inspection Cars Find Trouble Spots

The crystal clear floor of the car gives you the best view of wheelset movement through switches, around curves, and at rail joints, allowing you to quickly detect the location of problem spots which can hamper the smooth operation of your trains. Assembles easily in a few minutes. Includes trucks, hardware and instructions.

**#82414 HO Gauge Track Inspection Car with metal wheels \$15.95**

**#82120 N Gauge Track Inspection Car with metal wheels \$14.95**



**Block Micro Nails for Model Railroad Track**  
**#70209 1/2"; 300/pkg. \$7.95 2/\$5 pkg.**  
**#70210 3/4" 300/pkg. \$7.95 2/\$5 pkg.**

**Holder for Micro Nails**  
**#70218 \$3.95**



## The Scientific HO Camera Car is Back & Better Than Ever!



A Micro-Mark **Exclusive!**



Bring your layout to life with the Scientific HO Camera Car! This newly upgraded version enables you to enjoy first-person viewing of your miniature world on your smartphone or tablet. Includes free downloadable app that allows the camera to connect to your device over 2.4G WiFi for live viewing of your layout and the ability to record video and still photos to a micro SD card (not included) for later playback or transfer to other devices. The 4KUHD/1080p HD camera is mounted in a WalthersMainline® 53' RailGon open-top gondola car equipped with 100-ton roller-bearing trucks, Proto MAX™ metal knuckle couplers and topped with a gravel load. Includes gondola, camera and USB charging wire.

**#90154 Scientific Premium HO Scale Camera Car (Modern Era) \$124.95\***

## Micro-Mark UV Resin System is Designed for Makers



A Micro-Mark **Exclusive!**

Liquid resins that cure with ultraviolet (UV) light provide a fast, economical way to create incredibly clear, glass-like coatings, encapsulations, small lenses and so much more. These versatile UV resins can even be cast in clear silicone molds, and also be used to make strong bonds between materials. Basically, if UV light can reach the resin, it will cure.

Micro-Mark UV FlexCure Clear Flexible Resin and UV HardCure Clear Hard Resin require no preparation and are ready-to-use right out of the bottle. Unlike 2-part epoxy resins, there's no mixing necessary, and very low odor before curing (our UV resins are completely odor-free when cured). Additionally, our UV resins are self-leveling and self-degassing, curing to a smooth, crystal clear, glassy finish with excellent resistance to scratching, staining and yellowing. Because UV resins can only be cured by UV light, our resins have an exceptionally long work time and can be mixed with mica powder, colorants, glitter and more to obtain dazzling finishes. Once your resin is in place and you're satisfied your work is complete, simply apply UV light with our UV QuickCure Portable Resin Curing Station and in minutes your piece is fully cured and ready for use. If you decide you want to add more resin to your workpiece after it has cured, go right ahead. You can build up new layers without any trace. For ultimate versatility, you can also blend FlexCure and HardCure together in different ratios to achieve the desired hardness/flexibility for your project.

**#90741 Micro-Mark FlexCure UV Clear Flexible Resin, 100 ml \$13.95**

**#90742 Micro-Mark HardCure UV Clear Hard Resin, 100 ml \$12.95**

With an impressive array of 36 long-lasting UV LED lights, 4 timer settings, integrated fold-away handle and dual USB rechargeable, built-in lithium-ion batteries, our 60 watt QuickCure UV Portable Resin Curing Station gives you the power, portability and versatility you need to cure all of your UV resin projects, at your workbench and on the go. While its interior curing space offers ample room for most projects, its magnetically-attached metal base is easily removed to cure large and oddly-shaped UV resin items that do not fit inside the unit. Once you've created your resin object, choose the cure time that best suits your piece: 30s, 60s, 90s, or 99s low-heat mode, which gradually increases power to prevent crazing and uneven curing of thicker resin applications. Dual UV wavelengths, 365nm and 405nm, provide fast, complete resin curing. A large LED on the top of the unit displays a curing time countdown clock. When time is up, the lights turn off automatically. High-capacity internal batteries allow you to work for up to 8 hours on a single 4 hour charge. Or, work as long as you wish with the unit plugged in. Includes UV Resin Curing Station, detachable metal base, USB charging cable and instruction manual. Overall size: 22.5 cm x 20.5 cm x 9.5 cm.

**#90740 Micro-Mark QuickCure UV Portable Resin Curing Station \$69.95**



**#90759 Micro-Mark "Mr. Mist'r" Spray Applicator**  
Specifically designed for hobby liquids, our continuous spray, fine mist applicator distributes a powerful, evenly sustained mist of any hobby liquid. The ergonomically-shaped, easy-grip handle and trigger reduce hand fatigue and allow varied pressure manipulation to control spray duration. Apply a quick spritz or a prolonged misting! At a mere 7.8" tall, Mr. Mist'r holds a full 5.4 oz. Tilt it at any angle...even upside-down...to get at those hard-to-reach areas of your layout or diorama. Sturdy and durable, Mr. Mist'r is perfect for our Scenery & Ballast Cement, Railroad Tie & Bridge Stain, Age-it Easy, Hunterline Weathering Mixes, and more! **\$12.95**

## #89662 Trains® Magazine

"Union Pacific's Big Boys" is the complete story of the best-known, most-popular steam locomotives ever built, from their origins all the way through the much-anticipated restoration of No. 4014. This handsome hardcover edition, with a foreword by *Trains* editor Jim Wrinn, is the perfect reference book and collector's item! **\$44.95**



**#90657 Double-Edge Plastic Razor Blades, 100 Pack** Plastic razor blades are excellent at scraping off residue from various surfaces, even glass, without leaving any scratches. Perfect for delicate surface work and removing old, unwanted decals from plastic models. 0.040" thick, package of 100 blades. **\$16.95**



## Premium Display Cases by Scientific



See our website for complete details!

**#89888 Scientific 9" Premium Display Case.** Base: 10-1/4" long x 4-1/4" wide x 3/4" thick. Interior: 9-1/16" long x 2-13/16" wide x 2-1/8" high. 4" high overall. **\$59.95**

**#89889 Scientific 18" Premium Display Case.** Base: 19-1/4" long x 4-1/4" wide x 3/4" thick. Interior: 18" long x 2-3/4" wide x 3-1/4". **\$79.95**

A Micro-Mark **Exclusive!**



Makes a great go-anywhere precision pinpoint flashlight, too!

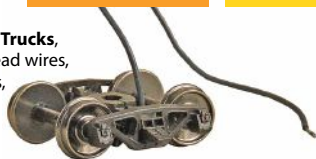
Uncouple locomotives and cars anywhere on your model railroad, even in total darkness!

**#89536 Micro-Mark UncoupleLITE™** Designed by our Product Development Team and manufactured exclusively for Micro-Mark, UncoupleLITE™ provides the easiest, most accurate way of uncoupling many HO, O, and N scale locomotives and cars (plus some N scale) at any location on your model railroad, even in total darkness. A click of the button sends a brilliant beam of cool LED light through the clear acrylic rod right to the tip of the tool, illuminating couplers with a clarity and focus no other tool can match for precision uncoupling action. To use, simply slide the tapered tip of the tool between the knuckles of the couplers and twist gently, smoothly separating the cars. With a lighted tip length of 4" and less than 1/4" dia. at its thickest, UncoupleLITE is also extremely useful as a precision pinpoint flashlight, providing focused, non-glare illumination inside machinery and confined areas where no other light can go. Includes 4" x 1/2" diameter stainless steel body with push-button on/off switch, removable 4" x 1/4" acrylic light rod, and key ring. Requires one AAA battery, not included. **\$19.95**

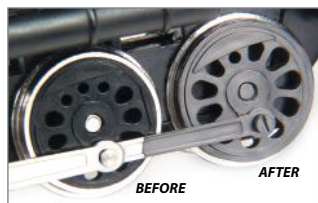




**#86527 Kadee® No. 590 HO Scale Bettendorf Trucks**, with etched-bronze axle wipers and electrical lead wires, pick up electricity from the rails to light cabooses, improve electrical pickup from locomotive tenders, or add auxiliary pickups for sound systems. One pair of HGC plastic trucks. **\$29.95**

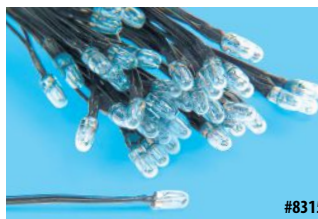


## Neolube™ Blackens Metal, Lubricates, Improves Conductivity



Neolube is a water-thin graphite-alcohol solution that brushes smoothly on metal surfaces and levels perfectly without streaking. When the alcohol evaporates, a thin, tough, dark matte gray coating is left behind that works like a dry lubricant, a metal blackener and an electrical conductor all in one. Neolube is ideal for creating a realistic appearance while improving electrical contact. 2 fl. oz. jar with in-cap brush. **#83181 Neolube \$27.95\***

## Grain-of-Rice and Grain-of-Wheat Lamps for Model Projects



#83155



#82590-4C

Grain-of-rice size (3/32" dia. x 3/16" long) lamps are specially manufactured for Micro-Mark with a 12V, 30ma rating so they can be wired directly to the function outputs of model railroad DCC decoders without fear of electronic overload or plastic-melting heat generation (with proper mounting and ventilation). Made of high-grade glass, with long-life filaments and durable 6" leads. Of course, they can be used for all types of micro-lighting applications. 40 lamps per package. **\$49.95/pkg.**

**#83155 Grain-of-Rice Lamps**, Clear (pkg. of 40)

**#83156 Grain-of-Rice Lamps**, 4 Colors (clear, red, green, amber; 10 each)

Grain-of-wheat size (1/8" dia. x 3/8" long) bulbs are packed in a 100-piece bundle to save you money. 12-14v. AC/DC. .075 amp. 6" leads. List \$49.95/pkg. Our Price **\$39.95/pkg.**

**#82590-4C Grain-of-Wheat Bulbs**, 4 Colors (clear, red, green, amber; 25 each)

## Transform Rough-Running Locomotives into Smooth Performers with Our Premium Quality Flat Can Motors

High-torque permag motors feature 3-pole, balanced armatures and oil-impregnated bronze sleeve bearings for smooth starting and low-speed running. Narrow profile "flat can" design easily fits into small spaces. Compatible with either straight DC or DCC systems.

See our website for full specifications and diagrams.

**#86529 Flat Can Motor Style 2430. CLOSEOUT! ONLY \$9.95**

**#86546 Flat Can Motor Style 2025. List \$19.95 CLOSEOUT! \$9.95**



## Soft-Touch Cradles for Modelers

Soft foam holds gently yet securely, protecting locomotives and rolling stock from damage while you paint, add details, assemble, apply decals, repair and weather even your most delicate models. Cleverly designed central groove holds projects at the optimal angle to see and work on every side of the model easily, comfortably and safely. Available in HO/O and Z/N scale.

**#86612 HO/O Cradle \$8.95 2 or more \$7 ea.**

**#86614 Z/N Cradle \$7.95 2 or more \$6.95 ea.**

**#80784 Original Soft Touch Cradle's** two different size "wells" hold HO and N scale models; keep small tools close at hand while you work. **\$14.95 2 or more \$12 each**



#86612



#80784

## The Long-Awaited Truck Spreading Plier is Here!

Manufactured to precise tolerances, these hand-ground, individually produced pliers are designed to slip between opposite ends of the wheel axle and backside of truck journal boxes when the jaws are nearly closed. A special compression spring offers just the right amount of resistance when you squeeze the plier, gently spreading the truck journals apart and causing the wheel set to effortlessly slip from the truck. Re-installation of the wheel set is just as easy. Great for use with our Truck Tuner, available separately below! For HO standard gauge trucks only.

**#87936 HO Truck Spreading Plier \$24.95**

**#87936T Titanium-Plated HO Truck Spreading Plier \$39.95**

**#90799 N Scale Truck Spreading Plier \$24.95**

See Our Website for Details!



## Truck Tuner Makes 'em Really Roll

Our Truck Tuner reconditions your HO gauge railroad truck bearings so cars roll smoother with less friction. Simply insert the tool in place of a wheelset and rotate the shank. Truck Tuner's extra-sharp tool-steel cutter reshapes the bearing to the NMRA's recommended 60° contour and cleans out burrs and grime. Repeat for all bearings and your car is ready to really roll. Increases train lengths that locomotives can pull by up to 20%! For HO standard gauge trucks only.

**#82838 HO Truck Tuner \$26.95**



A Micro-Mark Exclusive!

**#87936K HO Truck Tuner & Truck Spreading Plier Set** These two tools work perfectly together! Includes #87936 Plier and #82838 Truck Tuner. Value \$47.90 Our Price **\$39.95**

Adhesive foam pads on the back of the housing let you stick a lamp anywhere you need it...

in model structures, cars, boats, planes, trucks, dollhouses. Grain-of-wheat size clear LEDs glow with a bright white color. Overall size: 1/2" diameter x 3/4" high, plus 12" leads for easy hook up. Includes integral resistor for LED operation. Works on 8 to 16 volts DC. Sticks best to smooth surfaces. Package of 20 lamps.

**#86557 Peel & Stick LED Lamps** (package of 20). List \$39.95 ... Our Price **\$26.95**

*Note: Lamps require a power source. If not powered by layout connection, we recommend the optional items below.*

**#85501 6 amp 12VDC Power Supply. List \$39.95 ... Our Price \$34.95**

**#85554X1 2.1 mm adapter for use with LED Lamps and Power Supply above \$1.95**

**#89217 12V/1.5A Wall Adapter for #86557 Peel & Stick LED Lights. Features 2.1 mm x 5.5 mm female center-positive output connector, U.S. and European input clips. \$14.95**

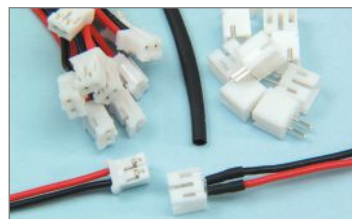
## Mini Peel & Stick LED Lamps Mount Just About Anywhere



## Mini Connector Kit for Model Electronics

Kit makes it easy to disconnect motors, lights and other circuitry located inside models. 2-wire miniature connector bodies are only 3/16" x 1/4" x 3/8" long when joined. Connector halves snap together to prevent accidental parting. Each connector assembles in just a few minutes. Includes 7" wire leads and heat-shrink tubing to prevent shorts. Requires the use of a wire stripper and soldering iron. 4 amp capacity. Package of 10.

**#83858 Mini Connector Kit** Value \$25.95 ... Our Price **\$15.95**



Connectors are small enough to fit just about anywhere!

## Micro-Miniature Connectors Fit in the Smallest Spaces

Supplied in strips of 32 pins on 0.100" spacing, you just snip off the amount you need, then solder on your lead wires. We also include the heat-shrink tubing to insulate and protect lead wire connections.

See our website for more information.

**#86559 Micro Connector Set \$18.95 2 or more sets \$16/set**



Stackable



## Use Our Car Routing System to Operate Your Layout Like a Real Railroad

With our Car Routing System and our instruction booklet (included), you'll learn how to use your railroad models in a manner that truly reflects their realism and capabilities. Our Car Routing System is realistic, flexible, and versatile, and requires no special equipment, such as a computer, to set up or maintain. And it's so widely used, many of your visiting operators will be already familiar with it.

**#82916 Car Routing System Starter Pack** Includes 100 each car cards, waybills, and bad order slips, 25 locomotive cards, 4 three-compartment bill boxes, plus basic instructions to get your operations started. **\$34.95**

Order refills and extra bill boxes below...

**#82910 Pad of 100 Car Cards.** Buff color, 2-1/8" wide x 4" high (folded). **\$3.95**

**#82911 Pad of 100 Waybills.** White color, 2" wide x 3" high, 4-cycled. **\$3.95**

**#82912X2 Pack of 50 Locomotive Cards.** Gray color, 2-1/8" wide x 4" high (folded). **\$3.95**

**#82913X2 Pack of 200 Bad Order Slips.** Pink, 2" wide x 3" high. **\$5.95 2 or more \$3/pk.**

**#82914 Three-compartment Bill Boxes** attach to layout fascia to hold car cards. Pkg. of 2. **\$15.95**

**#86083 Five-compartment Bill Boxes.** Package of 2. **\$20.95**

**#84019X2 Pack of 50 Empty Car Requests** for enhanced operation. 2-cycle Waybill on back. Light blue color. 2" wide x 3" high. **\$3.95**

Empty Car Request

## Make Perfect Grab Irons for Model Trains, Vehicles and Aircraft



Forget about trying to make grab irons with a plier. Our Grab Iron Bending Gauge is designed to quickly and easily form identical, precisely-sized grab irons from ordinary wire. Simply clamp your wire between the gauge's jaws at the selected size and bend to shape. Made of laser-engraved blackened CNC-machined steel for long life. Bends 21 sizes from .050" to 1.050" in .050" increments.

**#84745 Grab Iron Bending Gauge \$49.95**

### #82839 Spike Insertion Plier

is manufactured with special dies that form perfect T-shaped grooves in the jaw faces. The nose is specially contoured to push spikes home without slipping off and damaging the railhead or ties. Works with all brands and gauges of spikes Z-O. **\$26.95**

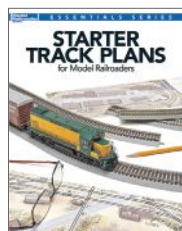


### #82840 Spike Removal Plier

has special die-formed jaws that grip spike heads securely and make removal easy. Just grab spike head and pull. **\$26.95**



**#90976 Micro-Mark Track Bending Plier** Specifically designed to help bend and shape HO and larger gauge track to your desired configuration and curve, making it easier to create custom layouts and track plans. Also adjusts kinks in track that has already been laid. Nylon jaws make smooth bends without marring. **\$16.95**



**#88448 Starter Track Plans For Model Railroaders** Perfect for small spaces and beginner layouts, this mix of HO and N scale track plans emphasizes simplicity, flexibility and interesting operation. **\$16.95**



## Car Weighting System Optimizes and Improves Model Railroad Performance



Optimizing model railroad locomotive and car weight helps to minimize derailments, increase pulling traction and maximize train lengths for a dramatic gain in model train performance. System includes a high-precision digital scale for weighing cars, 48 self-stick 1/4 oz lead weights, and a chart of optimum car weights based on NMRA specs. Easy to use with scales N - O. Scale features 11 lb. (5 kg) capacity with digital readout in 0.05 oz or 1 gram increments. Includes tare feature and auto shut-off to conserve power. 5" dia. platen.

**#84016 Car Weighting System** List \$46.60... Our Price **\$39.95**

**#83825 Digital Scale only** List \$40.00... Our Price **\$29.95**

**#82330 Stick-On Weights.** Package of forty-eight 1/2" wide, 1/4 oz. lead weights with self-stick adhesive backing. **\$14.45**

## Universal Cab Holster

Keep your DCC hand-held controllers safe and within easy reach. Our special version fits Atlas, CVP, Digitrax, Lenz, NCE and MRC Prodigy Advance/Express DCC cabs. Molded in durable black ABS. Attaches to your layout fascia with 4 screws (included).

**#84074 Universal Cab Holster \$6.95**  
**3 or more \$5.50 ea.**  
**10 or more \$4.50 ea.**



Cab not included.



**#86719 Midwest Products® HO Cork Roadbed** is lightweight, cuts and shapes easily, and offers excellent sound absorption. Beveled edges on each piece enhance realism when ballasted. Package of **twenty-five** 3/16" x 1-3/4" x 36" pieces. **\$49.95/pkg.\***

## Bright Bar Removes Tarnish and Rust

Abrasive impregnated rubber bar cleans model railroad track for better electrical conductivity. Also removes rust and tarnish on all metals and de-glosses plastic gently. 2" x 3" x 3/4". 240 grit.

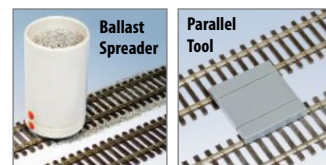
**#80437 Bright Bar \$8.95**  
**2 or more \$6 each**

## Deluxe HO Track Laying Tool Set

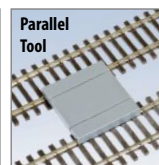
These unique and useful tools can help you have a quieter, smoother rolling layout without annoying derailments.

**#84114 HO 7-piece Deluxe Track Laying Set \$34.95**

7-piece Set Includes...



Evenly distributes ballast between rails and on sides.



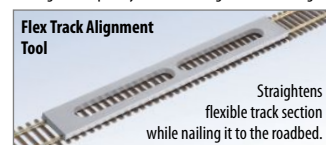
Maintains 2" spacing for two parallel tracks.



Provides a straight edge for cutting track squarely.



Prevents plastic ties from melting while soldering.



**Flex Track Alignment Tool** Straightens flexible track section while nailing it to the roadbed.



## 2-in-1 High-Precision Miniature Digital Level

**Measures grades** Carpenter levels are just too clumsy for measuring model railroad track grades and superelevation. So, we encased our high precision digital level in a compact housing that's only 2" square by 1" deep. At the press of a button, the large LCD reads the percent grade from

sea level. Embedded magnets attach it securely to cast-iron/steel surfaces for hands-free measurement. Range: 0 to 45°/100%. Readability: 0.05°/0.01%. Hold button remembers last reading. Housing made from durable CNC-machined, satin-finish alloy. Includes 9V battery and auto shut-off battery saver.

**#84519 Digital Level \$49.95**



### 3M Scotchlok "Suitcase Connectors" Eliminate the Stripping and Soldering of Under-Layout Wiring



Dubbed "Suitcase Connectors" by expert railroad modelers, these Insulation Displacement Connectors (IDCs) let you connect track feeder wires to main bus (power supply) wires without having to strip or solder. Simply place the connector over the wires and crimp the metal tab with pliers. The tab pierces the insulation and locks the wires together. Snap the lid shut, and you're done! Our IDCs are top-quality 3M Scotchlok brand.



**#84022 Suitcase Connectors (IDC #905 Red)** for bus sizes #14-18 (max insulation OD .145") with feeder sizes #18-22 (max insulation OD .110"). Package of 25. **\$12.45**



**#84023 Suitcase Connectors (IDC #567 Brown)** for bus sizes #10-12 (max insulation OD .190") and feeder sizes #14-18 (max insulation OD .145"). Package of 25. **\$22.45**



**#84109 Suitcase Connectors (IDC #558 Pink)** for bus and feeder sizes #16-22 (max insulation OD .120"). Package of 25. **\$17.45**



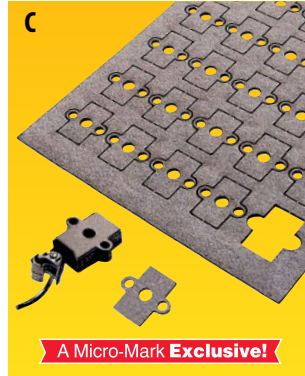
**#90246 Metal Coupler Covers, HO Scale, by Scientific, Pack of 20** Like their hard-to-find counterparts, ours fit virtually all coupler manufacturers and styles. Use them to snap and lock couplers tightly into place, securing the connection between railcars. **\$15.95**



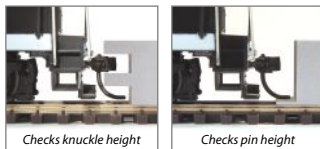
**#83524**



**#84231**

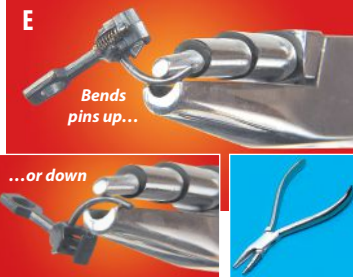


**A Micro-Mark Exclusive!**



Checks knuckle height

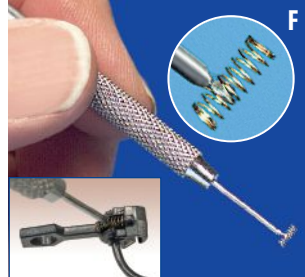
Checks pin height



Bends pins up...



...or down



### A. HO Scale E-Z Mate® Magnetic Knuckle Couplers Improve Your Model Railroad's Performance

E-Z Mate® Mark II Couplers are made of brown engineering plastic with steel trip pins and bronze coil springs in the knuckles for long life. Compatible with all brands of knuckle couplers. Medium-length centered shank fits the coupler boxes of most cars.

**#83525 HO Scale E-Z Mate® Coupler Standard Pack (12 pair). \$27.95**

**#83526 HO Scale E-Z Mate® package of 25 pair. List \$52.00 ... Our Price \$44.95**

**#86919 N Scale E-Z Mate® Couplers, package of 12 pair. List \$33.00 ... Our Price \$29.95**

**#83524 HO Scale Under-track Magnetic Uncoupler** sticks to bottom side of track with double-sided tape (included). Couplers "spotted" over magnet uncouple automatically. Includes scale figure to mark its location. Package of 6. **\$49.95**

**#86920 N Scale Under-track Magnetic Uncoupler** includes 1 N scale uncoupler magnet and 1 figure. **\$9.95**

**Kadee® Coupler Assembly Fixture #84231 HO Scale Fixture \$10.95** See our website for our full selection of HO & O scale Kadee® couplers.

### B. Uncouple Model Railroad Cars Anywhere Without Damage to Delicate Details

Our surgical stainless steel uncoupling tool slips effortlessly between coupler knuckles, then uncouples and gently moves cars away from each other with a simple twist of the fingers. Works on HO and On30 scale couplers, including Kadee®, E-Z Mate®, Intermountain, and standard horn-hook train set couplers. Includes protective storage wallet. **#80972 HO Uncoupling Tool \$6.95 2 or more \$5 each**

### C. Laser Cut Coupler Shims are a Real Time-Saver

Our laser-cut coupler shims are made of .025" thick insulation-grade compressed paper and are an exact fit for popular makes of HO and O scale coupler pockets, including McHenry, Kadee®, Weaver and Intermountain. They're easy to install and can be trimmed to fit tight locations. **#84905 HO Coupler Shims (75) \$18.95** **#84906 O Coupler Shims (60) \$19.95**

### D. Coupler Gauge Prevents Derailments and False Uncoupling of Trains

**#82824 Coupler Gauge for HO Standard Gauge and Bachmann On30 \$11.95**

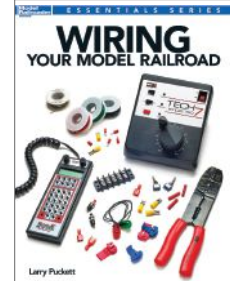
### E. Special Plier Adjusts Coupler Trip Pins

Adjust your Kadee® and Bachmann E-Z Mate® trip pins the easy, accurate way. Just place the pin between the jaws and squeeze. How hard you squeeze determines how far you'll bend the pin. Bends pins up or down. Plier is stainless steel with box joint construction.

**#80600 Trip Pin Plier for HO and O \$12.95** **#80892 Trip Pin Plier for N \$12.95**

### F. Reduce Stress with the "Grabber" for Kadee® and E-Z Mate® Coupler Springs

End unnecessary frustration and time lost searching for those tiny "fly away" springs! Our "grabber" holds, inserts and removes Kadee® and other micro springs with ease. Made of surgical quality stainless steel with a specially forged tapered ball end. 4-1/4" long. You'll wonder how you got along without it! **#81029 Spring Grabber \$8.95 2 or more \$6 each**



**#88453 Wiring Your Model Railroad, by Larry Puckett**

This is the first wiring book any modeler should buy, and is a great reference guide for experienced modelers as well. 128 pages. **\$21.95**



### Railroad Modeler's Deluxe Tool Chest

A great selection of tools for a wide variety of model building tasks. Set includes: 6" stainless steel rule, 2 needle files, razor saw, sanding stick, swiss hammer, snap knife, needle nose plier, swivel head pin vise, slotted and Phillips head miniature screwdrivers, 3 drills, #1 knife handle, #5 knife and razor saw handle, aluminum miter box, 3 knife blades and fitted wooden chest.

**#81501 Railroad Modeler's Deluxe Tool Chest. List \$96.55 ... Our Price \$76.95**



Push Hammer Drives a Nail with One Push

A fantastic tool that drives tiny, hard-to-hold nails in places an ordinary hammer head won't fit! Magnetized plunger holds nail until you're ready to push. Works on all steel nails up to 1-1/4" long x 5/32" head dia.

**#86272 Push Hammer \$14.95**

**#70209 Model Railroad Nails, 1/2" long (pkg. of 300) \$7.95**

**#70210 Model Railroad Nails, 3/4" long (pkg. of 300) \$7.95**



A Micro-Mark **Exclusive!**

## The MicroLux® Variable Speed Multi-Saw is a Power Coping Saw And Scroll Saw...All In One!

**Perfect for Hobbyists, Jewelers, Crafters and Do-It-Yourselfers!**

After 25 years in production, one of the most popular Micro-Mark saws ever offered has been re-engineered, making this already great saw better than ever!

**Packed with these great features:** Almost twice the stroke length – increased from .200" to .375" (3/8") • Integrated blower device provides a clean view of your sawing line • Elbow-jointed overhead yoke arm provides easy, fast (45 seconds or less) re-positioning of material being sawn; ideal for making complex interior cuts • Larger-size side compartment with tool-less push-button removal mechanism • Easier blade installation for quicker blade swaps • Improved vacuum port attachment design.

This is one of the few power saws in the world that can use coarser coping saw-type blades and ultra-fine blades for the finest cuts you've ever seen...re-designed and sized for hundreds of small projects. Cuts just about everything from balsa to pine, basswood, cherry, walnut, mahogany and other exotic woods to light gauge, non-ferrous materials...copper, brass, silver and other precious metals, aluminum, and plastics. It will even cut styrofoam without shredding or tearing!

Made in Japan for Micro-Mark, Multi-Saw features a 90 watt (1/10 hp) motor which runs on 110VAC household current. Variable speed: 500 – 1,700 strokes per minute. Overall size: 12" high x 13-1/2" wide (with vacuum adapter installed: 9-1/2" without adapter) x 19" deep. Weight: 7 lbs. Table size: 6-1/4" x 6-1/4" cast aluminum with smoothly machined surface. Multi-Saw cuts soft woods up to 2" thick, hardwood up to 1/2" thick, circuit boards and non-ferrous metals up to 5/64" thick.

**#87776 MicroLux® Multi-Saw** includes 6 premium blades: 2 fine (#80856) and 2 medium blades (#87937) for wood, plastic and metals such as aluminum, brass, silver, gold, plus 2 coarse blades (#80857), primarily for wood cutting; adjustable rip fence; 0–90° miter gauge; 2 C-style bench clamps for mounting the saw on work surfaces up to 1-7/8" thick; assorted mounting screws; extra-long hex key and set-up instructions. List \$260.00... Our Price **\$149.95**

**#87947 MicroLux® Multi-Saw Super Value Package** Includes #87776 saw, #81387 Easy-Mount Bench Bracket, #87607 "Big Book Of Scroll Saw Woodworking," plus 30 premium saw blades (10 each #80856, #80857 and #87937). Value \$270.70 **Super Buy \$209.95**

**#87947K MicroLux® Multi-Saw Accessory Value Package** Includes everything in the Super Value Package above except the saw. Value \$110.75 **Super Buy \$79.95**

**Premium-Quality Plain-End Saw Blades for MicroLux® Multi-Saw • 10 Blades Per Package • \$14.95/package**

**#80857** Premium Saw Blades for Wood; 17 tpi; .069" wide x .027" thick

**#87937** Premium Saw Blades for Wood, Plastic & Metal; 20 tpi; .040 wide x .016" thick

**#80856** Premium Saw Blades for Wood, Plastic & Metal; 40 tpi; .045 wide x .020" thick

## MicroLux® Miniature Table Saw is Ideal for Ultra-Miniature Sizes

A Micro-Mark **Exclusive!**

Designed specifically for rip-cutting narrow strips from sheet stock and for cross-cutting to close tolerances, the MicroLux® Mini Table Saw will even cut plastic, thin non-ferrous metals and printed circuit board with our optional fine-tooth blades.

**Features include:** Pivoting action clear blade guard for better visibility • Tool-less dust compartment door latch • Adjustable, angled vacuum port attachment • Built-in sliding scale on the table top for precise cuts • Wide-body, self-aligning rip fence with undercut clamp for more secure positioning.

**#87775 MicroLux® Miniature Table Saw**

Includes sturdy 6-1/4" x 6-1/4" stationary aluminum table, adjustable rip fence, 0–90° miter gauge, blade guard, dust catcher compartment, benchtop mounting holes, up-front on/off switch, standard blade (#50320, 2" dia. with 10 mm hole and 80 teeth), 3600 rpm, 1/10 hp, 110VAC motor with belt drive and 6' cord. Fixed-position 2" blade. Overall size: 9-1/2" wide x 7-1/4" deep x 4" high. Weight: 4 lbs. High-quality, made in Japan for Micro-Mark. List \$260.00... Our Price **\$139.95**

**#50320** Standard Saw Blade, 80 teeth, .040" kerf. For soft wood up to 3/8"; hard wood up to 3/16" **\$34.95**

**#15220** Fine Saw Blade, 100 teeth, .020" kerf. Produces extra smooth cross cuts (not for ripping). Cuts thin woods and non-ferrous soft metals up to 1/32"; plastic up to 3/32". **\$34.95**

**#86619** Carbide-Tipped Saw Blade, 20 teeth, produces a thin .043" kerf. Long-lasting, razor-sharp blade makes fast, smooth cuts in soft and hard woods – even plywood – up to 3/16" thick; PCB up to 3/64" and plastic up to 1/8". **\$34.95**

**#81387 Easy-Mount Bench Bracket** Custom-fit bracket includes hardware and instructions for securely mounting saws #80463, #87775 and #87776 to work tables up to 2" thick. Foam pads protect table surface. **\$39.95**

**#84446 Powered Detail Engraver** lets you carve and engrave the finest details in metal, wood, plastic and glass. And, because it's so lightweight (just 2 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 case. List \$30.00... Our Price **\$19.95**

**#84447** Diamond bits, 3/32" shank (pkg. of 2) **\$9.95**



## Portable, Cordless Hand-Held Vacuum Keeps Dust and Debris at Bay, at Home or Away

Compact vacuum unit is only 14.5" long x 2.5" diameter



**#90532 Micro-Mark Portable Hand-Held Vacuum** Sleek, light-weight and portable, this cordless, USB rechargeable vacuum is compact enough to keep at-the-ready in your shop, garage, office, car, etc., and powerful enough to do the dirty work – even in the tightest spaces. Internal HEPA filter traps the finest particles of dust, dirt and dander. Bag-less debris collection compartment is easily emptied...no bags, no hassles. Fast-charge compatible internal battery returns to full power in just 2 hours. Includes vacuum unit, attachment adapter, extension tube and small bristle brush attachment. **\$39.95**

## Foot Pedal and Table-Top Switches for Hands-Free Control of Your Power Tools



**#80766**  
On/Off

**#88343**  
Variable Speed

**#80766** This high quality industrial foot switch is ideal for use with scroll saws, disk sanders, drill presses, airbrush compressors, etc. Press pedal for "on," release for "off." Has no-slip rubber pads on both sides. 10 amp capacity, 6' cord. List \$70.00 **\$29.95**

**#88343** Table-top speed control for power tools lets you dial in the desired speed to suit the project at hand. 5" long x 5-7/8" wide; 2-3/4" high. 3 amps max. **\$109.95**





• Visit our website to see many more products in addition to those shown in this catalog.

• Go to our Closeouts department for incredible bargains on tools, supplies, kits and more – get 'em while they last!

• Sign up to receive special money-saving offers by email . . . all at **micromark.com**

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Get the Most Bang for Your Buck with these **NEW** Micro-Mark Super Value Packages!



**Figure Painting Essentials Super Value Package**

The all-in-one solution for finishing model figures to perfection!

**Package includes:**

- #88837 Micro-Mark Cutting Mat, 12" x 18"
- #88642 Micro-Mark Softback Polishing Sticks by Infini Model
- #29269 Micro-Mark Basic Color Acrylic Paint Set
- #90807 Deluxe Finger Palette by Galaxy Model
- #90238 Micro-Mark 7-piece Round Paint Brush Set

**#91169 Figure Painting Super Value Package**  
Value \$86.75 **Super Buy \$69.95**



**Super Value Package**

**Marker Master**

Take your marker artistry to a higher level with this all-inclusive set!

**Package includes:**

- #91061 Micro-Mark Paint Marker Airbrush Adapter System
- #91149 Micro-Mark Rechargeable Self-Contained Portable Air Compressor
- #29314 Micro-Mark 120 Color Double Tip Alcohol Marker Set

**#91171 Marker Master Super Value Package**  
Value \$141.85 **Super Buy \$119.95**

See more Super Value Packages on page 28 and throughout this catalog!

**N Scale Set-Up Super Value Package**



Ensure flawless operation of your N scale model railroad!

**Package includes:**

- #89536 Micro-Mark UncoupleLITE™ Lighted Uncoupling Tool
- #10116 MicroLux® 12" Stainless Steel Model Railroader's Rule for N, HO, S and O Scale
- #90799 Micro-Mark Truck Spreading Plier, N Scale
- #82120 Micro-Mark Track Inspection Car, N Scale
- #80753 NMRA Gage, N Scale

**#91170 N Scale Set-Up Super Value Package**  
Value \$106.75 **Super Buy \$89.95**

Amazing Working Model Kits Look and Function Just Like the Real Machines!



#91165



#91018



#90892



#91017

Appearing as if they just came out of functioning full-size aircraft and motor vehicles, these finely-crafted, precision-cast anodized aluminum alloy and stainless steel model kits assemble into the beautiful replicas you see here. Each of these exciting operating models is powered by a 3.7V built-in lithium battery (included) which sets the internal and external workings into motion. No gluing or painting is required; all components are pre-finished in the dynamic colors shown, and assembly is neat and clean with the provided hardware. Not only do these models offer great educational value in their illustration of how internal combustion engines work, they make excellent display pieces and conversation starters as well. Additionally, each model kit's components are packaged in a handsome metal case, perfect for gifting anytime.

**#91165 Teching™ Diesel Engine Metal Model Kit \$369.95\***

**#91018 Teching™ V8 Engine Metal Model Kit \$649.95\***

**#90892 Teching™ 4-Cylinder Engine Metal Model Kit \$429.95\***

**#91017 Teching™ 5-Cylinder Radial Engine Metal Model Kit \$379.95\***

219 exquisitely polished parts cast in finely crafted aluminum alloy replicate a scaled-down version of the precision machine sometimes referred to as a kowtow pump, which is widely used for underground oil extraction. This engaging learning tool not only makes a handsome working display piece, it is also the perfect kit for novice builders entering the exciting world of Teching™ metal models. Kit includes all necessary tools, hardware and instructions in an attractive gift box.

**#91166 Teching™ Beam Pumping Oil Pump Metal Model Kit \$159.95\***



\*Each model kit ships by ground to the 48 contiguous United States only.