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- Layout Tools
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Greetings from the President

Looking forward…to serving you

Over the past decade, we’ve made a lot of changes at General to grow our business. Those initiatives continue to bear fruit. Last year, they contributed—once again—to the best year we’ve ever had, both in terms of new product launches and revenue generated.

At General, the quality of our tools and instruments is something we work hard to improve every day. As an example of initiatives bearing fruit, take a closer look at the housing of our newest instruments. On them you’ll find many new compliance markings that represent the end result of many new QA and QC policies and procedures. You can feel more confident than ever that your new precision instrument from General meets or exceeds all industry-standard testing requirements.

Our QA/QC initiative has also yielded better instrument precision. This, in turn, has allowed us to add many more instruments to our NIST certification program. Our full-line catalog now reflects this important performance option by using the NIST logo to identify qualifying products. If your application requires testing that is traceable to a national standard, we can provide a turnkey solution with NIST compliance.

At General, we haven’t forgotten that we’re in business to satisfy your demand for new productivity tools and instruments. So it is with great pride that I announce our first full line of electrical instruments for the industry professional. On pages 124 to 143 of this catalog you’ll find the features and specifications of many new clamp meters, multimeters, electrical testers and multi-component kits targeted to contractors and MRO professionals. We’ve even provided comparison charts for the clamp meters and multimeters to help you choose. With rugged mechanical designs, state-of-the-art electronics, improved CAT ratings and unique features, these can be considered “best of breed” electrical instruments that offer the best value in the market.

“Best of breed” is a term that applies equally well to our high-performance and Seeker families of video inspection borescopes. In 2013, General added VGA resolution probes with anti-glare and light boost to our high-performance line. Last year also saw the introduction of what has become the fastest-growing product in company history: the iBorescope. We think video inspection—using the iBorescope—may prove to be a “killer app” for those millions of iOS and Android smartphones and tablets now taking the world by storm. But our first-generation iBorescope only scratches the surface of tasks that compact, WiFi-enabled scopes can perform more quickly and conveniently. Keep an eye out for even more exciting video inspection products soon.

At General, we value your data as much as we value having your business. Whether your data is a series of home inspection images, a video clip of a commercial drain system, on-site thermal images of a power plant, a week’s worth of logged temperature/humidity points, or voice annotation of a water-damage restoration project, General Tools & Instruments gives you the wherewithal to make precision measurement and inspection your business as well.

Joe Ennis, President and CEO
NEW PRODUCTS
Specialty Tools

880 E•Z Pro™
Crown King
Crown Molding Jig
See pages
T-6 – T-8

75108
8-in-1 Lighted
Precision
Screwdriver
See pages T-74 & T-75

70390 - 24"
& 70391 - 36"
Lighted Mechanical /
Magnetic Pick-Up
See page T-91

502
Lighted Cordless Power
Precision Screwdriver
See pages T-73 & T-75
Now you can make it yours!

Cutting crown molding has never been so easy. The E•Z Pro™ Crown King allows you to cut precise joining angles without tedious trial and error process, right out of the box. With just one base unit, an insert, and your miter saw, you can create interior and exterior joints for the three most common crown molding spring angles: 38°, 45°, and 52°. It doesn’t matter if you’re a professional or a DIYer, you should check out this new addition to General’s E•Z Pro™ line. Whether it’s for ceiling and wall corners, decorative elements for cabinetry and furniture, or enhancements for doors and windows, General’s Crown King produces crown molding joints that are affordable, yet fit for a castle!
Meet the Joint Chiefs

The E•Z Pro™ Mortise & Tenon Jig
lets you make perfectly matched mortise & tenon joints with one jig.
#870

The E•Z Pro™ Dovetail Jig
lets you make dovetail and box joints – through or half-blind.
#861

The E•Z Pro™ Pocket Hole Jig
has everything you need to make flush, corner and angle pocket hole joints.
#850

The E•Z Pro™ Doweling Jig
lets you make perfectly aligned dowel joints every time.
#851
Professionally Cut Crown Molding Joints... Easily and Precisely. Cut perfectly mitered interior and exterior corner joints – Right Out of the Box!

45° Spring Angle Crown Molding Jig with Adapter for 52° and 38° Spring Angles

Features:
- Eliminates:
  - Difficult angle calculations
  - Coping of joints
  - Compound-angle cutting
  - Back-cuts
  - Auxiliary fences
  - Confusing upside-down
  - Miter box positioning

Create perfectly fitting interior crown molding joints
Create perfectly fitting exterior crown molding joints
General’s Wood Joining Program features all the necessary pieces for... Wood Joining! Included in this program are: fluted dowel pins, screw hole plugs, Shaker pegs, biscuits and pocket hole accessories. These wood items can be painted or stained and used in the creation of furniture, cabinets, trim, crafts and much more. Also, included in this program are wood joining jigs, screws and drills.
With the E•Z Pro™ Dovetailer II and your router, you can cut Professional Dovetail Joints, Simply and Accurately …
Right Out Of The Box!

- Self-aligning design ensures that both ends of the dovetail joint match-up evenly every time
- Sturdy machined one piece aluminum construction
- Easily adjusts the dovetail interference to create loose or tight joints
- Portable to your worksite or home workshop
- Use with hand or table router
- New table router control knobs assure safe, comfortable and accurate use
- No need to bolt the jig onto workbench like many expensive dovetail jigs
- Integrated clamps allow precise clamping of jig to work piece
- Accommodates boards of any widths
- Length: 12”; Width: 3”; Height: 3”; Weight: 2-lbs. 1.1oz.

Includes: 1/2” Dovetail Router bit, User’s Manual

UPC: 021243861

Cuts Half-Blind Joints

Cuts Through Joints

No. 861
Patent No. 7828024

Woodworking Made Easy!
The Mortise & Tenon joint has been used for thousands of years. Not until now has someone figured out how to provide a fast and straightforward all-in-one solution for cutting both a matching mortise & tenon with a single affordable jig. General’s E•Z Pro™ Mortise & Tenon Jig is ready to use right out-of-the-box to produce the widely used 1/4” mortise and tenon joint. Using a plunge router with the jig, woodworkers of all levels can quickly and easily cut both mortises and tenons ranging from 1/4” to 1/2” thick, and from 1” to 3” wide. Without difficulty, this unit can easily handle wood stock ranging from 1/2” to 1-1/2” thick and can cut multiple mortises in a single long piece.

No. 870  
Patent #6,016,005

WOODWORKING Made Easy!

“Precision, Specialty and Innovation . . . Since 1922”  

T-11
E·Z Pro Deluxe Pocket Hole Jig Kit

Award Winning Ingenuity!

850 KIT INCLUDES:
• 1 Pocket Hole Jig with Clamps; 3/8" Step Drill Bit; 1-3/8" Drill Stop and Hex Wrench; 6" Steel Square Drive Bit; 25 Course Square Drive Screws; 25 Fine Square Drive Screws; 25 Wooden Pocket Hole Plugs, Instructions and Hard, Molded Carrying Case

849 KIT INCLUDES:
• 1 Pocket Hole Jig with Clamps; 3/8" Step Drill Bit; 1 3/8" Drill Stop and Hex Wrench; 6" Steel Square Drive Bit; Square Drive Screws, Instructions

SMART DESIGN
• Heavy-duty aluminum extrusion & hardened steel drill bushings
• Built to be portable or bench mounted, and designed with a built-in clamping system

THREE TYPES OF POCKET HOLE JOINTS
• Flush, Corner & Angle

Patent No. 6,254,320

NEW COLOR SHOWN

Photos property of Woodworker's Journal
Pocket hole joints are sturdy and simple to make with a drilling jig. By drilling steeply pitched counterbores in one joint member, you can drive self-tapping screws into the other without pilot holes. Ideal for leg and rail connections and face frame cabinet construction.

**E-Z Pro Pocket Hole Jig Kits**

- Ideal for leg-and-rail connections, cabinet construction, sneaking screws into tight squeeze spots or fastening picture frame miters
- Heavy-duty aluminum extrusion and hardened steel bushings
- By drilling steeply pitched counterbores in one joint member, you can drive self-tapping screws into the other joint member without pilot holes
- Built to be portable or bench mounted

**850 Kit includes**: 1 Pocket Hole Jig with Clamp; 3/8” Step Drill Bit; 1-3/8” Drill Stop and Hex Wrench; 6” Steel Square Drive Bit; 25 Course Square Drive Screws; 25 Fine Square Drive Screws; 25 Wooden Pocket Hole Plugs; Instructions and Hard, Molded Carrying Case

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<td>849</td>
<td>E-Z Pro Pocket Hole Jig Kit</td>
</tr>
<tr>
<td>00850 0</td>
<td>850</td>
<td>E-Z Pro Deluxe Pocket Hole Jig Kit</td>
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**POCKET HOLE JIG ACCESSORIES**

**E-Z" Step Drill Bit**

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<tr>
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**Square Drive Bits**

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<tr>
<td></td>
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<td>3” and 6” long</td>
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**Pocket Hole Plugs**

<table>
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**Pocket Hole Screws**

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<td>8497</td>
<td>Coarse</td>
<td>100</td>
</tr>
<tr>
<td>08498</td>
<td>8498</td>
<td>Fine</td>
<td>100</td>
</tr>
</tbody>
</table>

**849 Kit includes**: 1 Pocket Hole Jig with Clamp; 3/8” Step Drill Bit; 1-3/8” Drill Stop and Hex Wrench; 6” Steel Square Drive Bit; Square Drive Screws; Instructions
Pocket-hole joinery or pocket-screw joinery is one of the best methods for joining two pieces of wood to ever come down the pike. Fixing a squeaky chair, or a wiggly table, is as easy as adding a few pocket holes and screws to pull the separating pieces together. General’s Pocket Hole Screws No. 8497 and 8498 are used specifically for this purpose and are offered in both fine and coarse thread.

**Pocket Hole Screws**
- Self-tapping
- Use a coarse thread screw in soft material (8497)
- Use a fine thread screw in hardwoods (8498)
- Nickel-plated
- Phillips square drive pan head
- Size: 1-1/4"

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<tr>
<td>08498</td>
<td>9</td>
<td>Fine Screws</td>
<td>100</td>
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**Pocket Hole Plugs**
Pocket Holes are often hidden from sight on the back surface of a face frame, under a table top, or on the back of picture frame. What do you do about unattractive pocket holes that will be visible on a finished product? The answer. Pocket hole plugs! These wood plugs, made from 100% hardwood, can make the pocket holes beautifully disappear.

<table>
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</table>

**E-Z Pro Step Drill Bit**
The E-Z Step Drill Bit is great for creating pocket hole joints or counter boring. The 3/8” bit is made of high speed steel and includes a drill stop and hex wrench for accurate setting of drill depth. This item can also be used as a replacement bit for General’s Pocket Hole Jig Kit (#849), and Deluxe Pocket Hole Jig Kit (#850).
- Replacement bit for General’s E-Z Pocket Hole Jig Kit (No. 849)
- 3/8” x 6” (9.5 x 152mm) step drill bit
- High speed steel
- Ideal for creating pocket hole joints and counter-boring
- Includes 3/8” (9.5mm) steel drill stop with hex wrench

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General’s Drill Accessories are engineered to do precision work in the many specialized drilling and cutting operations required for fine carpentry and metal working. They expand the capabilities of portable electric drills, drill presses, drill stands, bit braces and hand drills. Our Drill Accessories are built for precision and durability.

**SQUARE DRIVE BITS**

For use with General’s Pocket Hole Screws. These drive bits are essential for building decks, benches, tables and other woodworking projects. General’s Square Drive Bits have a hardened steel tip that assures perfect fit and lasts longer.

- #2 Square drive bits
- 3" (76mm) length
- 6" (152mm) length
- Use with deck screws

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<tr>
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<tr>
<td></td>
<td></td>
<td>3&quot; and 6&quot; long</td>
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</table>

**PLUG CUTTERS**

Whether you’re building cabinets, toys, decks, furniture or railings, wooden plugs are a neat way to cover up the screw heads. Made from hardened alloy steel, General’s Plug Cutters will cut a 3/8-inch plug from any wood stock and eject it, whether it’s chucked in a press or hand-held drill. This is a great economical bit, perfect for homeowners.

- General’s Plug Cutters produce accurate plugs for covering screw holes in decking, flooring and other woodworking projects
- Permits choice of matching or contrasting plugs for decorative effect
- Engineered to start cutting plugs easily with hand-held drills or drill press

- Cutter will produce and eject straight plugs from stock up to 3/4" thickness
- Made of hardened alloy steel
- Individual sizes:

<table>
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<th>NO.</th>
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<th>DIA.</th>
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<td>31B</td>
<td>3/8&quot; 1/2&quot; dia.</td>
<td></td>
</tr>
<tr>
<td>230331</td>
<td>31C</td>
<td>3/8&quot; 5/8&quot; dia.</td>
<td></td>
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</table>

- Set of 3 Diameters - 1/4", 3/8", 1/2":

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<th>SHANK</th>
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</thead>
<tbody>
<tr>
<td>230362</td>
<td>531</td>
<td>3/8&quot;</td>
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</table>

**ADJUSTABLE PILOT BITS**

Drill, countersink and counter-bore precision screw holes in a single operation with General’s Adjustable Pilot Bit Set. Featuring four high-speed bits with adjustable lengths, this set can be a great time saver for fine carpentry and woodworking. The 1/4" hex shank allows the set to be used in both electric drills and power screwdrivers.

- Drill, countersink and counterbore precision screw holes in a single operation when doing fine carpentry and woodworking
- Hardened high-speed pilot bits give long life
- Black oxide finish deters rust
- 1/4" hex shanks prevents slippage in electric drills and can be used in power screwdrivers
- Adjustable drill and high performance angle on countersink

<table>
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<td>10 – 11 (1/8&quot;)</td>
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<td>12 – 14 (9/64&quot;)</td>
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</table>

“Precision, Specialty and Innovation . . . Since 1922”
**Builder’s Tools/Woodworking**

**Doweling Kits and Accessories**

Our E•Z Pro Doweling Kit includes everything you need to make beautiful wood joints like a pro! This heavy-duty aluminum jig simplifies the doweling process, allowing you to create Edge-to-Edge, Right Angle and Edge-to-Surface joints with little effort. No. 8401 Dowel Accessory Kit can be used with both the No. 840 and No. 841 Doweling Jigs.

---

**E•Z Pro Doweling Jig Kit**

- Dowels add mechanical strength to butt joints and keep miters lined up during clamping.
- The pointed notches on the working edges of our jig centers the drill bit automatically for precise registration.
- Create 3 types of dowel joints: Edge to edge, right angle, edge to surface, as well as 3 sizes of dowel joints: 1/4", 5/16" and 3/8".

**Deluxe Doweling Jig Kit**

This new addition to General’s E•Z Pro Line of Precision Wood Joining Jigs, the Deluxe Doweling Jig Kit allows users to produce three types of strong, precision dowel joints in three sizes (1/4 in., 5/16 in. and 3/8 in.) with little effort. Whether creating edge-to-edge, right angle corner or right angle edge-to-surface dowel joints, the heavy duty aluminum jig effectively simplifies the process and is anodized in a gold color to impede corrosion. The pointed notches on the working edges of the jig center the drill bit automatically for precise registration. The included wood dowels add mechanical strength to butt joints and keep miters lined up during clamping.

**Dowel Accessory Kits**

- Replacement bit for General’s E•Z Pocket Hole Jig Kit (No. 849)
- Accessories Kit for General’s Pro Doweling Kit (No. 840) and E•Z Dowel Kit (No. 841)
- 841014 Kit includes: 12-1/4" Dowel Pins, 1-1/4" Brad Point Drill Bit, 1-1/4" Drill Stop Collar, 2-1/4" Dowel Centers, 1 Hex Key
- 841516 Kit includes: 12-5/16" Dowel Pins, 1-5/16" Brad Point Drill Bit, 1-5/16" Drill Stop Collar, 2-5/16" Dowel Centers, 1 Hex Key
- 841038 Kit includes: 10-3/8" dowel Pins, 1-3/8" Brad Point Drill Bit, 1-3/8" Drill Stop Collar, 2-3/8" Dowel Centers, 1 Hex Key
Pro-Dowling Kit

General's Pro Doweling Jig is a precision jig that assures the accurate line-up of dowel holes in furniture and carpentry. Simply clamp the jig onto your workpiece to quickly and accurately drill holes for dowel pins requiring exact alignment in the edge, end or surface of your work.

For clean joints that need to be strong and fastener-free, there's almost no substitute for the dowel joint. However, if dowel holes are even slightly askew, the dowels won't mesh, rendering the joint unusable. General's E•Z Pro Doweling Jig offers a simple, versatile way to produce precision edge-to-edge, right angle, or edge-to-surface joints. The Kit features three size dowels (1/4", 5/16" and 3/8"), and the jig has three different drilling positions designed for stock of 5/8", 3/4" and 1" thick. Steel stops allow you to vary the depth of the cut. Perfect for joints that will be press fit or glued.

**PRO-DOWELING KIT**

- A precision jig that assures accurate line up of dowel holes in furniture and carpentry
- Revolving hardened sintered turret has six twist drill sizes
- Instructions included
- Drill sizes: 3/16", 1/4", 5/16", 3/8", 7/16", 1/2"

**Package Contents:**
- 1 Doweling Jig;
- 3 Brad Point Drill Bits, 1/4", 5/16", 3/8";
- Dowel and Tenon Centers Set from 3/16" ID to 1/2" OD;
- 3 Drill Stops, 1/4", 5/16", 3/8";
- 30 Dowel Pins, 10 each 1/4", 5/16", 3/8"

**UPC NO.** 24120 840
WOODWORKING

Wood Pins & Plugs

As an FSC (Forest Stewardship Council), certified company, General’s Wood Joining Program includes wood based products that are manufactured in accordance with FSC standards. The FSC is an independent, non-governmental, not-for-profit organization established to promote the responsible management of the world's forests and is nationally represented in more than 50 countries around the world.

FLUTED DOWEL PINS

A fluted dowel pin has a series of parallel grooves cut along its length providing channels through which excess glue—that is used to secure the dowel pin in its hole—can escape as the dowel is inserted. This relieves the hydraulic pressure that might otherwise split timber when mating pieces are clamped together. General’s fluted dowels are ideal for creating strong and secure joins in furniture, cabinets, trim and special woodworking projects.

- Made of straight-grained solid hardwood
- Expands when used with water-based glue for extra tight join
- Fluted for easy insertion

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<td>72</td>
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<td>1</td>
<td>840516 5/16&quot; Fluted Dowel Pins</td>
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<td>02103</td>
<td>8</td>
<td>840038 3/8&quot; Fluted Dowel Pins</td>
<td>35</td>
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<tr>
<td>02104</td>
<td>5</td>
<td>840012 1/2&quot; Fluted Dowel Pins</td>
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FLAT HEAD PLUGS

- Premium Flat Head Screw hole Plugs have a tapered tenon to insure a tight fit
- Designed to form a flush finish in furniture and other woodworking applications
- Paint or stain for a perfect wood-color match or for accentuated contrast

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<td>313012 1/2&quot; Flat Head Plugs, Oak</td>
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<td>1</td>
<td>315012 1/2&quot; Flat Head Plugs, Hardwood</td>
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BUTTON HEAD PLUGS

Button Head plugs are ideal for filling in those unsightly screw holes and can be installed easily with wood glue. Button Head plugs can be used for a variety of craft, woodworking and furniture projects.

- When fully-seated, the domed, button head protrudes above the wood surface and over the screw hole edge adding a more decorative look
- Slightly tapered plug body ensures a tight secure fit

- Wood grain runs in the direction of the plug width for best match
- Paint or stain for a perfect wood-color match or for accentuated contrast

<table>
<thead>
<tr>
<th>UPC</th>
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<th>QTY.</th>
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<tbody>
<tr>
<td>02105</td>
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<td>311038 3/8&quot; Button Plugs, Oak</td>
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<tr>
<td>02106</td>
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<td>312038 3/8&quot; Button Plugs, Hardwood</td>
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<tr>
<td>02108</td>
<td>3</td>
<td>312012 1/2&quot; Button Plugs, Hardwood</td>
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</table>
The important characteristics of wood joints are strength, flexibility, toughness and appearance. Both exterior and interior temperature changes can cause major shifts in the moisture content of wood and can compromise the strength and longevity of a joint. General’s wood based joining products have been developed to provide strong joints that adjust to every day environmental changes.

ROUND HEAD PLUGS
- Premium Round Head Screw hole Plugs with tapered tenon to insure tight fit
- Designed to form a slightly raised round finish in woodworking applications
- Paint or stain for a perfect wood-color match or for accentuated contrast

<table>
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<tbody>
<tr>
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<tr>
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<td>02117</td>
<td>316012</td>
<td>1/2” Round Head Plugs, Hardwood</td>
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SHAKER PEGS
Made from solid hardwood, General’s Classic Shaker pegs can be useful throughout the entire house. Install them in the foyer or mud-room, kitchen, bathroom, child’s room etc. Hang your favorite coffee mugs, towels, hats, neck ties, toys and even herbs!

- Create customized pegboards to better organize your work and living spaces
- Use General’s Shaker pegs to replace damaged pegs in your pegboards
- Paint or stain for a perfect wood-color match or for accentuated contrast

<table>
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<tr>
<td>02118</td>
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BISCUITS
Wood Biscuits, sometimes referred to as Wood Plates or Wafers, are used for edge or corner-jointing. When General’s biscuits come into contact with water based glue they swell, thus creating a locked joint for a strong secure fit.

- Used for Wood Joinery with Biscuit Joiners
- Great for furniture, cabinets and trim
- Biscuits soak up water-based glue for a tighter wood joint

<table>
<thead>
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<th>DESCRIPTION</th>
<th>QTY</th>
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<td>318010</td>
<td>Size #10</td>
<td>50</td>
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<td>02136</td>
<td>318020</td>
<td>Size #20</td>
<td>50</td>
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<tr>
<td>02133</td>
<td>318050</td>
<td>Size FF</td>
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</tr>
</tbody>
</table>
General’s E•Z Pro™ Jointer Clamp Kit is the alternative to expensive jointers. Now, you can straight-line rip crooked boards using your table saw! Just attach your crooked board to a piece of straight stock using the Jointer Clamps and run the stock along the rip fence to rip the crooked board. Works in two easy passes. Great for use with long stock. Patented swing arm design allows you to accurately rip wide boards with ease.

**Dowel Centers**
- General’s dowel centers are the quickest and most accurate method to locate, transfer and match dowel holes
- Made of nickel plated steel

**Set includes:** 8 pcs., two of each size:
- 1/4", 5/16", 3/8", 1/2" diameter

<table>
<thead>
<tr>
<th>UPC NO.</th>
<th>SIZES INCLUDED</th>
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</thead>
<tbody>
<tr>
<td>25099 5</td>
<td>888 Dowel centers</td>
</tr>
</tbody>
</table>

**Drill Stop Set**
- For use on twist or brad point drills to prevent excessive drill penetration
- Positive depth control assures exact hole depths for multiple drilling jobs
- Black oxide finish on cold rolled steel

**Includes hex wrench**

<table>
<thead>
<tr>
<th>UPC NO.</th>
<th>SIZES INCLUDED</th>
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<tbody>
<tr>
<td>23096 6</td>
<td>S838 3/16&quot; dia., 1/4&quot; dia., 5/16&quot; dia., 3/8&quot; dia., 7/16&quot; dia., 1/2&quot; dia.</td>
</tr>
</tbody>
</table>

**E•Z Pro™ Tru-Edger Jointer Clamp**
- The long awaited alternative to expensive jointers!
- Straight line rip crooked boards on your table saw
- Just mount the clamps to a guide board to create a flat reference edge
- The guide board can be made from any straight edged scrap
- Clamp the stock to the guide board and make your rip cut
- Get a dead-flat edge every time, with no extra waste
- The jointer clamps work on any length stock up to 2" thick
- Instructions included

<table>
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<th>CAPACITY</th>
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<tr>
<td>70820000010</td>
<td>846 2&quot; stock</td>
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</table>

**New Swing Arm**

**New Color Shown**

**Photos property of Woodworker’s Journal**

**Patent No. 7,000,519**
General has a full range of specialized digital tools designed for measurement operations necessary in construction jobs, cabinet making and fine carpentry. Woodworkers trust the quality, accuracy and value that General Tools gives them.

**DIGITAL SLIDING T-BEVEL**
- 2 Tools in 1 - Digital Sliding T-Bevel and Protractor
- Large digital angle readout
- Holds measurement for transfers
- Reverse Display button, Flip Display button, Locking Knob for manual measurement transfer
- 4 function control buttons
- Auto Shut-off feature
- 8" Stainless Steel blade
- Impact resistant ABS handle
- Full LCD Display
- Measures and transfers angles
- Range: 0-360°
- Resolution: 0.05°
- Accuracy: ±0.3°
- Power Source: 1 "CR2032" 3V Lithium-ion battery (included)

**DIGITAL PRECISION PROTRACTOR**
The Digital Protractor displays absolute and relative angle measurements in a large, easy-to-read LCD window
- Installing crown molding, cabinetry, counters, staircases, roofs, windows or flooring
- Takes the guesswork out of measuring, marking, reading and transferring angles
- 6" (150mm) stainless steel protractor arm with knurled locking nut
- Large, easy-to-read display
- Absolute and relative measurements
- Accuracy: ±0.1°
- Resolution: 0.05°
- Range: 0 to 180°
- Display can be inverted for easy reading
- Measurement hold function
- Power Source: 1 "CR2032" 3V Lithium-ion battery (included)

**5" AND 10" DIGITAL ANGLE FINDER RULES**
- Digital stainless steel angle rules make precise measurements for easy woodworking
- Calculates interior (inside) and exterior (outside) angles easily and accurately in seconds
- Lock and reverse angle features for all types of work
- Large easy to read LCD display
- Hinge mechanism allows a full 360 degrees to measure inside/outside and reverse angles
- Can be zeroed at any point in the swing
- Leg Dimension of 822: 7" (L) x 1-3/8" (W): 6/8"
  Leg Dimension of 823: 10-7/8" (L) x 1-3/8" (W)
- Height of 822/823: 3/4"
- Accuracy: ±0.3°
- Resolution: 0.1°
- Range: 0 to 360°
- Power Source: 1 "CR2032" 3V Lithium-ion battery (included)
General’s Contour Gages can duplicate any shape. The pins on our gage slide to conform to irregular surfaces. This tool can be used for pattern and mold making, duplicating parts and contours.

Great for fitting carpet, floor tiles and linoleum against door casings and pipes. The ANGLE-IZER™ can replace the need for making templates and can be used again and again. The Ultimate Template Tool.

10" CONTOUR GAGE
- Extra length is ideal for woodworking, linoleum installation, ceramic tile installation or any job where contour duplication is essential
- Gage will fit profiles up to 10” long
- Inch/mm graduations on body
- 3” (76mm) deep fingers will measure profiles up to 1-1/4” (32mm)
- Made from tough, durable plastic

UPC NO. 08330 2

6" CONTOUR GAGE
- Ideal for woodworking, linoleum installation, or any job or hobby where contour duplication is essential
- Inch graduation on body
- Stainless steel pins
- Component parts are enamel painted and brass plated
- Size is 6” x 3-1/2” (152 x 89mm) with an overall travel of 5-1/4” (133mm)

UPC NO. 24116 0

THE ANGLE-IZER™
- The unique and versatile ANGLE-IZER™, the Ultimate Template Tool eliminates the need for making templates and can be used again and again
- The ANGLE-IZER™ can be set-up in seconds not only improving quality but saving time
- Just form the tool into the shape of your work area, then use it to mark your work-piece to be cut
- Repeat accurate marking for creating bulls eyes, arches, repetitive angles or shapes
- Tool can be set to mark bricks, tiles, lumber and laminates
- All the arms are dual-calibrated in inches and metric measures
- Unique tightening mechanism for one-handed operations
- Fiberglass filled nylon for added strength and flexibility
- Includes FREE instructional ANGLE-IZER™ CD program

UPC NO. 08360 9

Patent No. Des. 402,217

Test Equipment Depot - 800.517.8431 - 99 Washington Street Melrose, MA 02176
TestEquipmentDepot.com
General's Compasses and Layout Tools are designed for the specialized operations of measuring and layout necessary in construction jobs, cabinet-making and fine carpentry. Woodworkers trust the quality and the value that General Tools provides.

### OUTSIDE, INSIDE & SLOPED ANGLE PROTRACTOR
- Use this protractor/angle finder to measure and mark the degrees of an angle on outside, inside and sloped angles.
- Fine black graduations from 0° to 165° in opposite directions.
- Brass lock nut.

### PROFESSIONAL QUALITY T-BEVEL
- Our T-bevel is the tool preferred by the craftsperson who wants the finest quality tools.
- Solid mahogany 5-1/2" (140mm) handle with brass trim and locking wing nut.
- 10" (254mm) blade.
- Conforms to government specifications GGG-B-211b.

### PENCIL COMPASS AND SCRIBER
- Accepts and holds standard pens and pencils.
- Designed for marking contours and circles.
- Positive wing nut adjustment.
- Full-length hardened steel pin in metal frame for greater rigidity.
- Constructed of brass plated steel.

### PRECISION PENCIL COMPASS
- Carpenter quality compass is made of long lasting die-cast rust proof metal.
- Spring tension adjustment for marking up to 9" (229mm) diameters.
- Scribe guide for edge marking.
- For use with pencil (included) or slim ballpoint pen.

---

“Precision, Specialty and Innovation . . . Since 1922”
The AccuDrill Precision Drill Guide adds a whole new level of accuracy to your standard power drill. The AccuDrill is great for angle drilling, doweling, plug cutting and even edge sanding. With the easy-to-use protractor scale, you can adjust the Drill Guide in five degree increments from 0-45°, left and right. In addition, V-Guides on the base permit drilling through dowel or other rounded stock. Attaches to all 3/8" and 1/2" power drills. Folds for tool-box storage.

**PRECISION DRILL GUIDE**
- Attaches to all 3/8” and 1/2” power drills
- Cross slide lock for accurate shaping and carving
- 3/8” capacity drill chuck with key
- Positive stop for accurate drill depth control
- Dual locking knob and handle holds precise angle setting
- Folds flat for tool box storage
- Easy-to-read protractor scale has 5° graduations (0° - 45° left or right)
- V-guides automatically center round stock for drilling
- Self centering channel for edge drilling

**UPC NO.**
230591 36/37 AccuDrill Precision Drill Guide

**For round Bar Center Drilling**
**2 Straight Edge Center Drilling**
General's Circle Cutters produce precision circles in sheet metal, brass, copper, soft steel, aluminum, plastic, wood and composition materials. Bodies are constructed of heat treated tool steel for durability. The replaceable cutter blades are made of high-speed steel for precise and clean cuts. Circle Cutters are adjustable for cutting various diameter holes. A hex wrench is included for adjustments.

### 4" MAX CIRCLE CUTTER
- Round Shank circle cutter
- Replaceable high-speed steel cutting blade and replaceable 1/4" pilot drill
- All adjustments are made with a hex wrench which is included
- Maximum safe speed is 500 RPM
- For use with drill press only

<table>
<thead>
<tr>
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<tbody>
<tr>
<td>21003</td>
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<tr>
<td>27003</td>
<td>0</td>
<td>4/5 Blade</td>
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</tbody>
</table>

### WHEEL AND CIRCLE CUTTER
- General's Wheel and Circle Cutter is the only one that cuts the exact diameter you need anywhere from 1" to 6" (26 to 152mm)
- Ideal for woodworkers, model builders, clockmakers, and hobbyists
- Produces precision circles and holes in sheet metal, brass, copper, aluminum, plastic, wood, and composition materials
- Change from circle to wheel cutting by simply reversing the double ended blade
- Sturdy round shank for use in any drill press or drill stand with 3/8" chuck
- Replaceable double ended 9/32" cutter blade is made of high-speed steel for precise clean cuts
- All adjustments are made with a hex wrench which is included
- Maximum safe speed is 500 RPM
- For use with drill press only

<table>
<thead>
<tr>
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<tr>
<td>21014</td>
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<td>5/6/55 Drill</td>
</tr>
<tr>
<td>21013</td>
<td>5</td>
<td>6 Blade</td>
</tr>
</tbody>
</table>

### 6" MAX CIRCLE CUTTER
- Has been a General Tools customer favorite for more than 30 years
- Adjusts from 1" to 6" (26 to 152mm) diameter circles
- Replaceable high-speed steel blade and replaceable 1/4" pilot drill
- All adjustments are made with a hex wrench which is included
- Maximum safe speed is 500 RPM
- For use with drill press only

<table>
<thead>
<tr>
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<tbody>
<tr>
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</tr>
<tr>
<td>27003</td>
<td>0</td>
<td>4/5 Blade</td>
</tr>
</tbody>
</table>

### HEAVY-DUTY CIRCLE CUTTER
- General's industrial quality cutter is most preferred by professionals
- 1/2" round shank for drill press use
- Replaceable high-speed tool steel blade and replaceable 1/4" pilot drill
- Markings on beam for easy measurement
- All adjustments are made with a hex wrench which is included
- Maximum safe speed is 500 RPM
- For use with drill press only

<table>
<thead>
<tr>
<th>UPC</th>
<th>NO.</th>
<th>DESCRIPTION</th>
</tr>
</thead>
<tbody>
<tr>
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<tr>
<td>27015</td>
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<td>55 Blade</td>
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### WASHER AND GASKET CUTTER
- This tool cuts washers and gaskets in leather, rubber, cork, graphite, fiber, copper and other soft materials
- Combination round and square shank permits use with bit brace or hand drill
- Made of steel with graduated beam to adjust to diameters from 5/8" to 6-1/2" (16 to 165mm)
- Replaceable tool steel Cutter Blades No. 11B
- Two independently adjustable cutter blades cut inside and outside diameters simultaneously
- Maximum safe speed is 100 RPM
- For hand held variable speed drills only

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"Precision, Specialty and Innovation . . . Since 1922"
General's newest "Fraction +" Caliper has a three mode digital display. Measuring in inches, metric and fractions it offers everything for the hobbyist to the professional.

The Combination Squares are specifically designed for carpenters, the woodworking trade, the do-it-yourselfer and home mechanics. A necessary tool for every carpenter and home workshop.

**FRACTION+**

**DIGITAL FRACTIONAL CALIPERS**
- No. 147, No. 1478, No. 14712 are heavy-duty stainless steel construction
- No. 146, No. 1433 are constructed of non-marring carbon fiber
- Convenient auto-off feature
- Three mode digital display: Decimal Inches, Fractional and Metric
- Inside, outside, depth & step measurements
- Accuracy: +/- 0.001" +/- 0.02mm
- Resolution: 0.0005", 0.01mm, 1/64"
- Power Source: 1 "SR44" battery (included)

<table>
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<td>01433</td>
<td>1433</td>
<td>0 - 3&quot; (0 - 76mm)</td>
</tr>
<tr>
<td>01460</td>
<td>146</td>
<td>0 - 6&quot; (0 - 153mm)</td>
</tr>
<tr>
<td>01470</td>
<td>147</td>
<td>0 - 6&quot; (0 - 153mm)</td>
</tr>
<tr>
<td>01478</td>
<td>1478</td>
<td>0 - 8&quot; (0 - 203mm)</td>
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<tr>
<td>14712</td>
<td>14712</td>
<td>0 - 12&quot; (0 - 305mm)</td>
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**SINGLE BAR MARKING GAGE**
- 6" (153mm) adjustable bar is nickel plated steel graduated in 16ths
- Die-cast head
- Fine needle point for precision marking

<table>
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</thead>
<tbody>
<tr>
<td>24050</td>
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<td>820</td>
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</table>

**PROFESSIONAL CARPENTER’S COMBINATION SQUARE**
- Specially designed for carpenters and the woodworking trades
- Machined and enameled cast iron head has precision level and scribe for producing right and 45° angles
- 12" x 1" (305 x 26mm) steel blade is graduated in 8ths, 16ths, and 32nds
- Conforms to government specifications GGG-S-656C

<table>
<thead>
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<th>UPC</th>
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<td>812</td>
<td>8ths, 16ths, 16ths, 32nds</td>
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<tr>
<td>22193</td>
<td>3</td>
<td>812-CA</td>
<td>Clamp Assembly</td>
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</table>

**UTILITY COMBINATION SQUARE**
- Economy version of the carpenter’s combination square is perfect for the do-it-yourselfer and home mechanic
- 12" x 1" (305 x 26mm) steel blade is graduated in 8ths, 16ths, and 32nds
- Heavy zinc cast head with level and scribe

<table>
<thead>
<tr>
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<tbody>
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<td>811</td>
<td>8ths, 16ths, 16ths, 32nds</td>
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</table>
General's Adjustable Trammels accurately measure and mark distances that are too great for conventional compasses and dividers. Trammels will accurately transfer measurements, scribe arcs and lay out circles. Points can be replaced with pencils, ballpoint pens, crayons or soap-stone sticks for marking various materials.

**PRECISION ADJUSTABLE TRAMMELS**
- Draw large circles and measure sizable distances with the accuracy of a divider
- Fine adjusting screw sets points accurately
- Points are removable and may be replaced with the pencil holder
- Die-cast bodies with hardened and ground 3" (76mm) needlepoint legs
- Clamp opening for beam is 3/8" x 3/4" (10 x 19mm)
- Conform to government specifications GGG-T-661b

<table>
<thead>
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<td>520</td>
<td>Replacement points (12 per pkg.)</td>
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<tr>
<td>31104 7</td>
<td>84P</td>
<td></td>
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**ADJUSTABLE TRAMMELS**
- General's adjustable trammels accurately measure and mark distances that are too great for conventional compasses and dividers
- For layouts, marking templates, and drawing large circles
- 6" (153mm) eccentric points provide fine adjustments
- Points can be replaced with pencils, ballpoints pens, crayons, or soapstone sticks for marking various materials
- Clamps onto beam 5/8" to 1-1/2" (16 to 38mm) thick of any length

<table>
<thead>
<tr>
<th>UPC</th>
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</thead>
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<td>523</td>
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</tbody>
</table>

**PRECISION TRAMMEL SET**
- Will accurately transfer measurements, scribe arcs, and lay out circles too large for conventional compasses
- Will fit any scale, 1/2" to 1-1/8" (13 to 29mm) wide
- Two scriber points and two pencil points included
- Up to four points can be stored in body
- Free-wheeling thimble for greater precision
- Aluminum knurled body
- Steel collet holds replacement leads, scribes and crayons
- Points reverse into body for safety
- Ruler not included in set

<table>
<thead>
<tr>
<th>UPC</th>
<th>NO.</th>
<th>Description</th>
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</thead>
<tbody>
<tr>
<td>23095 9</td>
<td>524</td>
<td></td>
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</table>
**Countersinks, Drill Bits, Gages**

Pilot Bits, countersink and counterbore precision screw holes in a single operation. Self-Centering Hinge Bits drill highly accurate pilot holes in cabinet and door hinges.

Stair gages assure fast and uniform layout in repetitive work including angle cuts on rafters and stair stringers.

### 5 flute rose pattern countersinks

- The rose pattern cutting flutes assure chatter free countersinking on steel, brass, aluminum, plastic, wood & other materials
- Made of high-speed steel with five flutes
- 82° point angle
- Stepped shank for use with 1/4” and 3/8” chucks

<table>
<thead>
<tr>
<th>NO.</th>
<th>A</th>
<th>B</th>
<th>C</th>
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<tbody>
<tr>
<td>195-1/2</td>
<td>1/2“</td>
<td>3/8“</td>
<td>1/4“</td>
</tr>
</tbody>
</table>

### Self-centering hinge bits

- Highly accurate bits are used for drilling pilot holes in cabinet and door hinges, door butts and all large and small hardware
- Spring loaded outer guide keeps the high speed drill centered for perfect pilot holes
- Adjustable drill depth

<table>
<thead>
<tr>
<th>UPC</th>
<th>NO.</th>
<th>DRILL SIZE</th>
<th>DRILL DEPTH</th>
<th>SCREW SIZE</th>
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<tbody>
<tr>
<td>22154 4</td>
<td>291</td>
<td>5/64“</td>
<td>1/8“</td>
<td>3 &amp; 4 screw size</td>
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<tr>
<td>22149 0</td>
<td>292</td>
<td>7/64“</td>
<td>7/32“</td>
<td>5 &amp; 6 screw size</td>
</tr>
<tr>
<td>22150 6</td>
<td>293</td>
<td>9/64“</td>
<td>5/16“</td>
<td>8 &amp; 10 screw size</td>
</tr>
</tbody>
</table>

### Jiffy centering punch

- For quickly starting screw holes when attaching countersunk hardware such as hinges, hasps, hangers and drawer pulls
- Countersunk end ensures starting hole is centered in hardware screw hole
- Hardened steel pin

- Length: 2-1/2” (68mm)
- Body diameter: 3/8” (10mm)

<table>
<thead>
<tr>
<th>UPC</th>
<th>NO.</th>
</tr>
</thead>
<tbody>
<tr>
<td>24018 7</td>
<td>806</td>
</tr>
</tbody>
</table>

### Stair gage set

- Brass plated steel stair gage assures fast and uniform layout in repetitive work including angle cuts on rafters and stair stringers
- Attaches easily to all metal rafter squares
- Set of 2 pieces

<table>
<thead>
<tr>
<th>UPC</th>
<th>NO.</th>
</tr>
</thead>
<tbody>
<tr>
<td>24009 5</td>
<td>803</td>
</tr>
</tbody>
</table>
General's Scratch Awl is made from the finest materials for long life. This tool is designed for scribing and layout work, starting screw holes and piercing soft materials.

The Chisel/Plane Blade Sharpener keeps blades razor sharp. The graduated settings maintain the correct 30° cutting angle necessary for these blades.

**HARDWOOD HANDLE SCRATCH AWL**
- Alloy steel blade runs through the handle and is securely fastened to both the plated steel ferrule and the cap
- Hardwood fluted handle is contoured for comfortable grip

<table>
<thead>
<tr>
<th>UPC</th>
<th>NO.</th>
<th>A</th>
<th>B</th>
</tr>
</thead>
<tbody>
<tr>
<td>24070</td>
<td>818</td>
<td>6-1/2&quot; (165mm)</td>
<td>3-3/4&quot; (95mm)</td>
</tr>
</tbody>
</table>

**“ORIGINAL” DRILL GRINDING ATTACHMENT**
- Engineered to permit sharpening of drill bits to factory accuracy
- Extends the life of drill bits
- Angle adjustments lock in to grind drill bits for more accurate drilling in a variety of materials
- Automatically adjusts to give correct clearance angle
- For use with ANSI, OSHA, and UL approved standard electric bench grinders or surface grinders
- Equally at home in machine shop and home workshop
- Instructions included

<table>
<thead>
<tr>
<th>UPC</th>
<th>NO.</th>
<th>CAPACITY</th>
</tr>
</thead>
<tbody>
<tr>
<td>24070</td>
<td>825</td>
<td>Fractional drills 1/8&quot; to 3/4&quot;, Number size drills 30 to 1</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Letter size drills A to Z, Millimeter size drills 3.0 to 19.0</td>
</tr>
</tbody>
</table>

**CHISEL/PLANE BLADE SHARPENER**
- Keeps chisel and plane blades razor sharp
- Graduated settings maintain correct 30° cutting angle on chisel or plane blade
- Spring clamp locks in blades up to 2-5/8" (67mm) wide
- Made of high impact fiberglass reinforced Lexan®
- Folds for storage

<table>
<thead>
<tr>
<th>UPC</th>
<th>NO.</th>
</tr>
</thead>
<tbody>
<tr>
<td>24024</td>
<td>809</td>
</tr>
</tbody>
</table>

**FIBERGLASS FOLDING RULE**
- Constructed of tough, flexible high-impact plastic, with fiberglass reinforcement for added durability
- 72" (1929mm) folding ruler with a 6" (152mm) extension for accurate inside measurements

<table>
<thead>
<tr>
<th>UPC</th>
<th>NO.</th>
<th>GRADS</th>
</tr>
</thead>
<tbody>
<tr>
<td>25300</td>
<td>7200</td>
<td>16ths</td>
</tr>
</tbody>
</table>

Outside readings graduated in 16ths.
Whether you’re a professional contractor or a conscientious homeowner, General’s ultra-sensitive hand-held pin or pinless Moisture Meters help you to easily detect hidden leaks in wood, concrete, plaster and carpet. Available as both analog and digital models, the Meters provide accurate moisture level readings and are great for new home inspections, locating roof leaks or even selecting dry lumber at the yard.

**PIN-TYPE LED BAR GRAPH MOISTURE METER**
Ideal for use in woodworking, building construction and home inspection. Examples include:
- Checking for moisture in carpets and sub-flooring
- Checking wood, drywall and concrete before painting/wallpapering, sealing or treating
- Locating water leaks in roofs, floors and walls
- Selecting dry lumber

**FEATURES**
- 10-LED display
- Two measurement ranges: 7 to 15% and 16 to 35%
- Protective cap doubles as calibration checker
- Full and low battery indications
- CE and RoHS approved

**SPECIFICATIONS**
- Low Measurement Range: 7 to 15% WME (Wood Moisture Equivalent)
- High Measurement Range: 16 to 35% WME
- Measurement Accuracy: ±1 LED (~1%)
- Calibration Check Point: 21% ±2%
- Low Battery Level: <7.5V
- Current Consumption: <15mA
- Operating Temperature: 32° to 140°F (0° to 60°C)
- Dimensions: 6.5 x 2.7 x 1 in. (164 x 69 x 26mm)
- Weight: 3.2 oz. (91g) w/out battery
- Power Source: 1 “9V” battery (included)

**Includes:**
- Protective Cap
- Battery
- User’s Manual

**PIN-TYPE LCD MOISTURE METER**
Ideal for use in woodworking, building construction, home inspection, lumber selection, water-damage restoration.

**FEATURES**
- 99.9 count LCD w/0.4 in. high digits
- Wood/building materials selection switch
- Low, Medium and High moisture sounds and on-screen icons
- High accuracy and resolution
- Data hold + auto power off + low battery indicator
- Replaceable stainless steel pins (#PIND4E)
- Powered by “9V” battery (included)

**SPECIFICATIONS**
- Overall Moisture Measurement Range: 5 to 50% for wood, 1.5 to 33% for building materials
- Wood Moisture Scales: 5 to 11.9% (low); 12 to 15.9% (medium); 16 to 50% (high)
- Measurement Accuracy: ±3% of reading
- Measurement Resolution: 0.1%
- Measuring Depth: 3/4 in. (20mm)
- Display Type/Size: 99.9 count LCD with 0.4 in. (10mm) high digits
- Auto Power Off Trigger: 3 to 4 minutes with 0% reading
- Low/Very Low Battery Warning Triggers: <7.5V/<6.5V
- Power Source: 1 “9V” battery (included)

**Includes:**
- Protective Cap
- Battery
- User’s Manual

**PINLESS LCD MOISTURE METER**
Ideal for measuring moisture content of wood and other construction materials.

**FEATURES**
- Non-invasive measurement technique
- Jumbo display
- Wide measurement range
- Intuitive on-screen icons: Low/Medium/High moisture content; wood/concrete mode
- Hold function
- Audible peak reading alert
- Auto-calibrating
- Auto Power Off
- Low and very low battery warnings

**SPECIFICATIONS**
- Measurement Ranges: 0 to 99.9% WME (Wood Moisture Equivalent) for wood; 0 to 56.5% for building materials
- Measurement Accuracy/Resolution: ±3%/0.1%
- Measuring Depth: 3/4 in. (20mm)
- Display Type/Size: 99.9 count LCD with 0.4 in. (10mm) high digits
- Auto Power Off Trigger: 3 to 4 minutes with 0% reading
- Low/Very Low Battery Warning Triggers: <7.5V/<6.5V
- Operating Temperature: 32° to 122°F (0° to 50°C)
- Operating Relative Humidity: <80%
- Power Source: 1 “9V” battery (included)

**Includes:**
- Battery
- User’s Manual
Plumbing Tools

- Tubing Cutters
- Mini Tubing Cutters
- Cutting Tools
- Flaring Tools
- Bending Tools
- Reamers
- Deburring Tools
- Cleaning Brushes
- Wrenches
- Pliers
- Faucet Tools
All General Tools Professional Tubing Cutters, come standard with these customer proven features:

- **One** Bearing tool steel cutting wheel, machined to the perfect geometry and Through-Hardened, that fits all General cutters.
- **Wider** hardened and polished Flared Grooved Rollers for reliable, stable and true close end cutting on flared tubing. Our rollers are mounted on hardened solid pins for longer, friction free operation.
- **Powder Coated** baked on painted finish for durability, and great look.
- **All fasteners** are drilled and tapped for precision fit and strength, not riveted or pinned.

### The Gold Standard Professional Series

General’s Gold Standard Tubing Cutter Wheels are the new Quality Standard Replacement Cutters for all General Tubing Cutters! Now with our new slim-line design, only two cutter wheels are needed to cut copper, plastic, iron pipe and stainless steel.  • Our Gold Standard cutter wheels include these features:

- **Shape:** New, sleek, slim-line geometry provides for smooth, clean, effortless cutting on all Pipes and Tube Materials.
- **Strength:** Bearing Tool Steel for superior strength to withstand the greater cutting pressure.
- **Durability:** Hardened and tempered to maintain its sharp edge and reduce chipping or breaking.
- **Speed:** The combination of shape, strength and durability enable General’s New GOLD Standard to repeatedly provide quicker cutting without deforming the pipe OD and cuts with minimum ID burring.

<table>
<thead>
<tr>
<th>RW121</th>
<th>RW122</th>
</tr>
</thead>
<tbody>
<tr>
<td>UPC</td>
<td>NO.</td>
</tr>
<tr>
<td>12023</td>
<td>6</td>
</tr>
<tr>
<td>12027</td>
<td>4</td>
</tr>
</tbody>
</table>

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**Capacity**

**1/8" – 1-1/8"**

**Tubing Cutter**

- Newly redesigned contoured shape comfort grip design
- Bearing tool steel cutter wheel
- Wide hardened flared grooved rollers allow cuts close to a flared end to avoid tube replacement in existing installations
- Full sized fold out reamer with double cutting edges

**HEAVY-DUTY CUTTER**

- Cuts copper, aluminum, brass, thin wall tubing and stainless steel
- Large knob with a covered extra cutter wheel storage space
- Replaceable cutting wheels: RW121/2, RW122

<table>
<thead>
<tr>
<th>UPC</th>
<th>NO.</th>
<th>CAPACITY</th>
</tr>
</thead>
<tbody>
<tr>
<td>12003</td>
<td>8</td>
<td>1/8&quot; to 1-1/8&quot; (3mm - 30mm)</td>
</tr>
</tbody>
</table>

---

**Capacity**

**1/4" – 1-5/8"**

**Pipe and Tubing Cutter**

- General’s best quality tubing and pipe cutter is designed to meet the demanding needs of the professional
- Quick release button to speed use
- Capacity 1/4" – 2-5/8" (6 – 67mm)
- For cutting copper, aluminum, thin wall tubing, iron and PVC
- Heavy-duty construction for tube or pipe
- Four rollers to accommodate multiple pipe sizes and prevent spiraling

**Pipe and Tubing Cutter**

- Oversize knob for additional leverage
- Spare cutting wheel storage position in handle
- Replaceable cutting wheels: RW121/2, RW122

<table>
<thead>
<tr>
<th>UPC</th>
<th>NO.</th>
<th>CAPACITY</th>
</tr>
</thead>
<tbody>
<tr>
<td>12015</td>
<td>1</td>
<td>1/4&quot; to 1-5/8&quot; (6mm - 41mm)</td>
</tr>
</tbody>
</table>

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**Capacity**

**1/4" – 2-5/8"**

**Pipe and Tubing Cutter**

- Removable machinists reamer to easily deburr pipe
- Quick open and close mechanism to speed use
- Extra wheel storage available in handle
- Uses standard General Tools cutting wheels #RW122 or #RW121

<table>
<thead>
<tr>
<th>UPC</th>
<th>NO.</th>
<th>CAPACITY</th>
</tr>
</thead>
<tbody>
<tr>
<td>12017</td>
<td>5</td>
<td>1/4&quot; to 2-5/8&quot; (6mm - 67mm)</td>
</tr>
</tbody>
</table>
Our new mini cutters work in tighter locations that the Pro and DIY’er encounter. We call it Spin Radius. We’ve designed in contoured finger grip locations to increase comfort, working torque and speed. We added a large fluted, easy turning, adjusting knob, fine threaded feed screw and unique tracking rail system, to ensure reliable, smooth, friction free operation and greater torque. Adding our standard full sized bearing tool steel cutter to every General Mini makes our Pro Series our best ever.

**MINI TUBING CUTTER**
- Comfort grip design for easy turning
- Full size bearing tool steel cutter wheel
- Large fluted adjusting knob for greater torque
- Cuts copper, aluminum, brass, thin wall tubing and stainless steel
- Wide hardened flared grooved rollers allows true cuts close to flared end tubing to avoid tube replacement in existing installations

**CAPACITY**
- 1-1/2" swing radius
- Replaceable cutting wheel, RW121/2

<table>
<thead>
<tr>
<th>UPC</th>
<th>NO.</th>
<th>CAPACITY</th>
</tr>
</thead>
<tbody>
<tr>
<td>12032</td>
<td>129X</td>
<td>1/8&quot; to 7/8&quot; (3mm – 22mm)</td>
</tr>
</tbody>
</table>

**SUPER MINI TUBING CUTTER**
- Comfort grip design for easy turning
- Full size bearing tool steel cutter wheel
- Large fluted adjusting knob for greater torque
- Cuts copper, aluminum, brass, thin wall tubing and stainless steel
- Wide hardened flared grooved rollers allows true cuts close to flared end tubing to avoid tube replacement in existing installations

**CAPACITY**
- 1-11/16" swing radius
- Replaceable cutting wheel, RW121/2

<table>
<thead>
<tr>
<th>UPC</th>
<th>NO.</th>
<th>CAPACITY</th>
</tr>
</thead>
<tbody>
<tr>
<td>01240</td>
<td>124</td>
<td>1/8&quot; to 1-1/8&quot; (3mm – 30mm)</td>
</tr>
</tbody>
</table>

**MICRO TUBING CUTTER**
- Comfort grip design for easy turning
- Full size bearing tool steel cutter wheel
- Large fluted adjusting knob for greater torque
- Cuts copper, aluminum, brass, thin wall tubing and stainless steel
- Wide hardened flared grooved rollers allows true cuts close to flared end tubing to avoid tube replacement in existing installations

**CAPACITY**
- 1-3/8" swing radius
- Replaceable cutting wheel, RW121/2

<table>
<thead>
<tr>
<th>UPC</th>
<th>NO.</th>
<th>CAPACITY</th>
</tr>
</thead>
<tbody>
<tr>
<td>12009</td>
<td>123R</td>
<td>1/8&quot; to 5/8&quot; (3mm – 15mm)</td>
</tr>
</tbody>
</table>

“Precision, Specialty and Innovation . . . Since 1922”
General's full range of cutters makes the job easier to do for the professional plumber as well as the do-it-yourselfer. Each of our cutters produces cuts on copper, aluminum and thin wall tubing. Our 126 cutter is perfect for cutting iron pipe, tubing and PVC. Sizes range from 1/8" to 2-5/8" O.D. capacity. RW122 gold standard replacement cutter wheel fits No's. 120, 125, 126 cutters.

**E•Z" RATCHET TUBING CUTTER**
- Ratcheting action rotates the cutter around the tube allowing a standard size cutter to be used in close quarter applications
- Longer handle requires less effort to rotate cutter reducing hand fatigue
- Wide hardened flared grooved rollers allow true cuts close to flared end tubing to avoid tube replacement in existing installations
- Cuts copper, aluminum, brass, thin wall tubing and stainless steel
- Spare cutting wheel supplied in handle
- Replaceable cutting wheel: RW121/2

<table>
<thead>
<tr>
<th>UPC</th>
<th>NO</th>
<th>CAPACITY</th>
</tr>
</thead>
<tbody>
<tr>
<td>13300</td>
<td>133</td>
<td>5/16&quot; to 1-1/8&quot; (8mm – 30mm)</td>
</tr>
</tbody>
</table>

**T-34**

**E•Z" RATCHET II TUBE AND PIPE CUTTER**
- Cuts without rotating tool completely around tube or pipe
- Exclusive “One-Hand” operation
- Ratchets in 5° increments while cutting 360° around tube
- Large cutting diameter 1/8" to 1-1/8" (3mm-28mm)
- Cuts copper, brass, aluminum, stainless steel, PVC and thin wall conduit
- Replaceable cutting wheels: RW135/2

<table>
<thead>
<tr>
<th>UPC</th>
<th>NO</th>
<th>CAPACITY</th>
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</thead>
<tbody>
<tr>
<td>01350</td>
<td>135</td>
<td>1/8&quot; to 1-1/8&quot; (3mm-28mm)</td>
</tr>
<tr>
<td>01351</td>
<td>RW135/2</td>
<td>Replacement Wheel (2)</td>
</tr>
</tbody>
</table>

**HOSE AND TUBING CUTTER**
- Cuts flexible rubber, PVC, ABS & polyethylene tubing
- Long handles provide added leverage for easy cuts
- Curved holder supports hose for square cuts
- Replaceable steel blade
- Capacities: rubber hose 2", polyethylene and ABS pipe 1", PVC pipe 1"

<table>
<thead>
<tr>
<th>UPC</th>
<th>NO</th>
<th>CAPACITY</th>
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</thead>
<tbody>
<tr>
<td>01150</td>
<td>115</td>
<td>1&quot; to 2&quot; (25mm – 50mm)</td>
</tr>
<tr>
<td></td>
<td></td>
<td>LENGTH</td>
</tr>
<tr>
<td></td>
<td></td>
<td>9-1/2&quot; (241mm)</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>UPC</th>
<th>NO</th>
<th>CAPACITY</th>
</tr>
</thead>
<tbody>
<tr>
<td>11500</td>
<td>115B</td>
<td>Replacement Blade</td>
</tr>
</tbody>
</table>
General’s PVC Cutters are used for cutting PVC, PE and ABS pipe. All metal construction allows for greater durability. Ergonomically designed handle for greater comfort and control. The hose and tubing cutter cuts flexible rubber, PVC, ABS and Polyethylene tubing.

**TRIGGER ACTION PLASTIC PIPE AND HOSE CUTTER**
- For cutting PVC, CPVC, Polyethylene, PEX, ABS
- Easily fits into tight spaces
- Quick blade replacement

<table>
<thead>
<tr>
<th>UPC</th>
<th>NO.</th>
<th>CAPACITY</th>
</tr>
</thead>
<tbody>
<tr>
<td>01170</td>
<td>117</td>
<td>1-5/8” (42mm)</td>
</tr>
<tr>
<td>01171</td>
<td>117BG</td>
<td>Replacement Blade</td>
</tr>
</tbody>
</table>

**HEAVY-DUTY PIPE AND HOSE CUTTER**
- For repeated heavy-duty cutting
- Cuts hose, PVC, CPVC, polyethylene, PEX and ABS up to 2”
- Ratchet action for easy cutting
- High carbon steel blade provides longer sharpness and clean cuts
- Aluminum body is lighter and corrosion proof
- Safety locking clasp

<table>
<thead>
<tr>
<th>UPC</th>
<th>NO.</th>
<th>CAPACITY</th>
</tr>
</thead>
<tbody>
<tr>
<td>01181</td>
<td>118</td>
<td>up to 2” (50mm) 17” (425mm)</td>
</tr>
<tr>
<td>01180</td>
<td>118BG</td>
<td>Replacement Blade</td>
</tr>
</tbody>
</table>

**ONE-HANDED PVC/HOSE CUTTER**
- For cutting PVC, PE, PEX, ABS pipe
- Professional quality, all-metal construction for greater durability
- Ratcheting action for easy cutting
- High carbon steel blade provides longer sharpness and clean cuts
- Handle locks for safety
- Ergonomically designed handle for comfort

<table>
<thead>
<tr>
<th>UPC</th>
<th>NO.</th>
<th>CAPACITY</th>
<th>LENGTH</th>
</tr>
</thead>
<tbody>
<tr>
<td>01191</td>
<td>119</td>
<td>up to 1-5/8” 9-1/8” (40mm) (231mm)</td>
<td></td>
</tr>
</tbody>
</table>

**ONE-HANDED PLASTIC PIPE AND HOSE CUTTER**
- For cutting PVC, CPVC, Polyethylene, PEX and ABS tubing
- One-handed Operation
- Quick-Blade Reset
- Comes with extra blade
- Ratchet system holds blade in place while you adjust your grip to increase pressure
- High carbon steel blade maintains sharpness and resists chipping
- Handle locking strap for safe storage
- Exclusive, easy replaceable blade feature
- Ergonomically designed handle for comfort
- Replacement Blade, No.119BG

<table>
<thead>
<tr>
<th>UPC</th>
<th>NO.</th>
<th>CAPACITY</th>
<th>LENGTH</th>
</tr>
</thead>
<tbody>
<tr>
<td>31173</td>
<td>119</td>
<td>1/8” to 1-5/8” 8-1/4” (210mm)</td>
<td></td>
</tr>
<tr>
<td>01194</td>
<td>119BG</td>
<td>Replacement Blade</td>
<td></td>
</tr>
</tbody>
</table>

“Precision, Specialty and Innovation . . . Since 1922”
General’s PVC Cutters are used for cutting PVC, PE and ABS pipe. All-metal construction allows for greater durability. Ergonomically designed handle allows for comfort and control. The hose and tubing cutter cuts flexible rubber, PVC, ABS and Polyethylene tubing.

**PVC PIPE CABLE SAW**
- For cutting PVC pipe in confined work areas
- 24” stainless steel serrated cutting cable
- Easily cuts pipe up to 8” in diameter
- Comfort grip handles

<table>
<thead>
<tr>
<th>UPC</th>
<th>NO.</th>
<th>CAPACITY</th>
</tr>
</thead>
<tbody>
<tr>
<td>08580</td>
<td>858</td>
<td>8” dia. (200mm)</td>
</tr>
</tbody>
</table>

**JUNIOR HACKSAW**
- Handy cutting tool for hobbyists, do-it-yourselfers and professionals
- Ergonomically designed with a comfortable high-impact plastic handle
- 6” (150mm) replaceable heat treated blade for cutting metal
- Sturdy tubular frame

- Reversible blade for push or pull cutting
- No. 864B, set of 6 replacement blades: 3 wood and 3 metal are available

<table>
<thead>
<tr>
<th>UPC</th>
<th>NO.</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>43067</td>
<td>864</td>
<td></td>
</tr>
</tbody>
</table>

**COMPOUND TUBING BENDER**
- Bending copper, brass, thin wall tubing, aluminum, soft wire and rods
- 180 bends in a single action
- Bender dial is calibrated in twelve 15° increments
- Bends four different diameter tubes
- Ergonomically designed handles for greater comfort

- Durable die-cast alloy construction
- Extra-long handle for greater leverage
- Includes vinyl storage case

<table>
<thead>
<tr>
<th>UPC</th>
<th>NO.</th>
<th>CAPACITY</th>
</tr>
</thead>
<tbody>
<tr>
<td>14019</td>
<td>153</td>
<td>3/16” (5mm), 1/4” (6mm), 5/16” (8mm), 3/8” (10mm)</td>
</tr>
</tbody>
</table>

**TUBING BENDERS**
- These tools eliminate crimping and collapsing of copper and other thin wall tubing. Made of oil hardened and tempered spring steel
- Our tubing bender set contains one each of the sizes listed below, packaged in a display box

<table>
<thead>
<tr>
<th>UPC</th>
<th>NO.</th>
<th>TUBE SIZE OUTSIDE DIA.</th>
</tr>
</thead>
<tbody>
<tr>
<td>11009</td>
<td>S106</td>
<td>1/4”, 5/16”, 3/8”, 7/16”, 1/2”, 5/8”</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>TUBE SIZE OUTSIDE DIA.</th>
<th>LENGTH</th>
</tr>
</thead>
<tbody>
<tr>
<td>1/4”</td>
<td>10-1/2”</td>
</tr>
<tr>
<td>5/16”</td>
<td>10-1/2”</td>
</tr>
<tr>
<td>3/8”</td>
<td>10-1/2”</td>
</tr>
<tr>
<td>7/16”</td>
<td>10-1/2”</td>
</tr>
<tr>
<td>1/2”</td>
<td>11-3/4”</td>
</tr>
<tr>
<td>5/8”</td>
<td>11-3/4”</td>
</tr>
</tbody>
</table>
General’s Flaring Tools are essential for setting up or repairing flared tubing installations. Accurately flare copper, aluminum and thin wall tubing for leak free connections.

Each flaring tool forms 45° flares in seven popular sizes. Made of rust resistant plated steel bars. Tubing Benders will bend copper, brass, thin wall tubing, aluminum, soft wire and rods.

**DOUBLE FLARING TOOL**
- Specially designed to double flare tubing for high pressure applications in automotive, air conditioning and refrigeration
- Accurately single or double flares copper, aluminum and thin wall tubing for leak free connections
- Quick opening plated steel bars for easy insertion and removal of tubing

<table>
<thead>
<tr>
<th>UPC</th>
<th>NO.</th>
<th>CAPACITY</th>
</tr>
</thead>
</table>

**PLIER FLARING TOOL**
- All-steel construction
- Freewheeling cone self centers accurately over tubing
- Quick release allows insertion and removal of tubing easily
- Quick release plier action handles hold tubing securely while flaring

<table>
<thead>
<tr>
<th>UPC</th>
<th>NO.</th>
<th>CAPACITY</th>
</tr>
</thead>
</table>

**FLARING TOOLS**
- High quality tool moderately priced
- Screw yoke slips quickly over bars without removing heavy-duty wing nuts
- Yokes have a freewheeling 45° plated cone for faster, smoother flaring and greater strength in flaring copper, aluminum, brass and thin wall tubing
- Large heavy-duty hardened feed thread for durability
- Long sliding T-handle provides maximum leverage

<table>
<thead>
<tr>
<th>UPC</th>
<th>NO.</th>
<th>CAPACITY</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>155</td>
<td>(Industrial) 3/16&quot;, 1/4&quot;, 5/16&quot;</td>
</tr>
</tbody>
</table>

“Precision, Specialty and Innovation . . . Since 1922”
PLUMBING TOOLS
Reamers & Swaging Tools

General offers a wide selection of Reamers and Deburring Tools to plumbers, auto mechanics, steam-fitters, metal workers and mechanics. All of General’s Reamers are precision hardened with ground cutting edges for durability. Reamers are used for removing burrs from cut pipe, tubing and conduit as well as for enlarging and counter-sinking holes in sheet metal, plastic and other material.

T-HANDLE REAMER
- Made of hardened and tempered tool steel with precision ground cutting edges
- T-handle provides leverage for easier reaming

<table>
<thead>
<tr>
<th>UPC</th>
<th>NO.</th>
<th>CAPACITY</th>
<th>LENGTH</th>
</tr>
</thead>
<tbody>
<tr>
<td>13003</td>
<td>130</td>
<td>1/8” to 1/2” (3mm – 12mm)</td>
<td>5-3/4” (146mm)</td>
</tr>
</tbody>
</table>

SCREWDRIVER HANDLE REAMER
- General’s easy-to-use reamer is perfect for in-home plumbing
- Fluted plastic handle
- Hardened and ground tempered steel

<table>
<thead>
<tr>
<th>UPC</th>
<th>NO.</th>
<th>CAPACITY</th>
<th>LENGTH</th>
</tr>
</thead>
<tbody>
<tr>
<td>13006</td>
<td>131</td>
<td>3/8” (10mm)</td>
<td>6-1/2” (165mm)</td>
</tr>
</tbody>
</table>

INNER/OUTER REAMER
- Inner/Outer Reamer will work on steel, iron, copper and PVC
- Zinc die-cast body
- Capacity 1-1/2” diameter (12.7mm)
- Grooved outer body gives you an easy grip
- Internal and external reamers are made of heat treated high carbon steel

<table>
<thead>
<tr>
<th>UPC</th>
<th>NO.</th>
<th>CAPACITY</th>
</tr>
</thead>
<tbody>
<tr>
<td>22077</td>
<td>134</td>
<td>1-1/2” (38mm)</td>
</tr>
</tbody>
</table>

HAND REAMER AND COUNTERSINK
- Handy tool for countersinking or deburring small jobs
- The 3/4” five-flute tool steel cutter makes fast work of deburring. Deburring plastic, copper, iron pipe and sheet metal
- Heavy-duty, ergonomically designed handle

<table>
<thead>
<tr>
<th>UPC</th>
<th>NO.</th>
<th>CAPACITY</th>
<th>LENGTH</th>
</tr>
</thead>
<tbody>
<tr>
<td>23054</td>
<td>196</td>
<td>3/4” (19mm)</td>
<td>5-1/8” (130mm)</td>
</tr>
</tbody>
</table>

4-PIECE SWAGING TOOL SET
- An easy and economical method of joining copper tubing
- Eliminates the need for coupling
- Hex body prevents rolling and allows easy removal from tube
- Heat treated alloy steel, plated to prevent rust

<table>
<thead>
<tr>
<th>UPC</th>
<th>NO.</th>
<th>SPECIFICATIONS</th>
</tr>
</thead>
<tbody>
<tr>
<td>14018</td>
<td>154ST</td>
<td>Set of 4 Swaging Tools</td>
</tr>
</tbody>
</table>

SIZES:
- 1/4”, 3/8”, 1/2”, 5/8”

6-IN-1 SWAGING TOOL
- Handy swaging tool expands tubing eliminating the need for couplings
- Expands six tubing sizes: 3/16”, 1/4”, 5/16”, 3/8”, 1/2” and 5/8” O.D. tubing
- Use with a flaring bar to hold tubing

<table>
<thead>
<tr>
<th>UPC</th>
<th>NO.</th>
<th>LENGTH</th>
</tr>
</thead>
<tbody>
<tr>
<td>01545</td>
<td>1545</td>
<td>5-1/4” (133mm)</td>
</tr>
</tbody>
</table>

ALWAYS WEAR OSHA APPROVED SAFETY GOGGLES

PLUMBING TOOLS
T-38
Deburring Tools are used for removing burrs from cut pipe, tubing, conduit and PVC tubing. Swaging Tools are an easy and economical method of joining copper tubing.

The Pipe and Fitting Brushes are used for cleaning inside and outside diameters of tubing and fittings in preparation for solder when sweating pipes.

### SWIVEL HEAD DEBURRING TOOL
- Professional quality and performance of higher price deburring tools
- Two interchangeable blades

<table>
<thead>
<tr>
<th>UPC</th>
<th>NO.</th>
<th>HANDLE LENGTH</th>
</tr>
</thead>
<tbody>
<tr>
<td>42324</td>
<td>482</td>
<td>5-1/8&quot; (130mm)</td>
</tr>
<tr>
<td>42327</td>
<td>482A</td>
<td>Blade for steel, copper, aluminum and plastic</td>
</tr>
<tr>
<td>42330</td>
<td>482B</td>
<td>Blade for brass and cast iron.</td>
</tr>
</tbody>
</table>

### DEBURRING TOOL
- Pivot blade allows easy burr removal from iron pipe, copper and PVC tubing
- Includes one replacement blade in storage handle
- High impact plastic for durability
- Replacement blades 482A & B are available

<table>
<thead>
<tr>
<th>UPC</th>
<th>NO.</th>
<th>HANDLE LENGTH</th>
</tr>
</thead>
<tbody>
<tr>
<td>60481</td>
<td>481</td>
<td>5&quot; (127mm)</td>
</tr>
<tr>
<td>42327</td>
<td>482A</td>
<td>Blade for steel, copper, aluminum and plastic</td>
</tr>
<tr>
<td>42330</td>
<td>482B</td>
<td>Blade for brass and cast iron.</td>
</tr>
</tbody>
</table>

### BRASS AND STAINLESS STEEL CLEANING BRUSHES
- Handy utility brushes clean pipe, battery terminals, spark plugs and more
- Brass brush is recommended for cleaning softer materials
- Steel brush provides extra abrasion needed to clean pipe

<table>
<thead>
<tr>
<th>UPC</th>
<th>NO.</th>
</tr>
</thead>
<tbody>
<tr>
<td>01102</td>
<td>1102 (set of 2)</td>
</tr>
</tbody>
</table>

### 4-IN-1 PLUMBING BRUSH
- 4-IN-1 brush cleans both the inside and outside of copper tubing in preparation for solder when sweating pipes
- Cleans most popular 1/2" and 3/4" I.D. tube and 5/8" and 7/8" O.D. tube

<table>
<thead>
<tr>
<th>UPC</th>
<th>NO.</th>
</tr>
</thead>
<tbody>
<tr>
<td>01140</td>
<td>114</td>
</tr>
</tbody>
</table>

### 2-IN-1 PIPE AND FITTING BRUSHES
- Cleans I.D. and O.D. of tubing and fittings
- Long lasting steel bristles
- Designed for comfortable use and easy storage

<table>
<thead>
<tr>
<th>UPC</th>
<th>NO.</th>
<th>CAPACITY</th>
</tr>
</thead>
<tbody>
<tr>
<td>22075</td>
<td>110</td>
<td>1/2&quot; (12mm)</td>
</tr>
<tr>
<td>22076</td>
<td>111</td>
<td>3/4&quot; (19mm)</td>
</tr>
</tbody>
</table>
Basin Wrenches are used to turn fasteners in confined spaces. The pivoting jaws and long handle permits access to holding nuts behind basins.

The Faucet Valve Seat Wrench is a simple tool used to remove the faucet body valve so it may be replaced.

### Basin Wrenches
- Pivoting jaws and long handle permits access to holding nuts behind basin
- Sliding T-handle for working in confined areas
- Spring loaded jaws for one-hand ratcheting
- All handles are plated to prevent rust
- 140X, 140XL extends from 11” (280mm) to 16” (400mm)
- The 140 is 11” long

<table>
<thead>
<tr>
<th>UPC</th>
<th>NO.</th>
<th>CAPACITY</th>
</tr>
</thead>
<tbody>
<tr>
<td>13019</td>
<td>8</td>
<td>140 3/8” - 1-1/4” (10mm - 31mm)</td>
</tr>
<tr>
<td>13033</td>
<td>4</td>
<td>140X 3/8” - 1-1/4” (10mm - 31mm)</td>
</tr>
<tr>
<td>01401</td>
<td>6</td>
<td>140XL 1” - 2” (25mm - 50mm)</td>
</tr>
</tbody>
</table>

### Seat Wrenches
- Tapered seat wrenches for the removal of faucet seats
- Hardened alloy steel
- Plated to prevent rust

<table>
<thead>
<tr>
<th>UPC</th>
<th>NO.</th>
<th>SIZE</th>
</tr>
</thead>
<tbody>
<tr>
<td>13020</td>
<td>4</td>
<td>138S .235 - .300” Stepped</td>
</tr>
<tr>
<td>13016</td>
<td>7</td>
<td>138T .230 - .400” Tapered</td>
</tr>
</tbody>
</table>
Internal Pipe Wrenches are used for the removal of broken thread ends of pipe, pipe plugs and fittings lodged inside other pipes. The Nipple Extractor is used to remove broken iron pipe nipples by tapping them snugly into the broken pipe end and then turning counterclockwise with a wrench or socket that fits the hex end.

### INTERNAL PIPE WRENCHES
General’s Internal Pipe Wrenches make it easy to remove broken thread ends of pipe, pipe plugs and fittings lodged inside other pipe. They can be used for:
- HVAC/R, plumbing
- Hex body designed for standard wrenches
- Pipe size marked on each wrench
- Heat treated alloy steel cams plated to resist rust
- Conforms to Government Specification GGG-W643b
- Available individually or in set of four sizes

#### INDIVIDUAL SIZES

<table>
<thead>
<tr>
<th>UPC</th>
<th>NO.</th>
<th>SPECIFICATIONS</th>
<th>LENGTH</th>
</tr>
</thead>
<tbody>
<tr>
<td>13013</td>
<td>6</td>
<td>3/8&quot; (9.7mm)</td>
<td>3-3/4&quot; (95.25mm)</td>
</tr>
<tr>
<td>13014</td>
<td>3</td>
<td>1/2&quot; (12mm)</td>
<td>3-3/4&quot; (95.25mm)</td>
</tr>
<tr>
<td>13015</td>
<td>0</td>
<td>3/4&quot; (20mm)</td>
<td>3-3/4&quot; (95.25mm)</td>
</tr>
<tr>
<td>13023</td>
<td>5</td>
<td>1&quot; (25mm)</td>
<td>3-3/4&quot; (95.25mm)</td>
</tr>
</tbody>
</table>

#### SETS

<table>
<thead>
<tr>
<th>UPC</th>
<th>NO.</th>
<th>SPECIFICATIONS</th>
</tr>
</thead>
<tbody>
<tr>
<td>13017</td>
<td>4</td>
<td>Set of 3 Internal Pipe Wrenches (139A, 139B, 139C)</td>
</tr>
<tr>
<td>13026</td>
<td>6</td>
<td>Set of 4 Internal Pipe Wrenches (139A, 139B, 139C, 139D)</td>
</tr>
</tbody>
</table>

### UTILITY INTERNAL PIPE WRENCHES AND SET
- For the removal of broken threaded ends of pipe, pipe plugs and fittings
- Hex body can be used with a wrench
- Pipe sizes are marked on each wrench
- Heat treated alloy steel, plated to prevent rust
- Size stamped on body

#### INDIVIDUAL SIZES

<table>
<thead>
<tr>
<th>UPC</th>
<th>NO.</th>
<th>SPECIFICATIONS</th>
</tr>
</thead>
<tbody>
<tr>
<td>01392</td>
<td>7</td>
<td>3/8&quot; (9.7mm)</td>
</tr>
<tr>
<td>01393</td>
<td>4</td>
<td>1/2&quot; (12mm)</td>
</tr>
</tbody>
</table>

#### SET

<table>
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<tr>
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<th>NO.</th>
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</thead>
<tbody>
<tr>
<td>01390</td>
<td>3</td>
</tr>
</tbody>
</table>

### 5-PIECE IRON PIPE NIPPLE EXTRACTOR SET
- Used to remove broken iron pipe nipples by tapping them snugly into the broken pipe end; then turn counterclockwise with a wrench or socket that fits the hex end
- Fits iron pipe nipples: NPT 1/8", 1/4", 3/8", 1/2" and 3/4"
- Plated to prevent rust
- Tapered design for a snug fit and heat-treated for longer life
- Size stamped on body

#### INDIVIDUAL SIZES

<table>
<thead>
<tr>
<th>UPC</th>
<th>NO.</th>
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</thead>
<tbody>
<tr>
<td>01395</td>
<td>8</td>
</tr>
</tbody>
</table>

"Precision, Specialty and Innovation . . . Since 1922"
PLUMBING TOOLS
Pliers / Pipe Wrenches

Plumbing Pliers, which have chrome plated forged steel jaws, provide ample capacity for most pipes, nipples and fittings up to 2". The plier has removable jaw covers to protect plated nuts or pipes from damage. Pipe Wrenches have forged and ground jaws which provide ample capacity for most pipes, nipples and fittings up to 3". Both pipe wrenches have long handles for extra leverage and torquing.

**UNDERSINK DRAIN PLER**
- Our exclusive designed pliers fits all sink drain, slip, trap and compression nuts, basin and sink lock nuts
- A true fits-everything drain pliers
- The 3 position slip joint allows the pliers to work on all 1-1/4", 1-1/2" and 2" plastic and metal drain systems
- Jaws expand to a huge 4" opening for large strainer nuts
- Removable rubber jaw covers to protect plated nuts or pipes from damage
- The textured handles provide a sure grip even with wet hands
- Replaces jaw wrenches, slip nut and combination wrenches
- Corrosion resistant chrome-plated
- Can be used as oil filter pliers

<table>
<thead>
<tr>
<th>UPC</th>
<th>NO.</th>
<th>CAPACITY</th>
</tr>
</thead>
<tbody>
<tr>
<td>16900</td>
<td>4</td>
<td>up to 4&quot; (102mm) 10-1/4&quot; (260mm)</td>
</tr>
</tbody>
</table>

**IRON PIPE WRENCHES**
- Professional quality
- Forged and ground jaws
- Hang hole in handle

<table>
<thead>
<tr>
<th>UPC</th>
<th>NO.</th>
<th>SIZE</th>
<th>CAPACITY</th>
</tr>
</thead>
<tbody>
<tr>
<td>01491</td>
<td>7</td>
<td>10&quot; (250mm) 1-1/2&quot; (38mm)</td>
<td></td>
</tr>
<tr>
<td>01492</td>
<td>4</td>
<td>14&quot; (350mm) 2&quot; (50mm)</td>
<td></td>
</tr>
<tr>
<td>01493</td>
<td>1</td>
<td>18&quot; (450mm) 2-1/2&quot; (65mm)</td>
<td></td>
</tr>
</tbody>
</table>

**SOFT JAW PLUMBING PLIER**
- Adjustable forged pliers with removable protective soft grip jaws
- Remove soft jaws for standard work
- Textured cushion grips provide a sure grip even with wet hands
- Includes a spare set of soft jaws
- Durable chrome plated forged steel jaws provide ample capacity for most pipes, nipples and fittings up to 2"
- 10" overall length provides extra torque

<table>
<thead>
<tr>
<th>UPC</th>
<th>NO.</th>
<th>CAPACITY</th>
<th>LENGTH</th>
</tr>
</thead>
<tbody>
<tr>
<td>01590</td>
<td>7</td>
<td>2&quot; (50mm)</td>
<td>10&quot; (254mm)</td>
</tr>
</tbody>
</table>
The Strainer Lock Nut Wrench is useful in applications where shorter wrenches cannot reach. The dual-ended Plug Wrench tool accommodates different styles of basket strainers and pop-up plugs. Our Adjustable Sink Wrench gives you the power to tackle all types of stubborn fittings, including spud, slip, lock and basket-strainer nuts. The Spud Wrench removes stubborn slip nuts, locknuts and spuds in tight places.

**Strainer Lock Nut Wrench**

- Adjustable jaw wrench is used to install or remove all strainer basket lock nuts
- Extra long comfort grip handle allows access to lock nuts other wrenches can't reach
- Non-rusting finish
- Use with Model No. 183, Basket Strainer Wrench, to prevent slipping

<table>
<thead>
<tr>
<th>UPC</th>
<th>NO.</th>
<th>LENGTH</th>
</tr>
</thead>
<tbody>
<tr>
<td>01850 1</td>
<td>186</td>
<td>12” (300mm)</td>
</tr>
</tbody>
</table>

**Plug Wrench**

- Holds pop-up plugs and basket strainers in position
- Prevents rotation of basket strainers during installation
- Zinc plated to prevent rust

<table>
<thead>
<tr>
<th>UPC</th>
<th>NO.</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>22157 5</td>
<td>193</td>
<td></td>
</tr>
</tbody>
</table>

**Adjustable Wrench**

- Jaws have a cutout for convenient locknut installation
- Fits spudnuts, slip and locknuts and basket strainer nuts
- Adjusts from 1” to 3” (25-75mm)
- Zinc plated to prevent rust

<table>
<thead>
<tr>
<th>UPC</th>
<th>NO.</th>
<th>LENGTH</th>
</tr>
</thead>
<tbody>
<tr>
<td>22155 1</td>
<td>190</td>
<td>10-1/4” (260mm)</td>
</tr>
</tbody>
</table>

**Spud Wrench**

- Even in tight spaces, stubborn slip nuts, locknuts and spuds are no match for this tool
- Handles three sizes of hex nuts: 1-3/4” (45mm), 2” (51mm), 2-1/2” (64mm)
- 1/2” lug turn and pivot hook
- Stamped steel construction
- Nickel plated to prevent rust

<table>
<thead>
<tr>
<th>UPC</th>
<th>NO.</th>
<th>LENGTH</th>
</tr>
</thead>
<tbody>
<tr>
<td>22156 8</td>
<td>191</td>
<td>9-3/8” (238mm)</td>
</tr>
</tbody>
</table>
General’s durable Tub Drain Remover and Shower Valve Wrench Set provide easy solutions for problematic bathroom plumbing repairs. Our Basket Strainer Wrench has a sliding handle for secure grip and needed torque. The Stub Wrench has 8-tapered flutes that fit inside broken pipes for effortless removal of plastic plumbing and garden hose debris.

TUB DRAIN REMOVER
- Used to install or remove tub drains with or without crossbars. Tap in for a snug fit then turn with a wrench or large screwdriver
- Double ended to fit most tub drains
- Durable cast construction

<table>
<thead>
<tr>
<th>UPC</th>
<th>NO.</th>
<th>TYPE</th>
<th>SIZES</th>
</tr>
</thead>
<tbody>
<tr>
<td>01850</td>
<td>2</td>
<td>185</td>
<td>1-1/4&quot; (32mm)</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>1-3/8&quot; (36mm)</td>
</tr>
</tbody>
</table>
Our Garbage Disposal Wrench positions easily at the top of a disposal’s shredder plate for fast removal of stubborn clogs. Old shower and sink faucet handles are rapidly removed with General’s Faucet Handle Puller. The 4-Way Faucet Wrench Stem works on stop cocks, sill cocks and valves with square heads while our Cartridge Puller makes quick, economic repairs to leaking valve stems and cartridges.

**GARBAGE DISPOSAL WRENCH**
- This universal wrench safely dislodges garbage disposal shredder plate jams
- Swivel head design provides easy position on the shredder plate
- The large flat surface cushion grip handle provides a comfortable grip

<table>
<thead>
<tr>
<th>UPC</th>
<th>NO.</th>
<th>LENGTH</th>
</tr>
</thead>
<tbody>
<tr>
<td>01920</td>
<td>192</td>
<td>11.5” (292mm)</td>
</tr>
</tbody>
</table>

**FAUCET HANDLE PULLER**
- Removes large and small faucet handles with ease
- Two adjustable fingers four inches long for a more secure grip

<table>
<thead>
<tr>
<th>UPC</th>
<th>NO.</th>
</tr>
</thead>
<tbody>
<tr>
<td>22158</td>
<td>180</td>
</tr>
</tbody>
</table>

**4-WAY FAUCET WRENCH**
- One tool does the work of four individual wrenches
- Sizes: 1/4", 9/32", 5/16", 11/32" internal square
- Fits stopcocks, sillcocks and valves
- Heat treated steel for greater strength

<table>
<thead>
<tr>
<th>UPC</th>
<th>NO.</th>
</tr>
</thead>
<tbody>
<tr>
<td>22159</td>
<td>182</td>
</tr>
</tbody>
</table>

**STEM AND CARTRIDGE PULLER**
- Works on plastic and brass cartridge stems for faucets, tubs and shower valves
- For easy removal of Moen® style single lever faucet stem and cartridge and other plastic and cartridge sleeve
- Works on plastic and brass faucets and shower valves

<table>
<thead>
<tr>
<th>UPC</th>
<th>NO.</th>
</tr>
</thead>
<tbody>
<tr>
<td>01809</td>
<td>1809</td>
</tr>
</tbody>
</table>
Strap Wrenches provide a non-marring, slip-resistant grip. These wrenches are ideal for working on decorative finishes or irregular shapes.

The Mini-Drain Snake will clean out most problems of blocking sinks, bathtubs or toilets within 2 feet of the openings.

**RUBBER STRAP WRENCH**
- Fits any shape
- Rubber strap for a non-marring, slip resistant grip
- Tough thin strap works in tight spaces
- Holds, loosens or tightens
- Can also be used for removing tight jar lids

<table>
<thead>
<tr>
<th>UPC</th>
<th>NO.</th>
<th>CAPACITY</th>
</tr>
</thead>
<tbody>
<tr>
<td>01566</td>
<td>1566</td>
<td>6” O.D. (152mm)</td>
</tr>
</tbody>
</table>

**MINI-DRAIN SNAKE**
- The Mini Snake will clean out most problems of blocked sinks, bathtubs or toilets within two feet of the opening
- The sharp ended scraper will cut through most debris in openings 1/2” or larger
- The flexible rod conforms to drain pipe without binding
- The rod is plated to prevent rust and last for years
- Useful for central vacuum clogs

<table>
<thead>
<tr>
<th>UPC</th>
<th>NO.</th>
<th>LENGTH</th>
</tr>
</thead>
<tbody>
<tr>
<td>00201</td>
<td>201</td>
<td>24” (600mm)</td>
</tr>
</tbody>
</table>
**General's Automatic Center Punches**

Machinist Tools

General's Automatic Center Punches offer a precise way to punch center holes for drilling in layout work. Single-handed operation with stored energy design eliminates the need for striking the punch with a hammer. Spring tension cap can be adjusted for light to heavy strokes. Punch depth can be set for repetitive work.

### Professional Automatic Center Punch

- Punches, marks, scribes and starts drill, nail or screw holes
- One-hand spring impact operation, no hammer needed
- Spring tension adjusts for light or heavy markings

<table>
<thead>
<tr>
<th>No.</th>
<th>A</th>
<th>B</th>
<th>C</th>
<th>D</th>
<th>E</th>
</tr>
</thead>
<tbody>
<tr>
<td>79</td>
<td>3/16&quot; (5mm)</td>
<td>4-7/8&quot; (124mm)</td>
<td>3-29/32&quot; (99mm)</td>
<td>1/2&quot; (12mm)</td>
<td>.055&quot; (1.4mm)</td>
</tr>
<tr>
<td>79P</td>
<td>Replacement point</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>79P/2</td>
<td>Replacement points (2)</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### HEAVY-DUTY Professional Automatic Center Punch

- Heavy-duty center punch
- Punches, marks, scribes and starts drill, nail or screw holes
- One-hand spring impact operation, no hammer needed
- Spring tension adjusts for light or heavy markings
- Black oxide finish inhibits rust
- All-steel body with replaceable hardened steel point

<table>
<thead>
<tr>
<th>No.</th>
<th>A</th>
<th>B</th>
<th>C</th>
<th>D</th>
<th>E</th>
</tr>
</thead>
<tbody>
<tr>
<td>78</td>
<td>17/64&quot; (7mm)</td>
<td>5-5/8&quot; (143mm)</td>
<td>4-9/32&quot; (109mm)</td>
<td>5/8&quot; (16mm)</td>
<td>.083&quot; (2.1mm)</td>
</tr>
<tr>
<td>78P</td>
<td>Replacement point</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### Machinist’s Automatic Center Punch

- Punches, marks, scribes and starts drill, nail or screw holes
- One-hand spring impact operation, no hammer needed
- Spring tension adjusts for light or heavy markings

<table>
<thead>
<tr>
<th>No.</th>
<th>A</th>
<th>B</th>
<th>C</th>
<th>D</th>
<th>E</th>
</tr>
</thead>
<tbody>
<tr>
<td>77</td>
<td>1/4&quot; (6mm)</td>
<td>5&quot; (127mm)</td>
<td>3-29/32&quot; (99mm)</td>
<td>5/8&quot; (16mm)</td>
<td>.104&quot; (2.6mm)</td>
</tr>
</tbody>
</table>

### Stainless Steel Automatic Center Punch

- Provides accurate center punches to prevent drill bits from traveling
- One-hand spring impact operation, no hammer needed
- For marking, punching & staking
- Durable stainless steel body will not rust

<table>
<thead>
<tr>
<th>No.</th>
<th>A</th>
<th>B</th>
<th>C</th>
<th>D</th>
<th>E</th>
</tr>
</thead>
<tbody>
<tr>
<td>89</td>
<td>5/32&quot; (4mm)</td>
<td>5-1/4&quot; (133mm)</td>
<td>4&quot; (102mm)</td>
<td>9/16&quot; (14mm)</td>
<td>.070&quot; (1.8mm)</td>
</tr>
</tbody>
</table>

### Pocket Automatic Center Punch

- Pencil slim design with pocket clip
- Punches, marks, scribes and starts drill, nail or screw holes
- One-hand spring impact operation, no hammer needed

<table>
<thead>
<tr>
<th>No.</th>
<th>A</th>
<th>B</th>
<th>C</th>
<th>D</th>
<th>E</th>
</tr>
</thead>
<tbody>
<tr>
<td>87</td>
<td>1/8&quot; (3mm)</td>
<td>5-3/4&quot; (146mm)</td>
<td>5-11/16&quot; (144mm)</td>
<td>5/16&quot; (8mm)</td>
<td>.058&quot; (1.5mm)</td>
</tr>
</tbody>
</table>

**UPC NO. A B C D E**

- 31072 9 79 3/16" (5mm) 4-7/8" (124mm) 3-29/32" (99mm) 1/2" (12mm) .055" (1.4mm)
- 31078 1 79P Replacement point
- 31079 8 79P/2 Replacement points (2)
- 31066 8 79 5/32" (4mm) 5-1/4" (133mm) 4" (102mm) 9/16" (14mm) .070" (1.8mm)
Drive Pin Punches are well proportioned, hardened, tempered and have a knurled finger grip. Designed to withstand hard use, they are perfect in the machine shop as well as in the motor service industry.

Machinists use our shank punches for marking work in layout and drilling operations. These tools are constructed of hardened and ground alloy tool steel for maximum strength and durability.

**UTILITY AUTOMATIC CENTER PUNCH**
- Punches, marks, scribes and starts drill, nail or screw holes
- One-hand spring impact operation, no hammer needed
- Ball bearing action
- Lightweight aluminum body with long wearing alloy steel parts
- Hardened steel point

<table>
<thead>
<tr>
<th>UPC</th>
<th>NO.</th>
<th>A</th>
<th>B</th>
<th>C</th>
<th>D</th>
<th>E</th>
</tr>
</thead>
<tbody>
<tr>
<td>22339</td>
<td>5</td>
<td>70079</td>
<td>5/32&quot; (4mm)</td>
<td>5&quot; (127mm)</td>
<td>3-15/16&quot; (100mm)</td>
<td>1/2&quot; (12mm)</td>
</tr>
</tbody>
</table>

**ROUND SHANK CENTER PUNCHES**
- Points are ground to size for maximum strength and penetration
- Knurled body
- Stamped with size for quick identification
- Packed in a vinyl case

**EXTRA LONG DRIVE PIN PUNCHES**
- Made of tool steel, hardened and centerless ground
- For use on work not accessible with shorter punches
- Knurled body
- Packed in a vinyl case
- Conforms to gov. specs, GGG-P-831E

**DRIVE PIN PUNCHES**
- Tool steel punches are uniformly heat treated and centerless ground to withstand the hardest use
- Ends are ground square for accurate pin driving
- Packed in a plastic case

---

“Precision, Specialty and Innovation . . . Since 1922”
General manufactures a complete line of Scribers for machinists, engravers, mechanics and craftspeople. A basic tool for layout work and tool marking.

General’s Scribers are used for marking and engraving on metal, glass, plastics and ceramics.

### CARBIDE TIP SCRIBER WITH MAGNET
- Tungsten carbide tip marks hard materials including hardened steel, stainless steel, ceramics and glass
- Permanent magnet picks up small parts and retrieves steel chips from hard-to-reach places
- Screw chuck for reversing tungsten carbide point when not in use
- Knurled aluminum handle provides maximum control and comfort
- Point is replaceable
- Convenient pocket-clip

<table>
<thead>
<tr>
<th>UPC</th>
<th>NO.</th>
<th>1/16&quot;</th>
<th>5/16&quot;</th>
</tr>
</thead>
<tbody>
<tr>
<td>31116 0</td>
<td>88CM</td>
<td>(8mm)</td>
<td>(13mm)</td>
</tr>
<tr>
<td>31114 6</td>
<td>88P</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### TUNGSTEN CARBIDE TIP SCRIBER/ETCHING PEN
- Tungsten carbide tip marks hard materials including hardened steel, stainless steel, ceramics and glass
- Screw chuck for reversing tungsten carbide point when not in use
- Knurled aluminum handle provides maximum control and comfort
- Point is replaceable
- Convenient pocket-clip

<table>
<thead>
<tr>
<th>UPC</th>
<th>NO.</th>
<th>9/32&quot;</th>
<th>5-7/16&quot;</th>
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</thead>
<tbody>
<tr>
<td>31112 2</td>
<td>88</td>
<td>(7mm)</td>
<td>(138mm)</td>
</tr>
<tr>
<td>31114 6</td>
<td>88P</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### UTILITY CARBIDE TIP SCRIBER/ETCHING PEN
- Tungsten carbide point for marking and scribing steel, ceramics and glass
- Magnet picks up small parts and retrieves steel chips from hard-to-reach places
- Knurled aluminum handle provides maximum control and comfort
- Convenient pocket-clip

<table>
<thead>
<tr>
<th>UPC</th>
<th>NO.</th>
<th>9/32&quot;</th>
<th>4-13/16&quot;</th>
</tr>
</thead>
<tbody>
<tr>
<td>22340 1</td>
<td>70088</td>
<td>(7mm)</td>
<td>(122mm)</td>
</tr>
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</table>

### POCKET SCRIBER
- Replaceable hardened and centerless ground steel point
- Point reverses into knurled body for safety
- Hex cap prevents rolling
- Conforms to government specifications GGG-S-131E

<table>
<thead>
<tr>
<th>UPC</th>
<th>NO.</th>
<th>3/8&quot;</th>
<th>1/2&quot;</th>
</tr>
</thead>
<tbody>
<tr>
<td>31092 7</td>
<td>81</td>
<td>(10mm)</td>
<td>(12mm)</td>
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<tr>
<td>31094 1</td>
<td>81P</td>
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</table>

### POCKET SCRIBER
- Replaceable hardened and centerless ground steel point
- Point reverses into knurled body for safety
- Hex cap prevents rolling
- Conforms to government specifications GGG-S-131E

<table>
<thead>
<tr>
<th>UPC</th>
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<th>3/16&quot;</th>
<th>1/4&quot;</th>
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</thead>
<tbody>
<tr>
<td>31098 9</td>
<td>83</td>
<td>(5mm)</td>
<td>(6mm)</td>
</tr>
<tr>
<td>31100 9</td>
<td>83P</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### REPLACEABLE NEEDLEPOINT SCRIBER
- Scribes stainless steel, copper and brass
- Nork pattern scriber
- Four extra points are stored under cap

<table>
<thead>
<tr>
<th>UPC</th>
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<th>1/4&quot;</th>
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</thead>
<tbody>
<tr>
<td>31102 3</td>
<td>84</td>
<td>(10mm)</td>
<td>(6mm)</td>
</tr>
<tr>
<td>31104 7</td>
<td>84P</td>
<td></td>
<td></td>
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</tbody>
</table>

### ALWAYS WEAR OSHA APPROVED SAFETY GOGGLES
All Dividers’ legs and Calipers’ legs are forged of special caliper steel. Hardened and tempered bow springs and fulcrum spools assure uniform tension without side play. Adjusting screw has a self-seating washer and nut to permit quick and positive adjustment. Dividers have hardened points. Calipers have hardened measurement faces and meet government specifications GGG-C-95.

**Scribers/Dividers**

**THREE POINT SCRIBER**
- Finest quality machinist’s scriber
- Aluminum knurled body, with three interchangeable threaded steel points: short straight, short bent and long bent

**UPC NO.**
- 31400 0 80A

**FIXED TWO POINT SCRIBER**
- Hardened and ground steel needle points are fixed to a knurled body
- Has one straight point and one 90° bent point

**UPC NO.**
- 31090 3 80
- 31091 0 80C Individually carded

**TWO POINT SCRIBER**
- This scriber consists of short straight and short 90° bent steel removeable points which thread into knurled body

**UPC NO.**
- 31403 1 80B

**SINGLE POINT SCRIBER**
- Hardened tempered steel point

**UPC NO.**
- 31106 1 85

**FLAT LEG DIVIDERS**
- Legs are forged of special caliper steel
- Hardened and tempered bow springs
- Hardened points

**UPC NO.**
- A
- B
- 450-4 1/16" (2mm) 4-1/2" (114mm)
- 450-6 3/16" (5mm) 6-1/8" (156mm)
- 450-8 1/8" (3mm) 8" (203mm)
- 450-10 1/8" (3mm) 10" (254mm)
- 450-12 1/8" (3mm) 12-3/4" (324mm)

**OUTSIDE CALIPERS**
- Legs are forged of special caliper steel
- Hardened and tempered bow springs
- Hardened measurement points

**UPC NO.**
- A
- B
- 452-4 4-3/16" (106mm) 4-3/16" (106mm)
- 452-6 6-1/8" (156mm) 6-5/16" (160mm)
- 452-8 8" (203mm) 8-1/16" (221mm)
- 452-10 10" (254mm) 10-1/16" (271mm)
- 452-12 12-3/4" (324mm) 12-1/4" (311mm)

**INSIDE CALIPERS**
- Legs are forged of special caliper steel
- Hardened and tempered bow springs
- Hardened measurement points

**UPC NO.**
- A
- B
- 454-4 4" (102mm) 4-7/16" (113mm)
- 454-6 6-1/8" (156mm) 6-5/16" (160mm)
- 454-8 8" (203mm) 8-1/16" (221mm)
- 454-10 10" (254mm) 10-11/16" (271mm)
- 454-12 12-5/16" (313mm) 12" (305mm)
MACHINIST TOOLS

Tap Wrenches

General’s Tap Wrenches provide good leverage in tight spaces. These top quality tools are designed to give the user the reach and leverage needed for accurate tapping. The T-handle tap wrenches are for holding taps, drills, reamers and other small tools to be turned by hand.

REVERSIBLE RATCHET TAP WRENCHES

- Ratchet can be set for right- or left-hand operation or locked for non-ratchet use
- Self-centering hardened steel jaws and knurled chuck sleeve provide positive grip on taps, reamers and small tools
- Sliding T-handle for fitting into tight spaces with operator leverage
- No. 161R conforms to government specifications GGG-W-680a

<table>
<thead>
<tr>
<th>UPC</th>
<th>NO.</th>
<th>TAP CAPACITY</th>
<th>LENGTH</th>
</tr>
</thead>
<tbody>
<tr>
<td>31200 6</td>
<td>160R</td>
<td>No. 0 to No. 8 (1.6 to 4mm)</td>
<td>2-3/4” (70mm)</td>
</tr>
<tr>
<td>31203 7</td>
<td>161R</td>
<td>No. 0 to 1/4” (1.6 to 6.3mm)</td>
<td>3-1/2” (88mm)</td>
</tr>
<tr>
<td>31209 9</td>
<td>162R</td>
<td>No. 12 to 1/2” (6 to 12mm)</td>
<td>4-1/4” (106mm)</td>
</tr>
</tbody>
</table>

PROFESSIONAL REVERSIBLE RATCHETING TAP WRENCH SET

- The No. 715P Plastic Reference Table is the essential reference table for tool makers, machinists and mechanics
- The front has machine screw size tap drill chart for recommended 75% depth thread
- The back has decimal equivalents table in 64ths from 1/64” to 63/64”
- Packaged in a sturdy, fitted foam lined plastic case designed specifically for this set

<table>
<thead>
<tr>
<th>UPC</th>
<th>NO.</th>
<th>TAP CAPACITY (NOS. &amp; INCHES)</th>
<th>LENGTH</th>
</tr>
</thead>
<tbody>
<tr>
<td>01650 8</td>
<td>165</td>
<td>---</td>
<td>---</td>
</tr>
</tbody>
</table>

PLAIN TAP WRENCHES

- Self-centering hardened steel jaws and knurled chuck sleeve
- No. 163 has rigid T-handle
- Nos. 164 and 166 have sliding T-handle for fitting into tight spaces with greater leverage

<table>
<thead>
<tr>
<th>UPC</th>
<th>NO.</th>
<th>TAP CAPACITY</th>
<th>LENGTH</th>
</tr>
</thead>
<tbody>
<tr>
<td>31212 9</td>
<td>163</td>
<td>No. 0 to No. 8 (1.6 to 4mm)</td>
<td>2-1/4” (57mm)</td>
</tr>
<tr>
<td>31215 0</td>
<td>164</td>
<td>No. 0 to 1/4” (1.6 to 6.3mm)</td>
<td>2-3/4” (70mm)</td>
</tr>
<tr>
<td>31218 1</td>
<td>166</td>
<td>No. 12 to 1/2” (6 to 12mm)</td>
<td>3-3/4” (95mm)</td>
</tr>
</tbody>
</table>

PROFESSIONAL PLAIN TAP WRENCH SET

- The No. 715P Plastic Reference Table is the essential reference table for tool makers, machinists and mechanics
- The front has machine screw size tap drill chart for recommended 75% depth thread
- The back has decimal equivalents table in 64ths from 1/64” to 63/64”
- Packaged in a sturdy, fitted foam lined plastic case designed specifically for this set

<table>
<thead>
<tr>
<th>UPC</th>
<th>NO.</th>
<th>TAP CAPACITY</th>
<th>LENGTH</th>
</tr>
</thead>
<tbody>
<tr>
<td>01670 6</td>
<td>167</td>
<td>---</td>
<td>---</td>
</tr>
</tbody>
</table>
Telescoping Gages are used for quick and accurate measurements of inside diameters of holes and widths of slots from which micrometer measurements are taken. Thread Repair Files restore damaged external threads on studs, bolts, screws, plumbing pipes and pipe fittings.

**NUT SPLITTER**
- Here is a real timesaver for the removal of frozen, hard to remove rusted nuts
- Only 4-3/4" long, this compact tool will split nuts up to 1/2" automotive series (3/4" or 19mm across flats)
- Standard 3/4" driving hex head for use with wrenches or sockets
- Angled body for getting into hard-to-reach work areas
- Replaceable hardened steel chisel point can be reversed to achieve best cutting angle
- Made of high-grade heat treated forged steel for durability. Plated and black oxide finishes to prevent rust

**THREAD REPAIR FILES**
- These indispensable files restore damaged external threads on studs, bolts, screws, plumbing pipe and pipe fittings
- Four different high carbon steel files are available. Each file provides 4 to 8 different thread pitches
- Restores rusted or corroded fasteners
- Doubles as a screw pitch gage
- Black oxide to prevent rust

**TELESCOPING GAGE SET**
- These gages are used for quick and accurate measurements of inside diameters of holes and widths of slots from which micrometer measurements are taken
- Both gaging ends are heat treated tool steel and ground to a radius for measuring the smallest hole the gage will enter
- Self-centering action ensures accuracy
- Long handeled design provides improved reach in deep holes and slots
- Satin chrome finish
- Swivel lock at base of handle
- Set of Six, AA-E, listed below, packed in vinyl case

**EDGE FINDERS**
- General’s edge finders accurately locate working edges, shoulders, grooves, centerpoints and scribed lines
- Time-saving positioning tools for jig borers, milling and other machines
- Hardened and centerless ground precision tolerance
- All sizes 3" long
General's Industrial Quality Steel Rules and Economy Steel Rules are precision made with etched fine black graduations for easy reading and long life. The two types of rules available are flex and rigid in satin or polished finishes.

### STEEL RULES:
**ULTRATEST®, INDUSTRIAL & ECONOMY**

<table>
<thead>
<tr>
<th>UPC CODE</th>
<th>ITEM NO</th>
<th>SIZE</th>
<th>GRAD TYPE</th>
<th>GRADUATION SIDE 1</th>
<th>GRADUATION SIDE 2</th>
<th>WIDTH</th>
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<tr>
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</tbody>
</table>

#### ULTRATEST® STEEL RULES

**6” CHROME PLATED HARDENED STEEL RULES**

<table>
<thead>
<tr>
<th>UPC CODE</th>
<th>ITEM NO</th>
<th>SIZE</th>
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<th>GRADUATION SIDE 2</th>
<th>WIDTH</th>
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</thead>
<tbody>
<tr>
<td>39021 9</td>
<td>CF640MM</td>
<td>150mm Flex</td>
<td>–</td>
<td>mm, .5mm</td>
<td>mm, .5mm</td>
<td>1/2&quot;</td>
</tr>
<tr>
<td>33020 8</td>
<td>CF645</td>
<td>6” Flex</td>
<td>5R</td>
<td>10, 100</td>
<td>32, 64</td>
<td>1/2&quot;</td>
</tr>
<tr>
<td>33035 2</td>
<td>CF648MD</td>
<td>6” Flex</td>
<td>–</td>
<td>10, 100</td>
<td>mm, .5mm</td>
<td>1/2&quot;</td>
</tr>
<tr>
<td>33040 6</td>
<td>CF661</td>
<td>6” Rigid</td>
<td>4R</td>
<td>8, 16 w/32nd End Grads</td>
<td>32, 64</td>
<td>3/4&quot;</td>
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<tr>
<td>33050 5</td>
<td>CF664</td>
<td>6” Rigid</td>
<td>4R</td>
<td>8, 16</td>
<td>32, 64</td>
<td>3/4&quot;</td>
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<tr>
<td>33065 9</td>
<td>CF667ME</td>
<td>6” Rigid</td>
<td>–</td>
<td>32, 64</td>
<td>mm, .5mm</td>
<td>3/4&quot;</td>
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**12” CHROME PLATED HARDENED STEEL RULES**

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<tbody>
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<td>CF1245</td>
<td>12” Flex</td>
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<td>10, 100</td>
<td>32, 64</td>
<td>1/2&quot;</td>
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<tr>
<td>33090 1</td>
<td>CF1246</td>
<td>12” Flex</td>
<td>16R</td>
<td>32, 64</td>
<td>50, 100</td>
<td>1/2&quot;</td>
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<tr>
<td>33095 6</td>
<td>CF1247ME</td>
<td>12” Flex</td>
<td>–</td>
<td>32, 64</td>
<td>mm, .5mm</td>
<td>1/2&quot;</td>
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<tr>
<td>33100 7</td>
<td>CF1248MD</td>
<td>12” Flex</td>
<td>–</td>
<td>10, 100</td>
<td>mm, .5mm</td>
<td>1/2&quot;</td>
</tr>
<tr>
<td>33110 6</td>
<td>CF1254</td>
<td>12” Rigid</td>
<td>4R</td>
<td>8, 16</td>
<td>32, 64</td>
<td>1”</td>
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</table>

**18” CHROME PLATED HARDENED STEEL RULE**

<table>
<thead>
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<th>UPC CODE</th>
<th>ITEM NO</th>
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<tbody>
<tr>
<td>33140 3</td>
<td>CF1845</td>
<td>18” Flex</td>
<td>5R</td>
<td>10, 100</td>
<td>32, 64</td>
<td>3/4&quot;</td>
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**24” CHROME PLATED HARDENED STEEL RULE**

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<th>GRAD TYPE</th>
<th>GRADUATION SIDE 1</th>
<th>GRADUATION SIDE 2</th>
<th>WIDTH</th>
</tr>
</thead>
<tbody>
<tr>
<td>33190 8</td>
<td>CF2445</td>
<td>24” Flex</td>
<td>5R</td>
<td>10, 100</td>
<td>32, 64</td>
<td>3/4&quot;</td>
</tr>
</tbody>
</table>

#### INDUSTRIAL STEEL RULES

**6” PRECISION STAINLESS STEEL RULES**

<table>
<thead>
<tr>
<th>UPC CODE</th>
<th>ITEM NO</th>
<th>SIZE</th>
<th>GRAD TYPE</th>
<th>GRADUATION SIDE 1</th>
<th>GRADUATION SIDE 2</th>
<th>WIDTH</th>
</tr>
</thead>
<tbody>
<tr>
<td>32096 4</td>
<td>616</td>
<td>6” Flex</td>
<td>5R</td>
<td>10, 100</td>
<td>32, 64</td>
<td>15/32&quot;</td>
</tr>
<tr>
<td>32108 4</td>
<td>634</td>
<td>6” Flex</td>
<td>4R</td>
<td>8, 16</td>
<td>32, 64</td>
<td>15/32&quot;</td>
</tr>
<tr>
<td>32114 4</td>
<td>676</td>
<td>6” Rigid</td>
<td>4R</td>
<td>8, 16</td>
<td>32, 64</td>
<td>3/4&quot;</td>
</tr>
<tr>
<td>32115 4</td>
<td>678MED</td>
<td>6” Rigid</td>
<td>–</td>
<td>mm, .5mm</td>
<td>10, 20, 50, 100</td>
<td>3/4&quot;</td>
</tr>
</tbody>
</table>

**12” PRECISION STAINLESS STEEL RULES**

<table>
<thead>
<tr>
<th>UPC CODE</th>
<th>ITEM NO</th>
<th>SIZE</th>
<th>GRAD TYPE</th>
<th>GRADUATION SIDE 1</th>
<th>GRADUATION SIDE 2</th>
<th>WIDTH</th>
</tr>
</thead>
<tbody>
<tr>
<td>32162 6</td>
<td>1201ME</td>
<td>12” Flex</td>
<td>–</td>
<td>16, 32, 64, mm, .5mm</td>
<td>8, 16, 32, 64</td>
<td>7/8&quot;</td>
</tr>
<tr>
<td>32171 8</td>
<td>1210</td>
<td>12” Flex Center Finding</td>
<td>16, 32</td>
<td>32, 64</td>
<td>1&quot;</td>
<td></td>
</tr>
<tr>
<td>32175 9</td>
<td>1216</td>
<td>12” Flex</td>
<td>5R</td>
<td>10, 100</td>
<td>32, 64</td>
<td>15/32&quot;</td>
</tr>
<tr>
<td>32180 0</td>
<td>1251</td>
<td>12” Flex</td>
<td>Model RR</td>
<td>HO, 5, 0, Gage</td>
<td>N Gg., mm, 64 Dec Equiv.</td>
<td>1”</td>
</tr>
<tr>
<td>32186 0</td>
<td>1276</td>
<td>12” Flex</td>
<td>4R</td>
<td>8, 16</td>
<td>32, 64</td>
<td>1”</td>
</tr>
</tbody>
</table>

**6” AND 12” PRECISION SATIN CHROME STAINLESS STEEL RULES**

<table>
<thead>
<tr>
<th>UPC CODE</th>
<th>ITEM NO</th>
<th>SIZE</th>
<th>GRAD TYPE</th>
<th>GRADUATION SIDE 1</th>
<th>GRADUATION SIDE 2</th>
<th>WIDTH</th>
</tr>
</thead>
<tbody>
<tr>
<td>32123 7</td>
<td>CF616</td>
<td>6” Flex</td>
<td>5R</td>
<td>10, 100</td>
<td>32, 64</td>
<td>15/32&quot;</td>
</tr>
<tr>
<td>32141 1</td>
<td>CF676</td>
<td>6” Flex</td>
<td>4R</td>
<td>8, 16</td>
<td>32, 64</td>
<td>3/4&quot;</td>
</tr>
<tr>
<td>32147 3</td>
<td>CF678MED</td>
<td>6” Flex</td>
<td>–</td>
<td>mm, .5mm</td>
<td>10, 20, 50, 100, 16, 32, 64</td>
<td>3/4&quot;</td>
</tr>
<tr>
<td>32150 3</td>
<td>CF1216</td>
<td>12” Flex</td>
<td>5R</td>
<td>10, 100</td>
<td>32, 64</td>
<td>15/32&quot;</td>
</tr>
<tr>
<td>32153 4</td>
<td>CF1227ME</td>
<td>12” Rigid</td>
<td>–</td>
<td>32, 64</td>
<td>mm, .5mm</td>
<td>1”</td>
</tr>
<tr>
<td>32159 8</td>
<td>CF1276</td>
<td>12” Rigid</td>
<td>4R</td>
<td>8, 16</td>
<td>32, 64</td>
<td>1”</td>
</tr>
</tbody>
</table>

#### ECONOMY STEEL RULES

**6” PRECISION STAINLESS STEEL RULES**

<table>
<thead>
<tr>
<th>UPC CODE</th>
<th>ITEM NO</th>
<th>SIZE</th>
<th>GRAD TYPE</th>
<th>GRADUATION SIDE 1</th>
<th>GRADUATION SIDE 2</th>
<th>WIDTH</th>
</tr>
</thead>
<tbody>
<tr>
<td>32036 0</td>
<td>300/1*</td>
<td>6” Flex</td>
<td>Dec. Equiv.</td>
<td>32, 64</td>
<td>15/32&quot;</td>
<td></td>
</tr>
<tr>
<td>32041 4</td>
<td>300MM*</td>
<td>150mm Flex</td>
<td>mm, .5mm</td>
<td>15/32&quot;</td>
<td></td>
<td></td>
</tr>
<tr>
<td>32042 1</td>
<td>300ME*</td>
<td>6” Flex (150 mm)</td>
<td>mm, 64</td>
<td>Metric Equiv.</td>
<td>15/32&quot;</td>
<td></td>
</tr>
<tr>
<td>32046 9</td>
<td>3017*</td>
<td>6” Flex</td>
<td>32, 64</td>
<td>1/4&quot;</td>
<td></td>
<td></td>
</tr>
<tr>
<td>32049 0</td>
<td>301ME</td>
<td>6” Flex</td>
<td>mm, 16</td>
<td>1/4&quot;</td>
<td></td>
<td></td>
</tr>
<tr>
<td>32060 5</td>
<td>305ME</td>
<td>6” Flex</td>
<td>mm, 16</td>
<td>15/32&quot;</td>
<td></td>
<td></td>
</tr>
<tr>
<td>32063 6</td>
<td>307</td>
<td>6” Flex</td>
<td>8, 16 w/32nd End Grads</td>
<td>3/4&quot;</td>
<td></td>
<td></td>
</tr>
<tr>
<td>32066 3</td>
<td>308</td>
<td>6” Flex</td>
<td>Dec. Equiv.</td>
<td>3/4&quot;</td>
<td></td>
<td></td>
</tr>
<tr>
<td>32072 8</td>
<td>310</td>
<td>6” Flex</td>
<td>32, 64</td>
<td>B&amp;S Wire Gg.</td>
<td>3/4&quot;</td>
<td></td>
</tr>
<tr>
<td>32075 9</td>
<td>311ME</td>
<td>6” Flex</td>
<td>mm-inch 16, 32</td>
<td>Comparison</td>
<td>3/4&quot;</td>
<td></td>
</tr>
<tr>
<td>32093 3</td>
<td>CF3006MD*</td>
<td>6” Flex</td>
<td>10, 50</td>
<td>mm, .5mm</td>
<td>15/32&quot;</td>
<td></td>
</tr>
</tbody>
</table>

*Furnished with pocket clip
ULTRATEST® Steel Rules are manufactured by a special process to meet or exceed federal specification GGG-R-791f for accuracy. They have ultra-fine black graduations against a hard satin chrome finish for easy reading and long life. All Ultratest® Rules are supplied with a plastic sleeve.

**ULTRATEST® 150mm FLEX STEEL RULE**
- Graduations - mm, .5mm, for both sides
- Ultra fine black graduations
- Hard satin chrome finish
- Length is 150mm long
- Width is 13mm
- Comes in a plastic sleeve

**UPC NO.**
39021 9 CF640mm

**ULTRATEST® 6" FLEX STEEL RULE**
- 5R Graduation - 32nds, 64ths; 10ths, 100ths
- Ultra fine black graduations
- Hard satin chrome finish
- Length is 6” long
- Width is 1/2”
- Comes in a plastic sleeve

**UPC NO.**
33020 8 CF645

**ULTRATEST® 6”/150mm FLEX STEEL RULE**
- Graduation - 10ths, 100ths; mm, .5mm
- Ultra fine black graduations
- Hard satin chrome finish
- Length is 6” (150mm) long
- Width is 1/2” (13mm)
- Comes in a plastic sleeve

**UPC NO.**
33035 2 CF649MD

---

“Precision, Specialty and Innovation . . . Since 1922”

T-55
ULTRATEST® Steel Rules are manufactured by a special process to meet or exceed federal specification GGG-R-791f for accuracy. They have ultra-fine black graduations against a hard satin chrome finish for easy reading and long life. All Ultratest® Rules are supplied with a plastic sleeve.

ULTRATEST® 6" RIGID STEEL RULE
- 4R Graduation - 8ths, 16ths; 32nds, 64ths
- Ultra fine black graduations
- Hard satin chrome finish
- Length is 6" long
- Width is 3/4"
- Comes in a plastic sleeve

UPC No.: 33040 6 CF661

ULTRATEST® 6" RIGID STEEL RULE
- 4R Graduation - 8ths, 16ths; 32nds, 64ths
- Ultra fine black graduations
- Hard satin chrome finish
- Length is 6" long
- Width is 3/4"
- Comes in a plastic sleeve

UPC No.: 33050 5 CF664

ULTRATEST® 6"/150mm RIGID STEEL RULE
- Graduation - 32nds, 64ths; mm, .5mm
- Ultra fine black graduations
- Hard satin chrome finish
- Length is 6" (150mm) long
- Width is 3/4" (19mm)
- Comes in a plastic sleeve

UPC No.: 33065 9 CF667ME

ULTRATEST® 12" FLEX STEEL RULE
- 5R Graduation - 32nds, 64ths; 10ths, 100ths
- Ultra fine black graduations
  - Hard satin chrome finish
  - Length is 12" long
  - Width is 1/2"
- Comes in a plastic sleeve

UPC No.: 33085 7 CF1245

ULTRATEST® 12" FLEX STEEL RULE
- 16R Graduation - 32nds, 64ths; 50ths, 100ths
- Ultra fine black graduations
- Hard satin chrome finish
  - Length is 12" long
  - Width is 1/2"
- Comes in a plastic sleeve

UPC No.: 33090 1 CF1246
TYPE OF GRADUATIONS:
4R Graduation - 8ths, 16ths, 32nds, 64ths.
5R Graduation - 32nds, 64ths, 10ths, 100ths.
16R Graduation - 32nds, 64ths, 50ths, 100ths.
Metric English - 32nds, 64ths, 0.5mm, mm.

ULTRATEST® 12”/300mm FLEX STEEL RULE
- Graduation - 32nds, 64ths; mm, .5mm
- Ultra fine black graduations
- Hard satin chrome finish
- Length is 12” (300mm) long
- Width is 1/2” (13mm)
- Comes in a plastic sleeve

UPC NO. 33095 6 CF1247ME

ULTRATEST® 12”/300mm FLEX STEEL RULE
- Graduation - 10ths, 100ths; mm, .5mm
- Ultra fine black graduations
- Hard satin chrome finish
- Length is 12” (300mm) long
- Width is 1/2” (13mm)
- Comes in a plastic sleeve

UPC NO. 33040 6 CF1249MD

ULTRATEST® 12” RIGID STEEL RULE
- 4R Graduation - 8ths, 16ths; 32nds, 64ths
- Ultra fine black graduations
- Hard satin chrome finish
- Length is 12” long
- Width is 1”
- Comes in a plastic sleeve

UPC NO. 33110 6 CF1264

ULTRATEST® 18” RIGID STEEL RULE
- 5R Graduation - 32nds, 64ths; 10ths, 100ths
- Ultra fine black graduations
- Hard satin chrome finish
- Length is 18” long
- Width is 3/4”
- Comes in a plastic sleeve

UPC NO. 33140 3 CF1845

ULTRATEST® 24” FLEX RULE
- 5R Graduation - 32nds, 64ths; 10ths, 100ths
- Ultra fine black graduations
- Hard satin chrome finish
- Length is 24” long
- Width is 3/4”
- Comes in a plastic sleeve

UPC NO. 39190 8 CF2445
Industrial Precision Rules

General's Industrial Steel Rules and Economy Steel Rules are precision made with etched fine black graduations for easy reading and long life.

The two finishes available are polished stainless steel or satin chrome.

**PRECISION 6" FLEX STEEL RULE**
- 5R Graduation - 32nds, 64ths; 10ths, 100ths
- Ultra fine black graduations
- Polished Stainless Steel finish
- Length is 6" long
- Width is 15/32"

UPC No. 32096 4 616

**PRECISION 6" FLEX STEEL RULE**
- 4R Graduation - 8ths, 16ths; 32nds, 64ths
- Ultra fine black etched graduations
- Polished Stainless Steel finish
- Length is 6" long
- Width is 15/32"

UPC No. 32108 4 634

**PRECISION 6" RIGID STEEL RULE**
- 4R Graduation - 8ths, 16ths; 32nds, 64ths
- Ultra fine black graduations
- Polished Stainless Steel finish
- Length is 6" long
- Width is 3/4"

UPC No. 32111 4 676

**PRECISION 6"/150mm RIGID STEEL RULE**
- 4R Graduation - 8ths, 16ths; 32nds, 64ths,
  Side 2 - 10, 20, 50, 100; mm, .5mm
- Ultra fine black graduations
- Polished Stainless Steel finish
- Length is 6" (150mm) long
- Width is 3/4" (19mm)

UPC No. 32114 5 678MED

**PRECISION 300mm/12" FLEX STEEL RULE**
- Graduation - .5mm, 32nds; 8ths,16ths
- Ultra fine black graduations
- Polished Stainless Steel finish
- Length is 330mm (13") overall
- Width is 22mm (7/8") • Hanging hole

UPC No. 32162 6 1201ME

**PRECISION 12" FLEX STEEL RULE**
- Center finding graduation - 16ths, 32nds, 32nds, 64ths
- Ultra fine black graduations
- Polished Stainless Steel finish
- Width is 15/32"

UPC No. 32171 8 1210
TYPE OF GRADUATIONS:
4R Graduation - 8ths, 16ths, 32nds, 64ths.
5R Graduation - 32nds, 64ths, 10ths, 100ths.
16R Graduation - 32nds, 64ths, 50ths, 100ths.
Metric English - 32nds, 64ths, 0.5mm, mm.

PRECISION 12" FLEX STEEL RULE
- 5R Graduation - 32nds, 64ths; 10ths, 100ths
- Ultra fine black graduations
- Polished Stainless Steel finish
- Length is 12" long
- Width is 15/32"

UPC NO. 32174 9 1216

PRECISION 12" FLEX STEEL RULE
- Model RR Graduation - HO, S, O Gage; N Gg, mm, 64ths Dec Equiv
- Ultra fine black graduations
- Polished Stainless Steel finish
- Length is 12" long
- Width is 1"

UPC NO. 32180 0 1251

PRECISION 12" RIGID STEEL RULE
- 4R Graduation - 8ths, 16ths; 32nds, 64ths
- Ultra fine black graduations
- Polished Stainless Steel finish
- Length is 12" long
- Width is 1"

UPC NO. 31286 0 1276

PRECISION 6" FLEX STEEL RULE
- 5R Graduation - 32nds, 64ths; 10ths, 100ths
- Ultra fine black graduations
- Satin chrome finish
- Length is 6" long
- Width is 15/32"

UPC NO. 32123 7 CF616

PRECISION 6" FLEX RULE
- 4R Graduation - 8ths, 16ths; 32nds, 64ths
- Ultra fine black graduations
- Satin chrome finish
- Length is 6" long
- Width is 3/4"

UPC NO. 32141 1 CF676 Carded

“Precision, Specialty and Innovation . . . Since 1922”  T-59
General's Industrial Steel Rules and Economy Steel Rules are precision made with etched fine black graduations for easy reading and long life. The two finishes available are polished stainless steel or satin chrome.

<table>
<thead>
<tr>
<th>Model</th>
<th>Description</th>
<th>Graduation Details</th>
<th>Length</th>
<th>Width</th>
<th>UPC No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>CF1216</td>
<td>Precision 12&quot; Flex Steel Rule</td>
<td>32nds/64ths, 10ths/100ths</td>
<td>12&quot;</td>
<td>15/32&quot;</td>
<td>32150 3</td>
</tr>
<tr>
<td>CF1227ME</td>
<td>Precision 12&quot; Rigid Steel Rule</td>
<td>5R Graduation, 32nds, 64ths, 10ths, 100ths</td>
<td>12&quot;</td>
<td>1&quot;</td>
<td>32153 4</td>
</tr>
<tr>
<td>CF1276</td>
<td>Precision 12&quot; Rigid Steel Rule</td>
<td>4R Graduation, 8ths, 16ths, 32nds, 64ths</td>
<td>12&quot;</td>
<td>3/4&quot;</td>
<td>32159 8</td>
</tr>
<tr>
<td>CF678MED</td>
<td>Precision 150mm/6&quot; Flex Steel Rule</td>
<td>32nds/64ths, 10ths, 20ths, 50ths, 100ths, 16ths, 64ths</td>
<td>150mm</td>
<td>19mm</td>
<td>32147 3</td>
</tr>
<tr>
<td>CF300/1</td>
<td>Precision 150mm/6&quot; Flex Steel Rule</td>
<td>32nds/64ths, Dec. Equiv</td>
<td>150mm</td>
<td>12mm</td>
<td>32036 0</td>
</tr>
<tr>
<td>CF300MM</td>
<td>Precision 150mm Flex Steel Rule</td>
<td>32nds/64ths, 10ths, 20ths, 50ths, 100ths, 16ths, 64ths</td>
<td>150mm</td>
<td>12mm</td>
<td>32041 4</td>
</tr>
</tbody>
</table>
TYPE OF GRADUATIONS:
4R Graduation - 8ths, 16ths, 32nds, 64ths.
5R Graduation - 32nds, 64ths, 10ths, 100ths.
16R Graduation - 32nds, 64ths, 50ths, 100ths.
Metric English - 32nds, 64ths, 0.5mm, mm.

PRECISION 150mm/6” FLEX STEEL RULE
- Graduation - mm, 64ths; Metric Equiv.
- Ultra fine black etched graduations
- Polished Stainless Steel finish
- Length is 150mm (6”) long
- Width is 12mm (15/32”)
- Convenient Pocket Clip

UPC NO. 32042 300ME

PRECISION 6” FLEX STEEL RULE
- Graduation - 32nds, 64ths
- Ultra fine black graduations
- Polished Stainless Steel finish
- Length is 6” long
- Width is 1/4”
- Convenient Pocket Clip

UPC NO. 32046 301/1

PRECISION 150mm/6” FLEX STEEL RULE
- Graduation - mm, 16ths
- Ultra fine black graduations
- Polished Stainless Steel finish
- Length is 150mm (6”) long
- Width is 6mm (1/4”)

UPC NO. 32049 301ME

PRECISION 150mm/6” FLEX STEEL RULE
- Graduation - mm, 16ths
- Ultra fine black etched graduations
- Polished Stainless Steel finish
- Length is 150mm (6”) long
- Width is 12mm (15/32”)

UPC NO. 32060 305ME

PRECISION 6” FLEX STEEL RULE
- Graduation - 8ths, 16ths w/32nd End Grads.
- Ultra fine black etched graduations
- Polished Stainless Steel finish
- Length is 6” long
- Width is 3/4”

UPC NO. 32063 307 Carded
General’s ULTRA RULE™ Precision Marking Rule looks like an ordinary ruler. Look closer and you will see micro-fine marking holes and slots at every scale position to instantly locate a sharp pencil point or scriber exactly where you want it. You can effortlessly place your mark precisely on target with zero uncertainty and no eye strain.
General's Feeler Gages are used for adjusting and gaging spark plugs, distributors points, valve clearances and measuring spaces between parts. All of the feeler gages are made of the finest high grade precision gage steel. Each leaf is etched with size numbers in the thousandths of an inch, as well as corresponding millimeter sized, for inch identification.

**PRECISION FEELER GAGES**
- Made of the finest high grade precision gage steel
- Each leaf is etched with size numbers in the thousandths for quick identification
- Knurled locknut holds the leaves in desired position
- Conforms to government specifications GG-G-17b
- Special holder prevents edges from damage
- Leaves include the following sizes: .0015, .002, .0025, .003, .004, .005, .006, .007, .008, .009, .010, .011, .012, .013, .014, .015, .016, .017, .018, .019, .020, .021, .022, .023, .024, and .025"

**PRECISION 26 STRAIGHT LEAF FEELER GAGE**
- 3" (75mm) leaves are 1/2" (12mm) wide

<table>
<thead>
<tr>
<th>UPC</th>
<th>NO.</th>
<th>LEAVES</th>
<th>SIZES</th>
</tr>
</thead>
<tbody>
<tr>
<td>31306</td>
<td>226</td>
<td>26</td>
<td>.0015&quot; to .025&quot;</td>
</tr>
</tbody>
</table>

**PRECISION 26 TAPER LEAF FEELER GAGE**
- 3" (75mm) leaves taper from 1/2" (12mm) to just 1/4" (6.5mm) wide for working in confined spaces

<table>
<thead>
<tr>
<th>UPC</th>
<th>NO.</th>
<th>LEAVES</th>
<th>SIZES</th>
</tr>
</thead>
<tbody>
<tr>
<td>31309</td>
<td>226T</td>
<td>26</td>
<td>.0015&quot; to .025&quot;</td>
</tr>
</tbody>
</table>

**26-LEAF ECONOMY GAGE**
- General's best selling feeler gage provides precision accuracy at a reasonable price
- 3" leaves include the following sizes: .0015, .002, .0025, .003, .004, .005, .006, .007, .008, .009, .010, .011, .012, .013, .014, .015, .016, .017, .018, .019, .020, .021, .022, .023, .024, and .025"

<table>
<thead>
<tr>
<th>UPC</th>
<th>NO.</th>
<th>LEAVES</th>
<th>SIZES</th>
</tr>
</thead>
<tbody>
<tr>
<td>31311</td>
<td>230</td>
<td>26</td>
<td>.0015&quot; to .025&quot;</td>
</tr>
</tbody>
</table>

**15-LEAF ECONOMY GAGE WITH 3" (75MM) LEAVES**
- Gage includes .002, .003, .004, .005, .006, .007, .008, .010, .011, .012, .013, .014, .015, .020, and .025"
- Metric range is from .051 to .635mm

<table>
<thead>
<tr>
<th>UPC</th>
<th>NO.</th>
<th>LEAVES</th>
<th>SIZES</th>
</tr>
</thead>
<tbody>
<tr>
<td>31313</td>
<td>231</td>
<td>15</td>
<td>.002&quot; to .025&quot;</td>
</tr>
</tbody>
</table>

**15-LEAF ECONOMY GAGE WITH 6" (150MM) LEAVES**
- Longer leaves allow accurate measuring in hard-to-reach places
- Gage includes .002, .003, .004, .005, .006, .007, .008, .010, .011, .012, .013, .014, .015, .020, and .025"
- Metric range is from .051 to .635mm

<table>
<thead>
<tr>
<th>UPC</th>
<th>NO.</th>
<th>LEAVES</th>
<th>SIZES</th>
</tr>
</thead>
<tbody>
<tr>
<td>31316</td>
<td>232</td>
<td>15</td>
<td>.051 to .635mm</td>
</tr>
</tbody>
</table>

"Precision, Specialty and Innovation . . . Since 1922"
MACHINIST TOOLS

Precision Squares and Gages

General's Precision Squares are used for checking internal and external 90° angles. Screw Pitch Gages are notched for measuring inside threads of small holes and nuts as well as external threads.

Center Gages improve efficiency and speed up set-up time for lathe thread cutting. Wiggler/Center Finders locate spindle centers and working points on drill presses, milling and other machines.

SCREW PITCH GAGES

- These finely crafted measuring devices are used for gaging V, American National or U.S. standard 60° threads
- Gages are notched for measuring inside threads of small holes and nuts as well as external threads

<table>
<thead>
<tr>
<th>UPC</th>
<th>NO.</th>
<th>NO. OF PITCHES</th>
<th>SIZES</th>
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</thead>
<tbody>
<tr>
<td>31321</td>
<td>8</td>
<td>51</td>
<td>4 to 84</td>
</tr>
<tr>
<td>31326</td>
<td>3</td>
<td>22</td>
<td>.35 to 6.0mm</td>
</tr>
</tbody>
</table>

WIGGLER/CENTER FINDER SET

- The snap-in ball and socket wiggler is essential for precise setups in machine shops
- Locates spindle centers and working points on drill presses, milling and other machines
- Four interchangeable point attachments snap into adjustable spring tension clutch holder

<table>
<thead>
<tr>
<th>UPC</th>
<th>NO.</th>
<th>Set includes</th>
<th>snap-in holder, needle point, disk point, ball shaft and indicator shaft packed in a vinyl case</th>
</tr>
</thead>
<tbody>
<tr>
<td>31418</td>
<td>5</td>
<td>S389-4</td>
<td></td>
</tr>
</tbody>
</table>

PRECISION SQUARES

- Use where accurate right angles are essential
- For checking external and internal 90° angles. Beam is riveted to the fully ground and polished carbon steel blade
- Groove on inside corner of beam for clearance of dirt or burrs

<table>
<thead>
<tr>
<th>UPC</th>
<th>NO.</th>
<th>BLADE LENGTH</th>
<th>BEAM LENGTH</th>
</tr>
</thead>
<tbody>
<tr>
<td>31340</td>
<td>9</td>
<td>2-1/8&quot; (53mm)</td>
<td>1-3/8&quot; (35mm)</td>
</tr>
<tr>
<td>31343</td>
<td>0</td>
<td>3&quot; (75mm)</td>
<td>1-1/2&quot; (38mm)</td>
</tr>
<tr>
<td>31346</td>
<td>1</td>
<td>4-1/4&quot; (107mm)</td>
<td>2-3/8&quot; (60mm)</td>
</tr>
<tr>
<td>31349</td>
<td>2</td>
<td>6-1/4&quot; (147mm)</td>
<td>3-1/4&quot; (82mm)</td>
</tr>
<tr>
<td>02701</td>
<td>6</td>
<td>S270</td>
<td>Set all 4 Squares</td>
</tr>
</tbody>
</table>

CENTER GAGE

- General's center gage improves efficiency and speeds set-ups for lathe thread cutting
- The gage is graduated in 14ths, 20ths, 24ths, and 32nds of an inch for checking the number of threads per inch
- 60° angles for U.S. standard threads and double depth of American National thread
- Made of hardened spring tempered steel with protective satin chrome finish
- Notches have clearance slots

<table>
<thead>
<tr>
<th>UPC</th>
<th>NO.</th>
<th>CF778</th>
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<tbody>
<tr>
<td>35010</td>
<td>7</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

REFERENCE TABLE

- Essential tap drill and decimal equivalents reference table for toolmakers, machinists and mechanics
- Front has machine screw size tap drill chart for recommended 75% depth thread
- Back has decimal equivalents table in 64ths from 1/64" to 63/64"
- For National Fine and National Coarse, American Standard Pipe and metric threads
- Convenient 6" rule is graduated in 64ths

<table>
<thead>
<tr>
<th>UPC</th>
<th>NO.</th>
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<th></th>
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</thead>
<tbody>
<tr>
<td>35015</td>
<td>2</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
Wire Gages are used for gaging the thickness of non-ferrous wire and metals such as copper, brass and aluminum. Sheet Metal Gages are used for gaging uncoated sheet metal, plate iron and steel. Drill Gages and Hobby Gages are used to quickly and conveniently identify drill bit sizes.

**DRILL GAGES**
- General’s drill gages are used to quickly and conveniently identify drill bit sizes.
- Made of heat treated heavy gage steel, machined and ground to close tolerances.
- Hole sizes and decimal equivalents are permanently marked on the face.
- No. 13 is 3" x 1-1/8" wide. Nos. 14 and 15 are 6-1/2" x 2-1/2" wide.
- No. 14 and No. 15 conform to government specifications GG-G-86b.

**HOBBY DRILL GAGE**
- Made of heat treated heavy gage steel, machined and ground to close tolerances.
- Etched graduations are filled in black to give high contrast and will not wear off.
- Gage measures 2-3/8" x 6-3/4" (60 x 172mm) overall.
- Stainless steel will not rust.

**WIRE GAGE**
- American Standard wire gage 0 to 36.
- For gaging non-ferrous wire and metals such as copper, brass and aluminum.
- Decimal equivalents of each size are stamped on reverse side.
- Satin finished, heavy gage hardened and tempered steel.
- 3-1/4" diameter, 3/32" thick.

**SHEET METAL GAGE**
- Gage numbers are U.S. Standard 0 to 36.
- For gaging uncoated sheet metal, plate iron and steel.
- Decimal equivalents of each size are stamped on reverse side.
- Satin finished, heavy gage steel is hardened and tempered.
- 3-1/4" diameter, 3/32" thick.
The Multi-Use Rule and Gage performs five separate functions: drill point gage, bevel protractor, center finder, circle divider and tap and drill gage.

Steel Protractors are preferred by machinists, draftspeople, and mechanics for setting bevels, measuring and transferring angles.

**MULTI USE RULE AND GAGE**
- One of our most popular pocket tools performs five separate and distinct functions
- Drill point gage is used for checking 59° angle drill points
- Bevel protractor is used for measuring and laying out angles
- Center finder locates centers of shafts or circles
- Circle divider (up to nine equal parts) is used for dividing circles into sectors, regular polygons and polygrams
- Tap and drill table shows popular tap sizes with correct drill sizes for National form of thread
- Made of long-wearing stainless steel
- 4" rule has etched graduations in 64ths and millimeters

**UPC NO.** 220158 16ME

**QUICK CHECK SCREW GAGE**
- Quick way to identify machine screws, bolts, wood screws, standard size rivets and common cotter pin sizes up to 5/16" (8mm)
- 3" scale to check screw lengths
- Checker gives required drill size for corresponding tap size and proper drill size for like hole
- Threaded holes indicate threads per inch while unthreaded indicate size by number and fractions of an inch
- Durable engineering plastic

**UPC NO.** 350183 714

**STEEL PROTRACTORS**
- Preferred by machinists, draftspeople and mechanics for setting bevels, measuring and transferring angles
- Made of ground stainless steel for optimum accuracy
- Permanently etched graduations from 0 to 180° in opposite directions
- 3-3/8" x 2" head
- 6" adjustable protractor arm locks into desired position with knurled thumb nut

**UPC NO. STYLE**
- 220189 17 Square head
- 220219 CF17 Square head (Stain chrome finish)
- 220240 18 Round head
The Digital Protractor takes the guesswork out of measuring, marking, reading and transferring angles. The 6” Stainless Steel Protractor arm has a knurled locking nut. The large digital display can be inverted for easy instant reading. The Hold Function can be used to freeze measurements.

**DIGITAL PRECISION PROTRACTOR**
Take the guesswork out of measuring, marking, reading and transferring angles
- 6” (150mm) stainless steel protractor arm with knurled locking nut
- Large, easy-to-read display
- Absolute and Relative measurements
- Accuracy: 0.1°
- Resolution: 0.05°
- Range: 0.00° to 180.00°
- Display can be inverted for easy reading
- Hold function to freeze measurement
- Power Source: 1 “CR2032” (3.0V) battery (included)

UPC NO. STYLE
26008 6 1702
CR2032 replacement battery

**6” FLEXIBLE ULTRA-RULE PROTRACTOR**
- Graduation - Degrees, 1/2 Degrees, 32nds
- Ultra fine black graduations
- Micro-fine marking holes
- Polished stainless steel finish
- Width is 3-7/8”
- Comes with a No. 640 0.5mm mechanical pencil

UPC NO.
22165 0 30

**PROTRACTOR AND DEPTH GAGE**
- Made of stainless steel

UPC NO. STYLE
22027 1 19 Square head

“Precision, Specialty and Innovation . . . Since 1922”
Electronic Digital Calipers with high-contrast liquid crystal display provides easy, instant readings with no need for calculations. Microprocessor-based calipers convert from inch to metric and fractions at the push of a button. General's high quality, easy-to-read Electronic Digital Calipers make precise inside, outside, depth and step measurements.

**FRACTION+**

6", 8" & 12" STAINLESS STEEL DIGITAL FRACTIONAL CALIPERS

- 6" (153mm) range
- Heavy-duty stainless steel construction
- Convenient auto-off feature
- Three mode digital display: Decimal Inches, Fractions, Metric
- Inside, outside, depth & step measurements
- Accuracy: +/- 0.001", +/- 0.02mm
- Resolution: 0.0005", 0.01mm, 1/64"
- Power Source: 1 “SR44” (1.5V) silver oxide battery included

**FRACTION+**

6" CARBON FIBER DIGITAL FRACTIONAL CALIPER

- 6" (153mm) range
- Lightweight, non-marring carbon fiber composite
- Convenient auto-off feature
- Three mode digital display: Decimal Inches, Fractions, Metric
- Inside, outside, depth & step measurements
- Accuracy: +/- 0.005", +/- 0.2mm
- Resolution: 0.0005", 0.01mm, 1/64"
- Power Source: 1 "SR44" (1.5V) silver oxide battery included

**FRACTION+**

3" CARBON FIBER DIGITAL FRACTIONAL CALIPER

- 3" (76mm) range
- Lightweight non-marring carbon fiber composite
- Convenient auto-off feature
- Three mode digital display: Decimal Inches, Fractional and Metric
- Convenient pocket clip
- Accuracy: +/- 0.005" +/- 0.1mm
- Inside, outside, & step measurements
- Resolution: 0.0005", 0.01mm, 1/64"
- Power Source: 1 "SR54" (1.5V) silver oxide battery included

**UPC NO. RANGE**

- **01460 3** 146 0 - 6" (0 - 153mm)
- **01470 2** 147 0 - 6" (0 - 153mm)
- **01478 3** 1478 0 - 8" (0 - 203mm)
- **14712 7** 14712 0 - 12" (0 - 305mm)
- **01460 3** 146 0 - 6" (0 - 153mm)
- **01470 2** 147 0 - 6" (0 - 153mm)
- **01478 3** 1478 0 - 8" (0 - 203mm)
- **14712 7** 14712 0 - 12" (0 - 305mm)
- **01460 3** 146 0 - 6" (0 - 153mm)
- **01460 3** 146 0 - 6" (0 - 153mm)
- **01470 2** 147 0 - 6" (0 - 153mm)
- **01478 3** 1478 0 - 8" (0 - 203mm)
- **14712 7** 14712 0 - 12" (0 - 305mm)
- **01460 3** 146 0 - 6" (0 - 153mm)
- **01470 2** 147 0 - 6" (0 - 153mm)
- **01478 3** 1478 0 - 8" (0 - 203mm)
- **14712 7** 14712 0 - 12" (0 - 305mm)
General’s Micrometer is used to measure distances to the nearest ten thousandth of an inch. The measurement is usually expressed or written as a decimal. The types of micrometers commonly used are made so that the longest movement possible between the spindle and the anvil is 1 inch. This movement is called the “range”.

**6” DIAL CALIPER**
- Stainless steel construction for accuracy and durability
- Large, clear dial accurately reads to .001”
- Satin chrome scale with clearly etched tenths of inch graduations
- Covered rack ensures smooth operation by preventing dirt and chips from entering rack and gear mechanism
- Inside, outside, depth and step measurement
- Lock for repetitive measurement
- Free wheeling thumb roller
- Depth stop rod
- Adjustable bezel for zero setting

<table>
<thead>
<tr>
<th>UPC</th>
<th>NO.</th>
<th>CAPACITY</th>
</tr>
</thead>
<tbody>
<tr>
<td>10700</td>
<td>8</td>
<td>0 – 6” (0 – 153mm)</td>
</tr>
</tbody>
</table>

**PRECISION VERNIER CALIPER**
- General’s vernier caliper is an extremely accurate measuring tool guaranteed to .001” accuracy
- Vernier scale is extra long for easier and more accurate readings
- Permanent black graduations
- Hardened stainless steel construction with beveled lower jaws and pointed beveled upper jaws
- Inside, outside, depth and step measurement
- Automatic thumb lock
- Conversion table on back
- Plastic case with instructions
- Satin chrome finish

**6” ELECTRONIC DIGITAL CALIPER**
- Fiberglass reinforced plastic gives precision measurements at an economical price
- Accurate digital measurements in both inches, metric & fractional
- Freewheeling friction roller for repetitive and accurate readings
- Measuring capacity 0 – 6” (150mm)
- Inside, outside, depth and step measurement
- Swiss precision crafted
- Direct reading .0005/.01mm
- Accuracy 0.001”/0.1mm
- Adjustable zero
- Includes “LR44” battery

<table>
<thead>
<tr>
<th>UPC</th>
<th>NO.</th>
<th>GRADS</th>
</tr>
</thead>
<tbody>
<tr>
<td>33450</td>
<td>3</td>
<td>0-6” range, .001” bottom and 1/20mm top grads</td>
</tr>
</tbody>
</table>

**UTILITY MICROMETER**
- A practical and economical measuring device for beginners and hobbyists
- Well-suited for use in training programs, general toolroom and machine shop use and automotive work
- Accuracy guaranteed to .001”
- Satin chrome thimble and barrel with easy-to-read black contrasting graduations
- Special wrench is included for simple zero adjustments
- Ground and polished carbide measuring faces
- Engraved graduations on barrel
- Lock for repetitive measurement

<table>
<thead>
<tr>
<th>UPC</th>
<th>NO.</th>
<th>RANGE INCLUDES</th>
</tr>
</thead>
<tbody>
<tr>
<td>44103</td>
<td>4</td>
<td>0” to 1”</td>
</tr>
</tbody>
</table>

**DEPTH/ANGLE GAGE**
- Our easy to read gage makes precise depth measurements in small holes and slots; also doubles as a protractor
- Spring tension nut eases depth and angle measuring by securing rule in milled slot at 90° angle to base
- Permits easy setting of protractor angle to 30°, 45° and 60° settings on both sides
- 6” x 1/4” etched stainless steel rule graduated in 32nds and 64ths
- 2-1/2” wide hardened steel base

<table>
<thead>
<tr>
<th>UPC</th>
<th>NO.</th>
</tr>
</thead>
<tbody>
<tr>
<td>31586</td>
<td>1</td>
</tr>
</tbody>
</table>
General's Dial Indicators provide all the features necessary for precise quality control functions. Large dials provide easy to read measurements. The combination square sets for toolmakers and machinists consists of square and miter heads, center head and bevel protractor head. The 12" blade is fully hardened and tempered steel.

**MACHINIST TOOLS**

**Dial Indicators & Square Sets**

**PLUNGER DIAL INDICATOR**
- Large 2-1/2" diameter dial indicator is made to the highest standards, with extreme accuracy throughout its full range
- Dial is continuous and may be rotated for setting at any point
- Full 1" travel
- Revolution accumulator counter
- Direct decimal two-way reading left and right

<table>
<thead>
<tr>
<th>UPC</th>
<th>NO.</th>
<th>READINGS</th>
</tr>
</thead>
<tbody>
<tr>
<td>33605</td>
<td>7</td>
<td>MG1780 0 to .100&quot; by .001&quot;</td>
</tr>
</tbody>
</table>

**ECONOMY PLUNGER DIAL INDICATOR**
- Large 2-1/4" diameter dial indicator
- Accuracy to .001"
- Dial is continuous and may be rotated for setting at any point
- Full 1" travel
- Revolution accumulator counter

<table>
<thead>
<tr>
<th>UPC</th>
<th>NO.</th>
<th>READINGS</th>
</tr>
</thead>
<tbody>
<tr>
<td>10900</td>
<td>2</td>
<td>0 to .100&quot; by .001&quot;</td>
</tr>
</tbody>
</table>

**MAGNETIC BASE**
- No residual magnetism, when in the off position, to prevent scratching or other damage from inadvertent magnetism of chips or work pieces
- On/Off switch energizes only when in use on work surface
- V-groove for round surfaces
- Works on vertical or horizontal surfaces
- Switching adapts easily to cam action for automatic setups, using magnetic base as an on/off holding device

<table>
<thead>
<tr>
<th>UPC</th>
<th>NO.</th>
</tr>
</thead>
<tbody>
<tr>
<td>33587</td>
<td>MG1758</td>
</tr>
</tbody>
</table>

**COMBINATION SET WITH HARDENED SQUARE AND CENTER HEADS, REVERSIBLE PROTRACTOR AND PATENTED LOCATING DEVICE**
- Patented locating screw automatically positions all heads for quick assembly
- With hardened square and center heads for durability
- Double shoulder reversible protractor head
- Satin chrome 12" blade
- Square head has spirit level and hardened scribe
- Meets gov. specification GGG-S-656C.

<table>
<thead>
<tr>
<th>UPC</th>
<th>NO.</th>
<th>GRADUATIONS</th>
</tr>
</thead>
<tbody>
<tr>
<td>33840</td>
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<td>MG-S281-4R 8, 16, 32, 64</td>
</tr>
</tbody>
</table>

**COMBINATION SET WITH SQUARE HEAD, CENTER HEAD, AND REVERSIBLE PROTRACTOR HEAD**
- Double shoulder reversible protractor head
- 12" etched, high carbon steel ruler with satin chrome finish
- Square head has spirit level and hardened scribe
- Meets gov. specification GGG-S-656C

<table>
<thead>
<tr>
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<tbody>
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<td>MG-S278-4R 8, 16, 32, 64</td>
</tr>
</tbody>
</table>

**ALWAYS WEAR OSHA APPROVED SAFETY GOGGLES**

**T-70**
Screwdrivers

Power Screwdrivers
Lighted Screwdrivers
Versa Grip™ Handle
Precision Screwdriver
Sets:
• Lighted
• Slotted
• Phillips
• Torx®
• Probe
Pin Vises
Ratchet Offset
Precision Engraver
PRECISION SCREWDRIVER

Precision use for computers, electronics, industrial applications, hobbies and crafts.

Features & Benefits
- Uses Standard 4mm Precision Bits
- Quick Change Chuck
- 8+ Hours of Power
- 100+ RPM
- Super-Torque Drive
- Cordless (2 “AAA” alkaline batteries included)

Includes Six Precision Bits

No. 500

4mm Precision Bit
Quick Change Chuck
100+ RPM Super-Torque Drive
Ergonomically Designed Rubber Cushion Grip
Push and Hold for Forward Mode
ON/OFF Switch
Pull and Hold for Reverse Mode

To Replace Batteries Unscrew End Cap

Patent # D604,581 S

AWARD WINNER!
POPULAR MECHANICS

Shown Actual Size

T-72
Cordless Lighted Screwdriver

Precision use for computers, electronics, and industrial applications

Features & Benefits
- Super Bright LED Light
- 6+ Hours of Power
- 100+ RPM
- Super-Torque Drive
- Cordless (2 “AAA” alkaline batteries included)

Includes Six Precision Bits

4mm Precision Bit
Quick Change Chuck
100+ RPM Super-Torque Drive
Super Bright LED Light
Ergonomically Designed Rubber Cushion Grip
Push and Hold for Forward Mode
ON/OFF Switch
Pull and Hold for Reverse Mode

No. 502

“Precision, Specialty and Innovation . . . Since 1922” T-73

UPC 05020 5
NO. 502
PACK Carded

To Replace Batteries
Unscrew End Cap
Shown Actual Size
8-IN-1 LIGHTED SCREWDRIVER

Perfect for Computers, Electronics, Industrial and Residential Applications, Hobbies and Crafts

Features & Benefits

- Unique Design Features Two Drivers in One Handle
- Two Super Bright LED Lights Provide 360° Tip Illumination
- Transparent Collar Maximizes Illumination
- Convenient Bit Storage in Handle
- Cordless (3 "LR41" Batteries Included)

Four Double Ended Blades
Store in Handle for Convenience

No. 75108

UPC NO. PKG.
260024 75108 Carded

T-74
CORDLESS LIGHTED SCREWDRIVER
- Super Bright LED Light
- 6+ Hours of Power
- 100+ RPM
- Super-Torque Drive
- Ergonomically Designed
- Cordless (2 "AAA" alkaline batteries included)

Includes: 6 – 4mm Precision Bits
- #0, #1
- 1/16", 1/8"
- T5, T6

UPC NO. PACK
05020 5 502 Carded

8-IN-1 LIGHTED SCREWDRIVER
- Perfect for Computers, Electronics, Industrial and Residential Applications, Hobbies and Crafts
- Unique Design Features Two Drivers in One Handle
- Two Super Bright LED Lights Provide 360° Tip Illumination
- Transparent Collar Maximizes Illumination
- Convenient Bit Storage in Handle
- Cordless (3 "LR41" Batteries Included)
- Removable Mini-Screwdriver
- Ergonomic Cushion Grip

- Four Double Ended Blades Store in Handle for Convenience
- #0, #000
- 1/8", 5/16"
- T5, T8
- T6, T10

UPC NO. PACK
26002 4 75108 Carded
An innovative line of premium specialty tools for both the professional and do-it-yourselfer. At the heart of the UltraTech™ Tool System lies the exclusive Versa-Grip™ handle with its ergonomic design and the versatility of four (4) distinct grip positions. The Versa-Grip™ handle provides the maneuverability to meet the needs of nearly any job. What's more, Versa-Grip's eight-sided cushion grip and contoured head ensure maximum control as well as accurate pressure transfer onto the fastener or working surface.

Chrome plated or black oxide coated to resist corrosion
8650 Alloy Steel (nickel-chromium-molybdenum) blade
Body sized to prevent excess torque to fastener
Eight sided non-slip cushion grip
Color coded ring identifies type of tip
Rotating cap facets fit palm. Recess fits finger tip
Driver tip size shown on cap

**VERSAS-GRIP™**

4 Handle Sizes matched with 4 Blade Sizes. Specific tip torque requirements minimize the possibility of over-torquing of the fastener.

Screwdrivers are shown actual size

500 SERIES

1" (25mm)
2 7/8" (73mm)

600 SERIES

1 1/2" (38mm)
3 3/4" (86mm)

700 SERIES

2 1/2" (64mm)
3 7/8" (98mm)

750 SERIES

3" (76mm)
4 1/4" (107mm)
General’s high quality Precision Screwdriver Sets are ideal for hobbyists, technicians, mechanics and do-it-yourselfers. Also used by jewelers, watchmakers, instrument makers, subminiature parts assemblers and model makers. The ergonomically designed handle provides greater control and comfort. Black oxide blades ensure a precise fit and prevent corrosion.

18-PIECE PRECISION SCREWDRIVER SET
- Black oxide blades ensure a precision fit and prevent corrosion
- Eight sided cushion grip has a non-slip surface
- Close tolerance locking screw chuck holds blades securely in place
- Ergonomically designed handle for greater control and comfort
- Contoured fingertip swivel head allows greater pressure to be applied to the blade, for maximum torque and grip, while turning the fastening screw
- Packaged in a pocket sized fitted zipper case for secure storage

<table>
<thead>
<tr>
<th>UPC</th>
<th>NO.</th>
<th>PKG.</th>
</tr>
</thead>
<tbody>
<tr>
<td>63518</td>
<td>63518</td>
<td>Zippered Case/Carded</td>
</tr>
</tbody>
</table>

5-IN-1 MULTI-BLADE PRECISION SCREWDRIVER
- High-quality jewelers style precision screwdriver for mechanics, technicians, jewelers and do-it-yourselfers
- Five heat-treated blades conveniently store in handle.
- Blade sizes: 1/16", 5/64", 3/32" slotted tips; #00 Phillips and T6 Torx®
- Easy-twist screw chuck holds blade securely in place.
- Precision engineered 600 Series Versa-Grip™ handle for maximum performance

<table>
<thead>
<tr>
<th>UPC</th>
<th>NO.</th>
<th>PKG.</th>
</tr>
</thead>
<tbody>
<tr>
<td>22412</td>
<td>735</td>
<td>Carded</td>
</tr>
</tbody>
</table>

28-PIECE MULTI-BLADE SET
- Close tolerance locking screw chuck holds blades securely in place
- Black Oxide Blades ensure a precision fit and prevent corrosion
- Set includes: 26 Interchangeable Blades
  - 1 Multi-Blade Handle • 1 Blade Extension;
  - Slotted - 1/32", 3/64", 1/16", 5/64", 3/32";
  - Phillips - #0000, #000, #00 • Torx® - T6, T7, T8, T9 • Hex - .050, 1/16", 5/64"
  - Nut-Drivers - 3/32", 1/8", 5/32" • Awl/Scribe
  - Precision engineered 600 Series Versa-Grip™ handle for maximum performance

<table>
<thead>
<tr>
<th>UPC</th>
<th>NO.</th>
<th>PKG.</th>
</tr>
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<tbody>
<tr>
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<td>63528</td>
<td>Zippered Case/Carded</td>
</tr>
<tr>
<td>63528</td>
<td>63528</td>
<td>Patented</td>
</tr>
</tbody>
</table>
**16-IN-1 SCREWDRIVER SET**
- The ultimate screwdriver for all applications
- Unique 2 drivers in 1 handle design; Jewelers and Full Size
- Set includes: 8 Double-ended hardened alloy steel blades
- Zinc plated to prevent rust
- Phillips - #0 x #000
- Phillips/Slotted - #0000 x 3/64", Slotted - 1/8" x 5/64"
- Hex - .050" x 1/16", 5/64" x 3/32"
- Torx® - T5 x T8, T6 x T10
- Square Recess - #0 x #1
- Double-ended blades are held in a carrier which snugly fits in handle
- Powerful magnet in handle allows the handle to be used as a driver with any power shank bit (not included)
- Precision engineered 750 Series Versa-Grip ™ handle for maximum performance

**8 HARDENED ALLOY STEEL BLADES SHOWN WITH JEWELERS SIZE HANDLE**

**INDUSTRY STANDARD INSERT BITS WITH MAGNETIC BIT HOLDER**

**UPC NO. PKG.**

75106 5 751016 Carded

**28-PIECE BIT DRIVER SET - 16-IN-1 PLUS**
- All the features of the 16-in-1, Model No. 751016, with the added full size bit capabilities
- Set includes: 8 double-ended hardened alloy steel precision blades. Zinc plated to prevent rust
- Phillips - #0 x #000
- Phillips/Slotted - #0000 x 3/64" Slotted - 1/8" x 5/64"
- Hex - .050" x 1/16", 5/64" x 3/32" Torx® - T5 x T8, T6 x T10
- Square Recess - #0 x #1 Magnetic Insert Bit Holder
- Industry Standard Insert Bits Slotted - 3/16", 1/4" Phillips - #1, #2 Torx® - T15, T20, T25
- Hex - 1/8" 5/32", 3/16" #2 Square Recess
- Convenient storage under cap for all 8 blades
- Packaged in a fitted Ballistic Nylon Holster
- Vinyl holster insert holds 11 insert bits and one magnetic insert bit holder
- Precision engineered 750 Series Versa-Grip ™ handle for maximum performance

**UPC NO. PKG.**

75102 7 751028 Holster/Carded

**4-IN-1 PRECISION SCREWDRIVER**
- High-quality precision screwdriver for mechanics, technicians, hobbyists and do-it-yourselfers
- Two double-ended blades are held in a reversible carrier which snugly fits in handle
- Phillips #0, #000; Slotted 5/64", 1/8"
- Change blade sizes instantly.

**UPC NO. PKG.**

22394 4 741 Carded
5-PC PRECISION SCREWDRIVER SET - SLOTTED & PHILLIPS

- Driver tip size shown on cap
- Rotating cap; facets fit palm, recess fits finger tip
- Color coded ring identifies type of tip
- Body sized to prevent excessive torque to fastener
- 8-Sided non-slip cushion grip
- 8650 Alloy steel (nickel-chromium-molybdenum)
- Chrome plated to resist corrosion

<table>
<thead>
<tr>
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<td>2-1/2 (64mm)</td>
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<tr>
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<td>Phillips No. 0</td>
<td>1-1/2 (38mm)</td>
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</tr>
<tr>
<td>712010</td>
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<tr>
<td>712001</td>
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5-PC PRECISION TORX® SCREWDRIVER SET

- Driver tip size shown on cap
- Rotating cap; facets fit palm, recess fits finger tip
- Color coded ring identifies type of tip
- Body sized to prevent excessive torque to fastener
- 8-Sided non-slip cushion grip
- 8650 Alloy steel (nickel-chromium-molybdenum)
- Black oxide coated to resist corrosion

<table>
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<td>Torx® T10</td>
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7-PC PRECISION SCREWDRIVER SET SLOTTED, PHILLIPS & TORX®

- Driver tip size shown on cap
- Rotating cap; facets fit palm, recess fits finger tip
- Color coded ring identifies type of tip
- Body sized to prevent excessive torque to fastener
- 8-Sided non-slip cushion grip
- 8650 Alloy steel (nickel-chromium-molybdenum)
- Chrome plated/black oxide coated to resist corrosion

<table>
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<tr>
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<td>1/16 (1.5mm)</td>
<td>1 (25mm)</td>
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<td>611094</td>
<td>Slotted</td>
<td>3/32 (2.5mm)</td>
<td>1-1/2 (38mm)</td>
</tr>
<tr>
<td>711125</td>
<td>Slotted</td>
<td>1/8 (3.0mm)</td>
<td>2-1/2 (64mm)</td>
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<tr>
<td>612020</td>
<td>Phillips No. 0</td>
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<td>712010</td>
<td>Phillips No. 0</td>
<td>2-1/2 (64mm)</td>
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<tr>
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<td>Phillips No. 1</td>
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<td>613006</td>
<td>Torx® T6</td>
<td>1-1/2 (38mm)</td>
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“Precision, Specialty and Innovation . . . Since 1922”
SCREWDRIVERS

Precision Sets

General's High Quality Screwdrivers Sets are ideal for hobbyists, technicians, mechanics and do-it-yourselfers. Also used by jewelers, watchmakers, instrument makers, subminiature parts assemblers and model makers. The Jeweler's Screwdriver bodies are nickel plated with swivel heads. All the precision screwdrivers share the same features, quality and value that you have come to expect from General.

POCKET 4-IN-1 MINI SCREWDRIVER
- This screwdriver is ideal for technicians, hobbyists and do-it-yourselfers
- 2 double-ended chrome vanadium blades
- 1/16" and 1/8" slotted tip and #1 and #00 cross-point tip
- Blades are held in carrier handle
- Change blade sizes instantly
- Convenient pocket clip and capped ends

4-IN-1 POCKET SCREWDRIVER
- This screwdriver is ideal for technicians, hobbyists and do-it-yourselfers
- 2 double-ended chrome vanadium blades
- 1/8" and 5/32" slotted tip and #0 & #1 cross-point tip
- Blades are held in carrier handle
- Change blade sizes instantly
- Convenient pocket clip and capped ends
- Length is 5-1/4" (133mm)

FIVE BLADE SCREWDRIVER SET
- Blades are black oxide and screwdriver body is plated to prevent rust
- Four tempered steel straight blades and one No. 0 crosspoint blade
- Injection molded plastic case

JEWELER'S SCREWDRIVER AND HOBBY KIT
- Blades are black oxide and body is plated to prevent rust
- Three tempered straight blade sizes, one crosspoint blade and one scratch awl in a fitted vinyl case

SET OF SIX JEWELER'S SCREWDRIVERS
- Black oxide blade sizes: .100", .080", .070", .055", .040", .025"
- Screw chucks have identification rings showing blade size
- Overall length 3-7/8"
- Conforms to government specifications GGG-S-1808
- Plastic case
- Individual screwdrivers available

<table>
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<tr>
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<th>NO.</th>
<th>LENGTH</th>
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<tbody>
<tr>
<td>74401</td>
<td>744</td>
<td>5-1/8&quot; (130mm)</td>
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<tr>
<td>74400</td>
<td>744DB</td>
<td>Bulk in 24 pieces</td>
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<td>00744</td>
<td>744CD</td>
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(see Page T-132 for dis-

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<tbody>
<tr>
<td>42565</td>
<td>S605</td>
<td>Sizes: .040&quot;, .055&quot;, .070&quot;, 1/16&quot; and #0 crosspoint</td>
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</table>

ALWAYS WEAR OSHA APPROVED SAFETY GOGGLES

Set of 6 in Vinyl Case

INDIVIDUAL SCREWDRIVERS

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<tr>
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<td>.100</td>
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<td>600-1</td>
<td>.080</td>
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<td>.070</td>
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<td>42524</td>
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<td>.055</td>
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<td>42527</td>
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<td>.040</td>
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<tr>
<td>42530</td>
<td>600-5</td>
<td>.025</td>
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Seven Blade Screwdriver Set Sizes: .100", .080", .070", .055", .040", .025" and #0 crosspoint.
Comes in plastic tube

T-80
General Tools Precision Screwdrivers feature a full range of best selling screwdrivers made to exceed ANSI specifications. The screwdrivers have been engineered with four handle sizes matched to tip torque requirements to minimize over torquing fasteners.

**10-PIECE MINI SCREWDRIVER SET**
- Patented, ergonomically designed handle for rotation, greater comfort and control
- Plated alloy steel blades ensure a long life
- Hardened tips and shafts ensure a maximum workload
- Three different blade configurations with color-coded large swivel heads
- Overall screwdriver length is 4-5/8" (117mm)
- Blade length is 1-1/2" (38mm)
- Set includes one each of the following sizes.
  Slotted: 3/64" x 1-1/2", 1/16" x 1-1/2", 5/64" x 1-1/2", 3/32" x 1-1/2";
  Phillips: #0 x 1-1/2", #00 x 1-1/2", #0 x 1-1/2";
  Torx®: T-6 x 1-1/2", T-7 x 1-1/2", T-8 x 1-1/2"

**UPC** | **NO.** | **PACK**
--- | --- | ---
22200 8 | 690 | Carded

**EYEGlass REPAIR KIt**
- Travel-size with plastic carry case
- Great for emergencies
- Includes: screwdriver, tweezers, screws, nose pads and rubber rings for tightening side arm/frame
- Available individually carded or in a countertop display box

**UPC** | **NO.** | **PACK**
--- | --- | ---
00601 1 | 601 | 
00601 2 | 601CD | Countertop Display/50 pieces

**2-PIECE PRECISION MICRO SCREWDRIVER SET**
- Ideal for close, delicate work
- Durable and rust-resistant
- Includes: Phillips #0 and Slotted tip 3/32"
- Available individually carded or in a countertop display box

**UPC** | **NO.** | **PACK**
--- | --- | ---
06020 4 | 602 | 
06020 5 | 602CD | Countertop Display/18 pieces

**6-PIECE PRECISION SCREWDRIVER SET**
- For repairing jewelry, cameras, eyeglasses and instruments
- Fingertip swivel head for greater control
- Convenient screwdriver stand
- Includes: Phillips #1, #0 and Slotted tip 1/8", 3/32", 6/64", 1/16"
- Handles plated to prevent rust
- Available individually carded or in a countertop display box

**UPC** | **NO.** | **PACK**
--- | --- | ---
06090 7 | 609 | 
06090 8 | 609CD | Countertop Display/18 pieces

---

"Precision, Specialty and Innovation . . . Since 1922"
**SCREWDRIVERS**

**Carded Sets**

<table>
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<tr>
<th>A</th>
<th>B</th>
<th>B1</th>
<th>B2</th>
<th>C</th>
<th>D</th>
<th>E</th>
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<tbody>
<tr>
<td><strong>OVERALL LENGTH</strong></td>
<td><strong>LENGTH OF BLADE</strong></td>
<td><strong>BLADE TIP DIAMETER</strong></td>
<td><strong>BLADE TIP THICKNESS</strong></td>
<td><strong>HANDLE LENGTH</strong></td>
<td><strong>HANDLE DIAMETER</strong></td>
<td><strong>NOB DIAMETER</strong></td>
</tr>
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**PRECISION SLOTTED SCREWDRIVERS**
- Driver tip size shown on cap
- Rotating cap: facets fit palm, recess fits finger tip
- Color coded ring identifies type of tip
- Body sized to prevent excessive torque to fastener
- 8-Sided non-slip cushion grip
- Blades constructed of heat treated 8650 Alloy steel (nickel-chromium-molybdenum)
- Chrome plated to resist corrosion

**PRECISION PHILLIPS SCREWDRIVERS**
- Driver tip size shown on cap
- Rotating cap: facets fit palm, recess fits finger tip
- Color coded ring identifies type of tip
- Body sized to prevent excessive torque to fastener
- 8-Sided non-slip cushion grip
- Blades constructed of heat treated 8650 Alloy steel (nickel-chromium-molybdenum)
- Chrome plated to resist corrosion

**PRECISION TORX® SCREWDRIVERS**
- Driver tip size shown on cap
- Rotating cap: facets fit palm, recess fits finger tip
- Color coded ring identifies type of tip
- Body sized to prevent excessive torque to fastener
- 8-Sided non-slip cushion grip
- Blades constructed of heat treated 8650 Alloy steel (nickel-chromium-molybdenum)
- Black oxide coated to resist corrosion

**PRECISION SLOTTED SCREWDRIVERS - CARDED (OPEN STOCK)**

<table>
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<th>UPC NO.</th>
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<th>B2 (mm)</th>
<th>C (mm)</th>
<th>D (mm)</th>
<th>E (mm)</th>
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<td>5/64&quot; (2)</td>
<td>0.014&quot; (0.356)</td>
<td>3-3/8&quot; (86)</td>
<td>1/2&quot; (13)</td>
<td>3/4&quot; (19)</td>
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<tr>
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<td>4-7/8&quot; (124)</td>
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<td>3/4&quot; (19)</td>
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<tr>
<td>71110 6</td>
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<td>1/8&quot; (3)</td>
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All Patented

**PRECISION TORX® SCREWDRIVERS - CARDED (OPEN STOCK)**

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All Patented

**PRECISION PHILLIPS SCREWDRIVERS - CARDED (OPEN STOCK)**

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<tr>
<th>UPC NO.</th>
<th>A (mm)</th>
<th>B (mm)</th>
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<td>1-5/64&quot; (23)</td>
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</tbody>
</table>

All Patented

---

**SAFETY GOGGLES**

OSHA APPROVED

ALWAYS WEAR

SAFETY GOGGLES

---

**T-82**
General's high quality Pin Vises are ideal for hobbyists, technicians, mechanics and do-it-yourselfers. Also used by jewelers, watchmakers, instrument makers, subminiature parts assemblers and model makers. The pin vise bodies are ergonomically designed for greater control and comfort. The precision collet is made of hardened tool steel for longer life.

### T6 CELL PHONE SCREWDRIVER
- For repairs, battery changes or phone cover (faceplate) changes
- For use in any application requiring a T-6 Torx® screwdriver
- Fingertip swivel head for greater control
- Patented, ergonomically designed handle
- 1-1/2 inch (38mm) Chrome vanadium steel blade

<table>
<thead>
<tr>
<th>UPC</th>
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<th>PACK</th>
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<td>22415 7</td>
<td>666CD</td>
<td>Countertop Display/18 pieces</td>
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</table>

### MINIATURE PIN VISE
- An exceptional pin vise for precise work on models, instruments and jewelry
- Precision collet is made of hardened tool steel for longer life
- Precision engineered 700 Series Versa-Grip™ handle for maximum performance

<table>
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<tr>
<th>UPC</th>
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<th>PKG.</th>
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<td>70965 3</td>
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<td>0 – 0.059&quot;</td>
<td>Carded (0 – 1.5mm)</td>
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### 4-IN-1 PIN VISE
- An exceptional pin vise for multiple projects
- Contains: 2 double ended collets:
  - 0 – 0.031" and 0.093" – 0.125"
  - 0.031" – 0.062" • .062" – .093"
- Internal storage under cap for spare collet
- Precision engineered 750 Series Versa-Grip™ handle for maximum performance

<table>
<thead>
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<th>UPC</th>
<th>NO.</th>
<th>PKG.</th>
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<tbody>
<tr>
<td>75973 3</td>
<td>75801</td>
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</table>

### 6-PIECE - 4-IN-1 PIN VISE SET
- An exceptional pin vise for multiple projects
- Set contains: No. 75801 pin vise, 2 double ended collets:
  - 0 – 0.031" and 0.093" – 0.125"
  - 0.031" – 0.062" • .062" – .093"
  - 5 Drills • 1/32" • 3/64" • No. 43
  - No. 50 • No. 53.
- Internal storage under cap for spare collet and drill bits
- Precision engineered 750 Series Versa-Grip™ handle for maximum performance

<table>
<thead>
<tr>
<th>UPC</th>
<th>NO.</th>
<th>PKG.</th>
</tr>
</thead>
<tbody>
<tr>
<td>75974 0</td>
<td>75806</td>
<td>Carded</td>
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</table>
For hard-to-reach screws, use the Ratchet Offset Screwdriver, especially where leverage is required. The ratchet drive reverses instantly for clockwise or counterclockwise rotation. The blades are made of machined ground and hardened tool steel. Recessed head screws have a hex shaped recess. A hex wrench is used to remove or tighten this type of screw.

**Ratchet Offset Screwdriver Set, 19PC.**
- Combines hex wrench and screwdriver functions
- Ratchet drive handle reverses instantly for clockwise and counter-clockwise rotation
- Hardened tempered steel, black oxide bits and nickel plated steel ratchet handle
- Packaged in a convenient storage case

**Ratchet Offset Screwdriver Set, 5PC.**
- For reaching inaccessible screws where leverage is desired
- Use in guns and camera repair work
- Ratchet driver is plated steel and instantly adjusts for right or left-hand use
- Has hardened tempered steel blades
- Uses standard insert bits

**Ratchet Offset Screwdriver Set, 5PC.**
- Conforms to government specifications GGG-S-1408

**Ratchet Offset Screwdrivers**
- Blades are made of machined, ground and hardened tool steel
- Ratchet reverses for clockwise or counterclockwise rotation
- Conforms to government specification GGG-S-1408

**UPC NO.**

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<td>42670</td>
<td>807X</td>
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<tr>
<td>42663</td>
<td>807SX</td>
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9-PIECE RATCHET OFFSET SCREWDRIVER SET
• The Ratchet Offset Screwdriver is used for reaching concealed or obstructed screws, and is helpful in situations where leverage is required
• The Ratchet drive handle reverses instantly for clockwise and counter-clockwise rotation
• Permits short radius movements where turning space is limited
• 72 tooth ultra-fine ratchet requires only 5° turning radius
• The Chrome Vanadium Steel ratchet handle is ergonomically designed which allows for greater control, comfort and torque
• Hardened tempered alloy steel bits included
• 1/4" magnetic bit-holder can be used in power tools
• Accepts industry standard insert bits

9-PIECE SET INCLUDES:
• 1/4" and 3/16" Slotted bits, • No. 1 and No. 2 Phillips bits,
• T15 and T20 Torx, • 1/8" and 5/32" Hex

<table>
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<tbody>
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</table>

18-PIECE RATCHET OFFSET SCREWDRIVER SET
• For reaching hard-to-get-at screws, the Ratchet Offset Screwdriver is used, especially where leverage is required
• The Ratchet Drive Handle reverses instantly for clockwise and counter-clockwise rotation
• Permits short radius movements where turning space is limited
• 72 tooth ultra-fine ratchet requires only 5° turning radius
• The Chrome Vanadium Steel ratchet handle is ergonomically designed which allows for greater control, comfort and torque
• Hardened tempered alloy steel bits included
• 1/4" magnetic bit-holder can be used in power tools
• Accepts industry standard insert bits
• Packaged in a pocket-sized fitted zippered case for secure storage

18-PIECE SET INCLUDES: • One reversible ratchet handle • 1 - 2-3/8" extension shaft
• 1 - 1/4" square drive adapter • 1 each No. 1 and No. 2 Phillips bits • 1 each 3/16" and 1/4" slotted bits • 1 each T15 and T20 Star bits • 1 each S1 and S2 Square Drive bits
• 1 each 1/8" and 5/32" Hex bits • 6 Socket sizes: 3/8", 11/32", 5/16", 9/32", 1/4", 7/32". All Sockets are for use with the 1/4" Square Drive adapter.

<table>
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<tr>
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<td>Zippered Case/Boxed</td>
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</table>
Cordless Precision Engraver

- Diamond Tip Bit
- 20,000 RPM Motor
  Engraves Glass, Metal, Ceramic and Plastic
- Aluminum Body
- Uses Standard 3/32" Engraving Bit
- 2 “AAA” Batteries Included

NEW!

No. 505 Patented

UPC NO. 021394505

Overall Length: 6-1/2"
Width: 1/2" 0.0 to 3.2mm

Diamond Tip Bit
20,000 RPM Motor
ON/OFF Switch
Ergonomic “Tri-Lobal” Grip

To Replace Batteries
Unscrew End Cap

Bit Anchor
Set Screw
(Allen wrench included)
Power Engraver
Plumb Bobs
Pin Vises
Retrieving Tools
lighted Mechanical
Pick-Ups
Tweezers
Screw Starters
Calipers
Measuring/
Marking
Magnifiers
Lighted Mirrors
Mini Lights
Inspection Mirrors
Magnetic Retrieving
Tools
Magnetic Sweepers
Magnets
Cutting & Carving
Tools
Grommets,
Fasteners
Punches & Plies
Files & Probes
Levels
Rescue + One
The Quad™
Sawdriver
**SPECIALTY TOOLS**

**Precision Engraver/Plumb Bobs**

A Plumb Bob is a pointed, tapered brass or steel weight which is suspended from a cord for determining the vertical or plumb line to a point on the ground. General's Plumb Bobs are available in a wide range of sizes and conform to government specifications.

**HEXAGON STEEL PLUMB BOBS**

- Made of hexagonal cold drawn steel and nickel plated to prevent rust
- Removable cord cap for 3/32" (0.094) diameter cord
- 10' (3mm) long braided cord

**BRASS PLUMB BOBS**

- Machined of solid brass, fully polished and lacquered
- Removable self-centering cord cap for easy cord replacement. Cap used with 5/64" (0.078) braided cord
- Replaceable hardened steel point
- Conforms to government specs GGG-P-501e
- Now with extra string and tip
- 10' (3mm) long braided cord
- Available in six sizes

**CORDLESS PRECISION ENGRAVER**

- Diamond Tip Bit
- Precision cordless engraving anywhere
- Use on metal, plastic, ceramic or glass surfaces
- Protects all types of valuables
- Uses standard 3/32" engraving bit
- Aluminum body
- 20,000 RPM motor
- 2 "AAA" batteries (included)

**UPC NO.**

- **WEIGHT (A)**
- **WEIGHT (B)**
- **CAPACITY**

**UPC** | **NO.** | **WEIGHT (A)** | **WEIGHT (B)** | **CAPACITY**
--- | --- | --- | --- | ---
42624 6 | 800-8 | 8 oz. | 4-1/2" (114mm) | 1-3/16" (30mm)
42630 7 | 800-12 | 12 oz. | 5" (127mm) | 1-3/8" (35mm)
42633 8 | 800-16 | 16 oz. | 5-3/4" (146mm) | 1-1/2" (38mm)
42639 0 | 800-32 | 32 oz. | 7-1/4" (184mm) | 1-7/8" (48mm)
42641 3 | 800NP | Replacement Point 10-33 Thread | | |

**UPC**

- **NO.**
- **CAPACITY**

**UPC** | **NO.** | **CAPACITY**
--- | --- | ---
42612 3 | 790-5 | 5 oz. | 3-3/8" (86mm)
42615 4 | 790-8 | 8 oz. | 4" (102mm)
42618 5 | 790-12 | 12 oz. | 4-1/2" (114mm)

**UPC**

- **CAPACITY**

**UPC** | **CAPACITY**
--- | ---
42612 3 | 5 oz.
42615 4 | 8 oz.
42618 5 | 12 oz.

**UPC**

- **CAPACITY**

**UPC** | **CAPACITY**
--- | ---
42624 6 | 1-3/16" (30mm)
42630 7 | 1-3/8" (35mm)
42633 8 | 1-1/2" (38mm)
42639 0 | 1-7/8" (48mm)
42641 3 | Replacement Point 10-33 Thread
General’s Pin Vises are useful for securely holding small stock, taps, drills, reamers, scribers, wire, files and other tools. The tool steel collets are hardened and grip firmly when the screw chuck is tightened. The Swivel Head Pin Vise is an exceptional tool for precise work on models, instruments and jewelry.

**SINGLE END PIN VISE SET**
- For holding small rods, wire, drills, taps and other small tools
- Tool steel collets are hardened and grip firmly when screw chuck is tightened
- Nickel plated body is hollow to permit holding of long rods of wire
- Available in individual sizes
- Conforms to government specifications GGG-V-412a

<table>
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<tr>
<th>UPC</th>
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<th>RANGE (A)</th>
<th>(B)</th>
<th>(C)</th>
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<tbody>
<tr>
<td>41068 9</td>
<td>S94</td>
<td>Set of 4 sizes, A-D</td>
<td>3-1/8&quot; (79mm)</td>
<td>5/16&quot; (8mm)</td>
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<tr>
<td>41074 0</td>
<td>94A</td>
<td>0 to 0.055&quot; (0 to 1.4mm)</td>
<td>3-1/2&quot; (89mm)</td>
<td>3/8&quot; (10mm)</td>
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<tr>
<td>41077 1</td>
<td>94B</td>
<td>0.025 to 0.075&quot; (.6 to 1.9mm)</td>
<td>3-13/16&quot; (97mm)</td>
<td>7/16&quot; (11mm)</td>
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<tr>
<td>41080 1</td>
<td>94C</td>
<td>0.045 to 0.125&quot; (1.1 to 3.2mm)</td>
<td>4&quot; (102mm)</td>
<td>9/16&quot; (14mm)</td>
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<tr>
<td>41083 2</td>
<td>94D</td>
<td>0.110 to 0.187&quot; (2.8 to 4.8mm)</td>
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</tr>
</tbody>
</table>

**SWIVEL HEAD PIN VISE**
- An exceptional pin vise for precise work on models, instruments and jewelry
- Two double end collets made of hardened tool steel
- Has large freewheeling swivel head
- Collets stored in handle

**DOUBLE END PIN VISE**
- Each end has a double end collet which may be reversed to desired size
- Nickel plated body is hollow to permit use of long wire or rods
- Collets stored in handle
- Holds a variety of small tools for fine detail work

<table>
<thead>
<tr>
<th>UPC</th>
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<tbody>
<tr>
<td>41062 7</td>
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<td>0.0 to 0.125&quot; (0.0 to 3.2mm)</td>
</tr>
</tbody>
</table>

**ADJUSTABLE PIN VISE**
- Use for electronic assembling, tool-making, model making and hobbies
- Holds small drills, deburrers, wires, files, reamers and other small tools
- 3-jaw hardened steel keyless chuck and sturdy plastic handle

**SWIVEL VACUUM VISE**
- This popular vise grips firmly to glass, metal, laminate, fiberglass, or any smooth nonporous surface with quick lever action
- Universal ball joint swivels 360° to any position and tilts 90° to any angle
- V-grooved hardened steel jaws are 3" wide and open to 2-5/8"
- Furnished with slide-on rubber jaws for fragile work
- Folds for storage

<table>
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<th>BASE HEIGHT</th>
<th>OVERALL WEIGHT</th>
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<tr>
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<td>1850</td>
<td>6-1/4&quot;</td>
<td>6-1/4&quot;</td>
<td>5 lbs.</td>
</tr>
</tbody>
</table>

**ADJUSTABLE FILE/TOOL HANDLE**
- For holding files, reamers, hacksaw blades and other tang handled tools
- Exclusive steel parallel clamping jaws grip the entire length of the inserted tang to prevent slipping
- Large, quick adjusting knurled knob ensures positive locking
- Rustproof handle with steel parts
- Conforms to government specifications NN-H-0085

<table>
<thead>
<tr>
<th>UPC</th>
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<tbody>
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</table>
The new Lighted Mechanical Pick-Ups allow you to retrieve items from dark, hard to reach places. The powerful LED light sheds a beam of light on your subject. The strong 4-prong steel jaws allows you to retrieve small items. The shaft comes in 3 different lengths, 12", 24", and 36".

**LIGHTED MECHANICAL PICK-UPS**

Let that flashlight sleep! General’s new Lighted Mechanical Pick-Up has a powerful white LED that sheds a bright light on your quarry. Its strong 4-prong steel jaws can capture objects up to 1 in. (25mm) across.

- Push on powerful LED light
- Continued push opens retrieval claw
- Comfortable ergonomically designed hand controls

<table>
<thead>
<tr>
<th>UPC</th>
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<td>70399 6</td>
<td>70393 12&quot; OAL Patented</td>
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<tr>
<td>26003 1</td>
<td>70396 24&quot; OAL Patented</td>
</tr>
<tr>
<td>70393 4</td>
<td>70399 36&quot; OAL Patented</td>
</tr>
</tbody>
</table>

**MINI MECHANICAL PICK-UP**

- Strong four prong steel jaws retrieve small objects up to 1/2" (12mm)
- Knurled body with tapered point for hard-to-reach work areas
  - Smooth traveling plunger actuator for greater control
- Chrome finish to prevent rust
- Can be used as a screw starter

<table>
<thead>
<tr>
<th>UPC</th>
<th>NO.</th>
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<tbody>
<tr>
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</table>

**MECHANICAL PICK-UP**

- Strong four prong steel jaws retrieve small items from hard-to-reach places
- Knurled body with tapered point for hard-to-reach work areas
- Smooth actuator for greater control
- Chrome finish to prevent rust
- Flexible shaft to avoid obstacles

<table>
<thead>
<tr>
<th>UPC</th>
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<tbody>
<tr>
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</tbody>
</table>

**TELESCOPING ALLIGATOR CLIP**

- Ideal for lighting pilot lights and barbecues
- Jaw capacity: .170" (4.30mm)
- Chrome finish to prevent rust
- Convenient pocket-clip

<table>
<thead>
<tr>
<th>UPC</th>
<th>NO.</th>
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<tbody>
<tr>
<td>42217 8</td>
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</table>
Lighted mechanical pick-ups are ideal for retrieving items from dark or hard-to-reach areas

**Features: (70390/70391)**

- Lighted Magnetic/Mechanical Pick-Up 24" (610mm) and 36" (914mm) with Flexi-Shaft™
- Push on powerful LED light
- Continued pushing opens strong spring steel retrieval claw
- Comfortable ergonomically designed hand control
- Flexible shaft
- Corrosion resistant black finish
- Sliding magnetic sleeve
- Includes 3 “LR41” batteries

**No. 70393**
12” (305 mm)

**No. 70390**
24” (610 mm)

**No. 70391**
36” (914 mm)

**Features: (70393/70396/70399)**

- Lighted Mechanical Pick-Up 24” (610mm) and 36” (914mm) with Flexi-Shaft™
- Push on powerful LED light
- Continued pushing opens retrieval claw
- Comfortable ergonomically designed hand control
- Flexible shaft
- Strong spring steel retrieval claw
- Includes 3 “LR41” batteries

**No. 70396**
24” (610 mm)

**No. 70399**
36” (914 mm)
Tweezers

General's Precision Tweezers are used for electronics, computer, instrument, radio and other small or subminiature assembly, servicing and repairs. The Industrial Tweezers or General's quality line are used by toolmakers, repair-people, electronic assemblers and other professionals. Utility Tweezers are used by mechanics, crafts-people and hobbyists where value is desired.

**SPECIALTY TOOLS**

**UTILITY TWEEZERS.** Designed for mechanics, hobbyists and craftspeople

<table>
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**INDEPENDENT STYLES OF UTILITY TWEEZERS**

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**SWISS PATTERN TWEEZERS**

- Light tension and hardened points for subminiature assemblies
- Stainless steel construction
- Finest quality precision points

<table>
<thead>
<tr>
<th>UPC</th>
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<td>4-1/8&quot;</td>
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</table>

**SIX-PIECE TWEEZER SET**

- Consists of six tweezers for home and industrial use
- One each of Nos. 401XX, 403, 412, 414, 415, 417
- In clear vinyl pouch

<table>
<thead>
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<th>UPC</th>
<th>NO.</th>
<th>POINT STYLE</th>
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<td>6&quot;</td>
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<tr>
<td>42280</td>
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<td>410</td>
<td>4-1/4&quot;</td>
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</table>

**TWEEZER MAGNIFIER**

- Useful for detailed projects
- 5-power lens
- Stainless steel tweezers
- Double hinged adjustable arm

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<tr>
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**PRECISION TWEEZERS.** For electronic, computer, instrument, radio and other small or subminiature assembly, servicing and repairs

**BOLEY PATTERN TWEEZER**

Jewelry/watchmaking, instrument assembly, computer and electronics repair

- Ultra-fine point
- Manufactured to close tolerances
- Hardened stainless steel construction

<table>
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<td>401AA</td>
<td>5&quot;</td>
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</table>

**INDUSTRIAL TWEEZERS.** Toolmaking, equipment assembly, computer and electronics repair

**INDEPENDENT STYLES OF INDUSTRIAL TWEEZERS**

<table>
<thead>
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<td>42280</td>
<td>4</td>
<td>410</td>
<td>4-1/4&quot;</td>
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</table>
General’s Lighted Tweezers allow you to retrieve items from dark, hard-to-reach places. The powerful LED light allows you to put the light exactly where you need it. Available in three tip configurations.

**LIGHTED TWEEZERS**

Now, put the light exactly where you need it!
- Push ON/Push OFF powerful LED light
- Non-slip comfort grip
- Heat treated steel
- Corrosion resistant non-glare black finish
- 6.25” (159mm) long
- Sets of two and three available in heavy-duty nylon carrying case
- Power Source: 3 “LR41” batteries per tweezer (included)

**NUT STARTER**
- For starting or removing threaded nuts in hard-to-reach areas. Can also be used when nuts are too small to be held by hand while being threaded
- Easy-to-use spring steel chuck will hold nut sizes from 3-48 thread (3/32” or 2.5mm) to 5/16” (8mm)

**SLOTTED SCREW STARTER**
- For starting or removing slotted screws in hard-to-reach areas. Can also be used when screws are too small to be held by hand while being threaded
- Spring loaded steel chuck holds slotted screws from No. 3 to 7/16” sizes

**CROSS POINT SCREW STARTER**
- For starting or removing cross point screws in hard-to-reach areas. Can also be used when screws are too small to be held by hand while being threaded
- Easy-to-use spring steel chuck holds screws from No. 6 to 1/4” size

---

"Precision, Specialty and Innovation . . . Since 1922"
Light Weight Non-Marring Carbon Fiber Construction

3 Mode Digital Display

2 Sizes Now Available
3" (76mm) / 6" (150mm)

3" Fraction+ Caliper Clips into Your Pocket

Convenient Auto On/Off Feature

Specifications:

Range:
No. 1433 (3")
0 - 3" (0-76mm)
No. 146 (6")
0 - 6" (0 - 150mm)

Accuracy:
No. 1433 (3")
+/- 0.005", +/- 0.1mm
No. 146 (6")
+/- 0.008", +/- 0.2mm

Resolution:
0.0005"
0.01mm
1/64"

Repeatability:
0.0005"
0.01mm
1/64"

From the Hobbyist to the Technician and Measuring Everything in Between
**FRACTION+**

The Digital Fractional Caliper Family

General's newest “Fraction+” Calipers measure in fractional inches as well as decimal inches and millimeters. It’s perfect for everyone from the DIYer to the professional.

---

### 6”, 8” & 12” StainlesS Steel Digital fractional calipers

- Heavy-duty stainless steel construction
- Convenient auto-off feature
- Three mode digital display: Decimal inches, fractional inches and millimeters
- Inside, outside, depth & step measurements
- Accuracy: +/- 0.001”, +/- 0.02mm
- Resolution: 0.0005”, 0.01mm, 1/64”
- Power Source: 1 “SR44” battery (included)

<table>
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<tr>
<td>01478 3</td>
<td>1478</td>
<td>0 - 8” (0 - 203mm)</td>
</tr>
<tr>
<td>14712 7</td>
<td>14712</td>
<td>0 - 12” (0 - 305mm)</td>
</tr>
</tbody>
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---

### 6” Carbon Fiber Digital fractional caliper

- 6” (153mm) range
- Lightweight, non-marring carbon fiber composite
- Convenient auto-off feature
- Three mode digital display: Decimal inches, fractional inches and millimeters
- Inside, outside, depth & step measurements
- Accuracy: +/- 0.001”, +/- 0.02mm
- Power Source: 1 “SR44” (1.5V) battery (included)

<table>
<thead>
<tr>
<th>UPC</th>
<th>NO.</th>
<th>RANGE</th>
</tr>
</thead>
<tbody>
<tr>
<td>01460 3</td>
<td>146</td>
<td>0 - 6” (0 - 153mm)</td>
</tr>
</tbody>
</table>

---

### 3” Carbon Fiber Digital fractional caliper

- 3” (76mm) range
- Lightweight non-marring carbon fiber composite
- Convenient auto-off feature
- Three mode digital display: Decimal inches, fractional inches and millimeters
- Inside, outside, & step measurements
- Accuracy: +/- 0.001”, +/- 0.02mm
- Power Source: 1 “SR54” (1.5V) battery

<table>
<thead>
<tr>
<th>UPC</th>
<th>NO.</th>
<th>RANGE</th>
</tr>
</thead>
<tbody>
<tr>
<td>01433 7</td>
<td>1433</td>
<td>0 - 3” (0 - 76mm)</td>
</tr>
</tbody>
</table>

---

“Precision, Specialty and Innovation . . . Since 1922” T-95
### Specialty Tools

**Dial Calipers**

General's high quality, easy-to-read Dial Calipers give precise readings – Inside, Outside, Depth and Step measurements. The 6" Plastic Dial Caliper is made of fiberglass reinforced plastic and gives precision measurements at an economical price. The 6" Dial Caliper is a stainless steel construction for greater accuracy and durability.

#### 6" Dial Caliper

- Stainless steel construction for accuracy and durability
  - Large, clear dial accurately reads to .001".
- Satin chrome scale with clearly etched tenths of inch graduations
- Covered rack ensures smooth operation by preventing dirt and chips from entering rack and gear mechanism
- Inside, outside, depth and step measurement
- Lock for repetitive measurement
- Free wheeling thumb roller
- Depth stop rod
- Adjustable bezel for zero setting

<table>
<thead>
<tr>
<th>UPC</th>
<th>NO.</th>
</tr>
</thead>
<tbody>
<tr>
<td>10700 8</td>
<td>107</td>
</tr>
</tbody>
</table>

#### 6" Plastic Dial Caliper, Inches Readout

Wherever precision spatial measurements are needed

- FRP construction offers precision measurements at an economical price
- Maximum length: 6 in.
- Easy-to-read dial with no-glare lens cover is color-coded to highlight graduations of both 0.01 in. and 1/64 in.
- Inside, outside, depth and step measurements
- Bar has inch and mm graduations on the front and a fractional conversion table on the back

<table>
<thead>
<tr>
<th>UPC</th>
<th>NO.</th>
</tr>
</thead>
<tbody>
<tr>
<td>44145 4</td>
<td>142</td>
</tr>
</tbody>
</table>

#### 6" Plastic Dial Caliper, Thousandths Reading, Single Revolution

- Capacity 0 to 6"
- Readings in .001"
  - Single revolution of dial is .100"
  - Resolution .001"
- 6" scale is graduated in tenths/mm
- Non-glare dial with adjustable bezel
- Packed in reusable plastic hang-up case
- Inside, outside, depth and step measurements
- Freewheeling friction roller for repetitive and accurate readings

<table>
<thead>
<tr>
<th>UPC</th>
<th>NO.</th>
</tr>
</thead>
<tbody>
<tr>
<td>44150 8</td>
<td>145</td>
</tr>
</tbody>
</table>

#### 150mm Plastic Dial Caliper, Metric Readout

Wherever precision spatial measurements are needed

- FRP construction offers precision measurements at an economical price
- Maximum length: 150mm
- Large, clear dial accurately reads to 0.001mm
- Easy-to-read dial with no-glare lens
- Inside, outside, depth and step measurements
- Bar has inch and mm graduations on the front and a fractional conversion table on the back

<table>
<thead>
<tr>
<th>UPC</th>
<th>NO.</th>
</tr>
</thead>
<tbody>
<tr>
<td>44148 5</td>
<td>144MM</td>
</tr>
</tbody>
</table>
Slide Calipers come in different styles - Electronic Digital Calipers, Mechanical Dial Calipers, Vernier Calipers and Plain Slide Calipers. General’s all-purpose Slide Calipers, sized to slip into your pocket, can make quick, accurate, inside and outside diameter measurements.

**METRIC AND ENGLISH VERNIER CALIPER**
- Graduated in mm and 16ths of an inch with vernier reading of .1mm and 1/128”
- Economical steel vernier calipers have 5” (125mm) capacity
- Inside and outside jaws and full length depth gage
- Caliper has inside, outside, depth and step measurement
- Caliper has lock for repetitive measurement
- Friction roller adjustment
- Slide lock for gaging

<table>
<thead>
<tr>
<th>UPC</th>
<th>NO.</th>
<th>GRADS</th>
</tr>
</thead>
<tbody>
<tr>
<td>72200</td>
<td>3</td>
<td>722</td>
</tr>
</tbody>
</table>

**POCKET CALIPER**
- Stainless steel slide caliper with inside and outside readings in metric and inches
- Decimal equivalents on back
- Scale has etched and filled graduations
- 3” (76mm) capacity

<table>
<thead>
<tr>
<th>UPC</th>
<th>NO.</th>
<th>GRADS</th>
</tr>
</thead>
<tbody>
<tr>
<td>44136</td>
<td>2</td>
<td>132ME</td>
</tr>
</tbody>
</table>

**4-INCH SLIDE CALIPERS**
- Stainless steel caliper with inside and outside readings in 16ths and 32nds
- Decimal equivalents table on back
- Scale has etched and filled graduations
- 4” (102mm) capacity

<table>
<thead>
<tr>
<th>UPC</th>
<th>NO.</th>
<th>GRADS</th>
</tr>
</thead>
<tbody>
<tr>
<td>42581</td>
<td>2</td>
<td>729</td>
</tr>
<tr>
<td>42594</td>
<td>2</td>
<td>729ME</td>
</tr>
</tbody>
</table>

**POCKET CALIPER**
- Precision made high strength, fiberglass reinforced plastic caliper
- Opens to 3” (76mm) outside measurement capacity
- 4” (102mm) rule graduated in 16ths on back
- Inside and outside readings graduated in 32nds and mm

<table>
<thead>
<tr>
<th>UPC</th>
<th>NO.</th>
<th>GRADS</th>
</tr>
</thead>
<tbody>
<tr>
<td>44139</td>
<td>3</td>
<td>141ME</td>
</tr>
</tbody>
</table>

“Precision, Specialty and Innovation . . . Since 1922” T-97
SPECIALTY TOOLS
Measuring/Marking Kits

The "Measure 'N Mark" is a pocket pen with a 3 foot removable tape measure. A handy little pen tool for those on the go. The Precision Measuring Kit contains four of the most useful measuring and marking tools for mechanics and machinists: Micrometer, Dial Caliper, 6" Steel Rule and Carbide Scriber.

POCKET PEN WITH REMOVABLE TAPE MEASURE
- 3' (914mm) removable tape measure
- Pen with comfort grip
- Convenient pocket clip
- Great for high-traffic areas like checkout counters and end-cap shelving
- Available only as a 15-piece counter display

UPC NO.
02126 8 309CD Countertop Display 15 pieces
(Sold only as a counter display - see Page T-125 for display)

PRECISION MEASURING KIT
- This kit contains four of the most useful measuring and marking tools for mechanics or machinists
- Kit includes: No. 102, 0 to 1" micrometer; No. 145, 0 to 6" thousandths reading dial caliper; No. 676, 6" rigid stainless steel rule graduated in 8ths, 16ths, 32nds, and 64ths; No. 88CM, tungsten carbide scriber with magnetic pickup
- Packaged in sturdy, fitted, blow molded case designed specifically for these tools
- Instructions and conversion table (fractions to decimals to millimeters) included

UPC NO.
34106 8 S004

ECONOMY PLUNGER DIAL INDICATOR
- Large 2-1/4" (57mm) diameter dial indicator
- Accuracy to .001"
- Dial is continuous and may be rotated for setting at any point
- Full 1" travel
- Revolution accumulator counter
- Direct decimal two-way reading left and right
- Adjustable limit indicators
- Lug mount standard

UPC NO. READINGS
10900 2 109 0 to .001" by .001"

POCKET PROTECTOR TOOL/MARKING KIT
- This handy pocket size tool kit is designed for the mechanic, machinist or hobbyist
- The kit contains four of General's best selling tools: No. 300/1, 6" rule; No. 383NX, telescoping magnetic pickup; No. 87, automatic center punch and No. 88, scriber
- All tools packaged in vinyl pocket protector which can be snapped closed

UPC NO. KIT INCLUDES ONE EACH:
34112 9 S008 6" rule, magnetic pickup, automatic center punch, scriber

SPECIALTY TOOLS
General's LumiLENS™ Lighted Magnifier puts the light directly on your subject to be viewed. With its powerful extra bright LED light you will never be left in the dark again. Two lens magnifications, 3x and 6x, as well as an integrated stand for Hands-Free use make this tool a must in laboratory quality control, inspection and assembly functions.

4" POWER POCKET ILLUMINATED MAGNIFIER
- Handy 4 power magnifier has plastic body and lens
- Power Source: "AAA" batteries and No. 222 bulb (included)

<table>
<thead>
<tr>
<th>UPC</th>
<th>NO.</th>
<th>POWER</th>
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</thead>
<tbody>
<tr>
<td>42456 3</td>
<td>553</td>
<td>4</td>
</tr>
</tbody>
</table>

4" ILLUMINATED MAGNIFIER
- 4" diameter with three power lens covers large areas of print
- Five power bifocal lens insert gives even greater magnification
- Bulb gives wide circle of illumination
- Plastic body and optical plastic lens
- Power Source: 2 "C" batteries (not included)

<table>
<thead>
<tr>
<th>UPC</th>
<th>NO.</th>
<th>POWER</th>
<th>FOCAL LENGTH</th>
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</thead>
<tbody>
<tr>
<td>42462 4</td>
<td>554</td>
<td>3.0</td>
<td>3-1/2&quot;</td>
</tr>
<tr>
<td></td>
<td></td>
<td>5.0</td>
<td>2&quot;</td>
</tr>
</tbody>
</table>

LumiLENS™ LIGHTED MAGNIFIER
- Push On / Push Off Powerful LED light
- Contoured Handle for Handheld Use
- Integrated Stand for Hands-Free Use
- Shatter-Resistant Lens
- 3-1/2" Lens Diameter (89mm)
- 3X Magnification (6X Inset lens)
- Power Source: 2 "AA" batteries (included)

Includes - Protective pouch

<table>
<thead>
<tr>
<th>UPC</th>
<th>NO.</th>
</tr>
</thead>
<tbody>
<tr>
<td>26001 7</td>
<td>800543</td>
</tr>
</tbody>
</table>
General’s Magnifiers are used by toolmakers, jewelers, instrument assemblers, laboratory technicians, engineers, mechanics and inspectors who need sharp clear magnification without eyestrain. The Illuminated Magnifier is designed for demanding jobs in laboratory quality control, inspections and assembly functions. The Illuminated Magnifier is of the highest optical quality and offers fine resolution.

**Magnifiers**

**Glass Magnifiers**
- Polished optical glass lens with a metal frame
- Versa-Grip™ Handle with non-slip cushion grip
- Full range of sizes from 2" (50mm) to 4-1/2" (115mm)
- Round lens is distortion free
- A powerful magnifier for working in confined or obstructed spaces
- Designed for demanding jobs in laboratory quality control, inspection and assembly functions
- Used by engineers, mechanics, inspectors, lab technicians, toolmakers, instrument assemblers, jewelers, do-it-yourselfers, hobby and crafts people

<table>
<thead>
<tr>
<th>UPC</th>
<th>NO.</th>
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<th>POWER</th>
<th>FOCAL LENGTH</th>
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</thead>
<tbody>
<tr>
<td>00540</td>
<td>3</td>
<td>2&quot; (50mm)</td>
<td>1.6</td>
<td>6&quot;</td>
</tr>
<tr>
<td>50541</td>
<td>5</td>
<td>2-1/2&quot; (65mm)</td>
<td>1.6</td>
<td>6&quot;</td>
</tr>
<tr>
<td>50542</td>
<td>2</td>
<td>3&quot; (75mm)</td>
<td>1.6</td>
<td>6&quot;</td>
</tr>
<tr>
<td>50543</td>
<td>9</td>
<td>3-1/2&quot; (90mm)</td>
<td>1.25</td>
<td>8&quot;</td>
</tr>
<tr>
<td>50544</td>
<td>6</td>
<td>4&quot; (100mm)</td>
<td>1.25</td>
<td>8&quot;</td>
</tr>
<tr>
<td>50545</td>
<td>3</td>
<td>4-1/2&quot; (115mm)</td>
<td>1.25</td>
<td>8&quot;</td>
</tr>
</tbody>
</table>

**2" Magnifier**
- Economical and versatile magnifier for laboratory and industrial uses, for do-it-yourselfers, mechanics and inspectors
- 2" diameter with four power lens
- Lightweight, durable 1-piece molded plastic frame

<table>
<thead>
<tr>
<th>UPC</th>
<th>NO.</th>
<th>POWER</th>
<th>FOCAL LENGTH</th>
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</thead>
<tbody>
<tr>
<td>42414</td>
<td>3</td>
<td>4</td>
<td>2&quot;</td>
</tr>
</tbody>
</table>

**Rectangular Illuminated Magnifier**
- Lens measures 2" x 4" for distortion-free magnification of large areas
- Reversible light reflector adapts for right- or left-hand use
- 2.5 power shatterproof lens, with 5 power bifocal insert
- Replaceable bulb
- 2 “AA” batteries (included)

<table>
<thead>
<tr>
<th>UPC</th>
<th>NO.</th>
<th>POWER</th>
<th>FOCAL LENGTH</th>
</tr>
</thead>
<tbody>
<tr>
<td>42509</td>
<td>6</td>
<td>2.5</td>
<td>4&quot;</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Bifocal</td>
<td>5.0</td>
</tr>
</tbody>
</table>
General's Magnifiers are used by toolmakers, jewelers, instrument assemblers, laboratory technicians, engineers, mechanics and inspectors who need sharp clear magnification without eyestrain. These magnifiers are designed for demanding jobs in laboratory quality control, inspections and assembly functions. Our magnifiers are of the highest optical quality and offer fine resolution.

### 2.5 POWER POCKET MAGNIFIER
- Has 2.5 power ground and polished optical glass
- Folds into case for storage

<table>
<thead>
<tr>
<th>UPC</th>
<th>NO.</th>
<th>POWER</th>
<th>FOCAL LENGTH</th>
</tr>
</thead>
<tbody>
<tr>
<td>42400</td>
<td>6</td>
<td>532</td>
<td>4&quot;</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Black Leather case**

### EYE LOUPE
- For toolmakers, jewelers, instrument assemblers and others who need sharp, clear magnification without eyestrain
- Clear optical glass lens is ground and polished
- 1” diameter lens

<table>
<thead>
<tr>
<th>UPC</th>
<th>NO.</th>
<th>POWER</th>
<th>FOCAL LENGTH</th>
</tr>
</thead>
<tbody>
<tr>
<td>42339</td>
<td>9</td>
<td>527</td>
<td>2&quot;</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### FOLDING POCKET MAGNIFIERS
- Fine quality magnifiers for laboratory technicians, engineers, mechanics and inspectors
- Case and lens rims are made of black molded plastic
- Available in single lens and double lens models

<table>
<thead>
<tr>
<th>UPC</th>
<th>NO.</th>
<th>MOD.</th>
<th>TOT.</th>
<th>LEN.</th>
<th>POW.</th>
<th>DIA.</th>
<th>LENGTH</th>
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</thead>
<tbody>
<tr>
<td>42403</td>
<td>7</td>
<td>Sing.</td>
<td>4.0</td>
<td>4.0</td>
<td>1&quot;</td>
<td>2.5&quot;</td>
<td></td>
</tr>
<tr>
<td>42409</td>
<td>9</td>
<td>Dble.</td>
<td>4.0</td>
<td>8.0</td>
<td>1&quot;</td>
<td>1.25&quot;</td>
<td></td>
</tr>
<tr>
<td>42412</td>
<td>9</td>
<td>Dble.</td>
<td>3.0</td>
<td>6.0</td>
<td>1-1/4&quot;</td>
<td>1.6&quot;</td>
<td></td>
</tr>
</tbody>
</table>

### BINOCULAR MAGNIFIER
- For assemblers and inspectors of electronic and other small or subminiature parts, toolmakers, jewelers and engravers
- Leaves hands free to work
- Ground and polished optical lenses eliminate eyestrain
- Tilt-up lens frame
- Fits over prescription glasses

<table>
<thead>
<tr>
<th>UPC</th>
<th>NO.</th>
<th>POWER</th>
<th>FOCAL LENGTH</th>
</tr>
</thead>
<tbody>
<tr>
<td>43734</td>
<td>1</td>
<td>950-5</td>
<td>8&quot;</td>
</tr>
</tbody>
</table>
The Mini-Light has an LED light bulb which has a life of 100,000 hours of continuous use. These lights require 4 "LR41" batteries which have a life of 48 continuous hours. The Mini's come with either a telescoping handle which extends up to 28-3/4" (720mm) or with an alligator clip which clips on anything, anytime, anywhere for instant, direct light.

**Lighted Mirrors & Mini-Lights**

**Lighted Rectangular Inspection Mirror**
- 2 Extra bright LED lights facilitate the inspection of hard-to-see and hard-to-reach areas
- Ideal for toolmakers, machinists, inspectors and mechanics
- Fully polished glass mirror is shatter-resistant
- 2 "CF2032" batteries included
- 360° Swivel double ball joint

<table>
<thead>
<tr>
<th>UPC</th>
<th>NO.</th>
<th>SIZE</th>
<th>OVERALL LENGTH</th>
</tr>
</thead>
<tbody>
<tr>
<td>02146</td>
<td>5</td>
<td>80560</td>
<td>2&quot; x 3&quot;</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>12-1/4&quot;, extends to 33&quot;</td>
</tr>
</tbody>
</table>

**Lighted Round Inspection Mirror**
- New round head LED inspection mirror gets into tight places and its diffused LED bulbs spread light evenly over the viewing area.
- Ideal for toolmakers, machinists, inspectors and mechanics
- Fully polished glass mirror is shatter-resistant
- 2 "CF2032" batteries included
- 360° Swivel double ball joint

<table>
<thead>
<tr>
<th>UPC</th>
<th>NO.</th>
<th>SIZE</th>
<th>OVERALL LENGTH</th>
</tr>
</thead>
<tbody>
<tr>
<td>80557</td>
<td>7</td>
<td>80557</td>
<td>1.85&quot; dia&quot;</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>11-1/2&quot;, extends to 34&quot;</td>
</tr>
</tbody>
</table>

**"Lite-It" Clip-on Mini-Light**
- Clips on to anything, anytime, anywhere for instant, direct light
- Light is fastened to a rugged high-impact ABS plastic Alligator Clip with a double ball joint that adjusts to any angle
- Four Alkaline, "LR41", batteries with a battery life of 48 continuous hours
- LED bulb has a life of 100,000 hours of continuous use

<table>
<thead>
<tr>
<th>UPC</th>
<th>NO.</th>
<th>PKG.</th>
</tr>
</thead>
<tbody>
<tr>
<td>58001</td>
<td>6</td>
<td>580</td>
</tr>
</tbody>
</table>

**Telescoping Mini-Light with Magnetic Pick-Up**
- Mini Light with 2 lb. Neodymium Magnetic pick-up are both fastened to a stainless steel telescoping wand molded into a rugged high-impact ABS plastic handle
- Telescopes from 7-3/4" – 28-3/4" (197mm – 720mm)
- Four Alkaline, "LR41", batteries with a battery life of 48 continuous hours
- LED bulb has a life of 100,000 hours of continuous use
- Has a 2 lb. smooth surface pull capacity Neodymium donut magnet
- Precision engineered 750 Series Versa-Grip™ handle for maximum performance

<table>
<thead>
<tr>
<th>UPC</th>
<th>NO.</th>
<th>PKG.</th>
</tr>
</thead>
<tbody>
<tr>
<td>75966</td>
<td>5</td>
<td>759581</td>
</tr>
<tr>
<td>75967</td>
<td>2</td>
<td>759582</td>
</tr>
</tbody>
</table>

**Telescoping Mini-Lite with Magnetic Pick-Up**
- A powerful permanent magnetic pick-up tool
- Ideal for retrieving steel and iron parts from hard-to-reach and see work areas
- Magnet is fitted in a 5-1/2" (140mm) long ergonomically designed handle
- Four Alkaline, "LR41", batteries with a battery life of 48 continuous hours
- Light Bulb has a life of 100,000 hours of continuous use
- Mini-Light is fastened to a chrome plated brass wand with a double ball joint
- Ball and socket feature for simple, positive adjustments

<table>
<thead>
<tr>
<th>UPC</th>
<th>NO.</th>
<th>PKG.</th>
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</thead>
<tbody>
<tr>
<td>05820</td>
<td>1</td>
<td>582</td>
</tr>
</tbody>
</table>
Inspection Mirrors facilitate inspection of inaccessible workpieces and machines by toolmakers, assemblers, inspectors and mechanics. Fully polished mirrors are enclosed in plated holders which are attached to knurled handles with ball and socket joints. Telescoping arms and vinyl cushion grip handles are offered on some mirrors.

**GLASS INSPECTION MIRRORS**
- These mirrors facilitate inspection of inaccessible workpieces and machines by toolmakers, assemblers, inspectors and mechanics.
- Fully polished glass mirrors are enclosed in plated holders which are attached to knurled handles with ball and socket joints.
- Nos. 557, 577, 560, and 570 have telescoping arms and vinyl cushion grip handles.

<table>
<thead>
<tr>
<th>UPC</th>
<th>NO.</th>
<th>SIZE</th>
<th>OVERALL LENGTH</th>
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</thead>
<tbody>
<tr>
<td>42465</td>
<td>555</td>
<td>1-1/4&quot; dia.</td>
<td>8&quot;</td>
</tr>
<tr>
<td>42468</td>
<td>557</td>
<td>2-1/4&quot; dia.</td>
<td>10-1/2&quot;, extends to 15&quot;</td>
</tr>
<tr>
<td>42471</td>
<td>558</td>
<td>1&quot; x 2&quot; oval</td>
<td>9&quot;</td>
</tr>
<tr>
<td>42473</td>
<td>560</td>
<td>3-1/2&quot; x 2&quot;</td>
<td>11-1/2&quot;, extends to 16&quot;</td>
</tr>
</tbody>
</table>

**ACRYLIC PLASTIC INSPECTION MIRRORS**

<table>
<thead>
<tr>
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<th>OVERALL LENGTH</th>
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<tbody>
<tr>
<td>42480</td>
<td>577</td>
<td>2-1/4&quot; dia.</td>
<td>10-1/2&quot; – 15&quot;</td>
</tr>
<tr>
<td>42477</td>
<td>570</td>
<td>3-1/2&quot; x 2&quot;</td>
<td>11-1/2&quot; – 16&quot;</td>
</tr>
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</table>

**REPLACEMENT MIRRORS WITH FRAMES**

<table>
<thead>
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<th>UPC</th>
<th>NO.</th>
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<th>OVERALL LENGTH</th>
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<tbody>
<tr>
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<td>557RMF</td>
<td>for No. 557</td>
<td></td>
</tr>
<tr>
<td>42484</td>
<td>560RMF</td>
<td>for No. 560 and No. M8560</td>
<td></td>
</tr>
</tbody>
</table>

**METAL INSPECTION “FLAME” MIRRORS**
- Includes plastic protective sheath
- Heavy-duty construction

<table>
<thead>
<tr>
<th>UPC</th>
<th>NO.</th>
<th>SIZE</th>
<th>OVERALL LENGTH</th>
</tr>
</thead>
<tbody>
<tr>
<td>05531</td>
<td>5561</td>
<td>1-1/4&quot; x 2&quot;</td>
<td>9-3/4&quot;, extends to 26&quot;</td>
</tr>
<tr>
<td>05562</td>
<td>5562</td>
<td>2&quot; x 3-3/4&quot;</td>
<td>10-3/4&quot;, extends to 26&quot;</td>
</tr>
<tr>
<td>05563</td>
<td>5563</td>
<td>3-3/4&quot; dia.</td>
<td>9-3/4&quot;, extends to 26&quot;</td>
</tr>
</tbody>
</table>

**LONG TELESCOPING INSPECTION MIRROR**
- Handle has black cushion grip
- Non-slip grip
- Mirror size: 2" diameter
- 36" telescoping

<table>
<thead>
<tr>
<th>UPC</th>
<th>NO.</th>
</tr>
</thead>
<tbody>
<tr>
<td>05590</td>
<td>559</td>
</tr>
</tbody>
</table>
**SPECIALTY TOOLS**

**Inspection Mirrors**

Inspection Mirrors facilitate inspection of inaccessible workpieces and machines by toolmakers, assemblers, inspectors and mechanics. Fully polished mirrors are enclosed in plated holders which are attached to ergonomically designed handles with ball and socket joints.

**2” X 3” RECTANGULAR PLASTIC TELESCOPING MIRROR**
- For the inspection of obstructed and hard to see objects
- High performance 2” x 3” (51mm x 76mm) rectangular Lexan™ mirror resists scratching and shattering

**9-1/2” ROUND TELESCOPING 3X POWER MAGNIFYING MIRROR**
- For the inspection of obstructed and hard to see objects
- High quality 2-1/2” (64mm) diameter magnifying glass mirror improves visibility

**MAGNETIC BASE INSPECTION MIRROR**
- Adjustable 3-1/2” x 2” oblong glass inspection mirror mounted to a permanent magnet
- Attaches to any steel or iron machine, tool, appliance or other equipment
- Has wing nut ball joint adjustment
TELESCOPING Speed-Chuck™ INSPECTION SETS

- Stainless Steel Speed-Chuck™ and telescoping wand combination provides quick and limitless inspection and retrieval solutions
- Ergonomically designed handle with contoured head for greater control and comfort
- Handle telescopes from 6-3/8" (163mm) to 26" (660mm)
- Spring-loaded Speed-Chuck™ allows blade changes instantly
- All attachments are fastened to a stainless steel Speed-Chuck™ adapter with a double ball joint, adjusts to any angle
- Precision Locking System firmly holds blades in place
- Available attachments:
  - Neodymium magnets: 2 lb., 5 lb. and 10 lb. smooth surface pull capacities
  - Mirrors & Magnifiers: 1-1/2" (38mm) diameter • 2" x 3" (51mm x 76mm) rectangular mirror • 2-3/8" (60mm) dia. 3x power magnifying mirror • 2-1/2" (64mm) dia. 3x power magnifier;
  - Alligator clip • Mini-Lite
- All sets are securely and safely protected within a fitted zippered case

5-PIECE TELESCOPING "SPEED-CHUCK™" INSPECTION SET

- Set includes: • 26" stainless steel telescoping wand with Speed-Chuck™ assembly • 5 lb. magnetic pick-up
  - 2" x 3" rectangular plastic mirror
  - 3x power magnifier, alligator clip • Mini-Lite. Batteries included
  - Precision engineered 750 Series Versa-Grip™ handle for maximum performance

<table>
<thead>
<tr>
<th>UPC</th>
<th>NO.</th>
<th>PKG.</th>
</tr>
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<tbody>
<tr>
<td>75961</td>
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<td>759905 Zippered Case/Boxed</td>
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</tbody>
</table>

9-PIECE TELESCOPING "SPEED-CHUCK™" INSPECTION SET

- Set includes: • 26" stainless steel telescoping wand with Speed-Chuck™ assembly
  - 2 lb., 5 lb. and 10 lb. magnetic pick-ups
  - 1-1/2" round mirror • 2" x 3" rectangular mirror • 2-1/2" round glass magnifying mirror
  - 3x power magnifier, alligator clip • Mini-Lite • Batteries included
  - Precision engineered 750 Series Versa-Grip™ handle for maximum performance

<table>
<thead>
<tr>
<th>UPC</th>
<th>NO.</th>
<th>PKG.</th>
</tr>
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<tbody>
<tr>
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<td>759909 Zippered Case/Boxed</td>
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</tbody>
</table>

FIXED LENGTH MAGNETIC PICK-UP, 2 LB. PULL

- Has a 2 lb. smooth surface magnetic pull capacity with an overall length of 6-3/4" (171mm)
- High strength stainless steel shaft resists corrosion
- Durable ball joint connection permits infinite angle adjustments
- High powered neodymium magnet is six times stronger than standard Cobalt Magnets
- Magnet holder is made of high-strength reinforced nylon
- Precision engineered 750 Series Versa-Grip™ handle for maximum performance

<table>
<thead>
<tr>
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<th>NO.</th>
<th>PKG.</th>
</tr>
</thead>
<tbody>
<tr>
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<td>709392 Carded</td>
</tr>
</tbody>
</table>
### Magnetic Retrieving Tools

#### TELESOPCING MAGNETIC PICK-UPS
- High powered 2 lb., 5 lb., 10 lb. Neodymium magnets are 6 times stronger than standard Cobalt magnets
- Double ball joint connection permits infinite angle adjustments
- High strength corrosion resistant stainless steel wand extends from 6-1/2” - 27” (165mm – 686mm)

<table>
<thead>
<tr>
<th>UPC</th>
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<th>PULL</th>
<th>PKG.</th>
</tr>
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<tbody>
<tr>
<td>75933</td>
<td>7</td>
<td>2 lb.</td>
<td>Carded</td>
</tr>
<tr>
<td>75939</td>
<td>9</td>
<td>10 lb.</td>
<td>Carded</td>
</tr>
</tbody>
</table>

#### POCKET MAGNETIC PICK-UP
- Powerful permanent magnet in a knurled aluminum holder with handy pocket clip
- High-powered neodymium magnet is six times more powerful than standard magnet
- Ideal for retrieving small steel and iron parts from hard-to-reach areas

<table>
<thead>
<tr>
<th>UPC</th>
<th>NO.</th>
<th>MAGNET</th>
<th>PULL</th>
</tr>
</thead>
<tbody>
<tr>
<td>42219</td>
<td>386</td>
<td>NEO</td>
<td>2 lb. pull</td>
</tr>
</tbody>
</table>

#### FLEX-O-STIFF MAGNETIC PICK-UP
- An ideal tool for retrieving steel parts from hard-to-reach places
- High-powered neodymium magnet is six times more powerful than standard magnet
- Permanent magnetic power

<table>
<thead>
<tr>
<th>UPC</th>
<th>NO.</th>
<th>MAGNET</th>
<th>PULL</th>
</tr>
</thead>
<tbody>
<tr>
<td>42210</td>
<td>384N</td>
<td>NEO</td>
<td>2 lb. pull</td>
</tr>
</tbody>
</table>

#### MAGNETIC PICK-UP WITH PIVOT JOINT
- An excellent tool for retrieving small steel parts from hard-to-reach places
- High-power neodymium magnet lifts up to two pounds and will never lose its magnetism
- 8-3/4” (222mm) overall length

<table>
<thead>
<tr>
<th>UPC</th>
<th>NO.</th>
<th>PULL</th>
</tr>
</thead>
<tbody>
<tr>
<td>42224</td>
<td>392</td>
<td>2 lb. pull</td>
</tr>
</tbody>
</table>

#### EXTRA-LONG, MAGNETIC PICK-UP WITH PIVOT JOINT
- An excellent tool for retrieving steel parts from hard-to-reach places
- High-power neodymium magnet lifts up to five pounds and will never lose its magnetism
- Steel body measures 13” (330mm) and can be extended to 27” (685mm)

<table>
<thead>
<tr>
<th>UPC</th>
<th>NO.</th>
<th>PULL</th>
</tr>
</thead>
<tbody>
<tr>
<td>42228</td>
<td>394</td>
<td>5 lb. pull</td>
</tr>
</tbody>
</table>
**BENDABLE MAGNETIC PICK-UP**
- An excellent tool for retrieving steel parts from hard-to-reach places
- High-power neodymium magnet
- Knurled aluminum body with bendable 15” (381mm) wire
- Overall length is 20” (508mm)
- Lifts up to 2 pounds

<table>
<thead>
<tr>
<th>UPC</th>
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<th>PULL</th>
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<tbody>
<tr>
<td>42229</td>
<td>395</td>
<td>2 lb. pull</td>
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</table>

**TELESCOPING MAGNETIC PICK-UP**
- A powerful permanent magnetic pickup tool
- Ideal for retrieving steel and iron parts from hard-to-reach work areas
- Magnet is fitted in a 5-1/2” long nickel plated steel handle that can extend up to 23-1/2”
- Holder is fitted with a pocket-clip

<table>
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<tr>
<th>UPC</th>
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<th>PULL</th>
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</thead>
<tbody>
<tr>
<td>42208</td>
<td>383NX</td>
<td>2 lb. pull</td>
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</tbody>
</table>

**TELESCOPING MINI-LIGHTS WITH AND WITHOUT MAGNETIC PICK-UP**
- Mini Light with 2 lb. neodymium magnetic pick-up are both fastened to a stainless steel telescoping wand molded into a rugged high-impact ABS plastic handle
- Telescopes from 7-3/4” – 28-3/4” (197mm – 720mm)
- 4 Alkaline, “LR41”, batteries with a battery life of 48 continuous hours
- LED bulb has a life of 100,000 hours of continuous use

<table>
<thead>
<tr>
<th>UPC</th>
<th>NO.</th>
<th>PKG.</th>
</tr>
</thead>
<tbody>
<tr>
<td>75966</td>
<td>759581</td>
<td>Carded (light only)</td>
</tr>
<tr>
<td>75967</td>
<td>759582</td>
<td>Carded (light &amp; magnetic pick-up)</td>
</tr>
</tbody>
</table>

**TELESCOPING MINI-LITE WITH MAGNETIC PICK-UP**
- A powerful permanent magnetic pick-up tool
- Ideal for retrieving steel and iron parts from hard-to-reach and see work areas
- Magnet is fitted in a 5-1/2” (140mm) long ergonomically designed handle
- 4 Alkaline, “LR41”, batteries with a battery life of 48 continuous hours
- Light Bulb has a life of 100,000 hours of continuous use

<table>
<thead>
<tr>
<th>UPC</th>
<th>NO.</th>
<th>PKG.</th>
</tr>
</thead>
<tbody>
<tr>
<td>05820</td>
<td>582</td>
<td>Carded</td>
</tr>
</tbody>
</table>

**PRECISION MAGNETIZER/DEMAGNETIZER**
- Magnetize and demagnetize screwdrivers, tweezers, tool bits and other steel objects
- Magnetize by sliding the tool through the (+) opening
- Demagnetize by sliding the tool through the (-) opening
- Demagnetize tools for use in electronics
- Step design permits greater control of magnetism

<table>
<thead>
<tr>
<th>UPC</th>
<th>NO.</th>
<th>DIMENSIONS</th>
</tr>
</thead>
<tbody>
<tr>
<td>36010</td>
<td>3601</td>
<td>2” x 2” x 1-1/8” (58 x 58 x 29mm)</td>
</tr>
</tbody>
</table>

**MAGNETIZER/DEMAGNETIZER**
- Specially designed for magnetizing and demagnetizing screwdrivers, nut drivers, wrenches, taps and small tools
- Converts any tool blade into a magnetic retriever for screws, nuts and metallic particles

<table>
<thead>
<tr>
<th>UPC</th>
<th>NO.</th>
<th>DIMENSIONS</th>
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</thead>
<tbody>
<tr>
<td>42021</td>
<td>360</td>
<td>1” x 1” x 1-3/4” (25 x 25 x 44mm)</td>
</tr>
</tbody>
</table>

“Precision, Specialty and Innovation . . . Since 1922”
The Magnetic Sweeper is an ideal tool for retrieving iron, steel and all ferrous materials. Especially effective around new construction sites, both indoors and outdoors. Also effective in machine shops for cleaning up around power equipment such as drill presses, milling machines and lathes.

**PICK-UP STICK™ SWEeper**
- An ideal tool for retrieving iron, steel and all ferrous materials
- Powerful, permanent magnet for a no-stoop pick-up
- Vinyl-coated magnet for long-life and durability

**UTILITY SWEeper**
- An ideal tool for retrieving iron, steel and all ferrous materials
- Powerful, permanent magnets for a no-stoop pick-up
- 39" (991mm) aluminum shaft
- Plastic handle grip for greater control and comfort

**MAGNETIC STRIPS**
- Our flexible magnetic strip with adhesive backing adheres to most smooth clean surfaces
- Holds small-metal objects
- 1/16" thick and easily cuts to desired length with scissors or knife

**SHALLOW POT CERAMIC MAGNETS**
- Shallow depth permits use in confined spaces
- Nos. 376A and 376B have 3/16" diameter clearance holes for fastening with rods or bolts
- No. 376C has a 9/32" diameter clearance hole
- No. 376D has a 9/32" diameter clearance hole
Aluminum, nickel and cobalt alloy make General’s Alnico line of magnets strong and permanent. The strong magnetic pull of the Alnico Magnets make it perfect for lifting, holding, sorting, clamping or retrieving steel or iron parts. Alnico Magnets will retain their magnetic force indefinitely. Removable keepers insure long life and optimum performance.

BUTTON TYPE ALNICO MAGNETS
- Button shaped magnet has almost unlimited applications
- Retrives screws and steel parts
- Center hole on top of magnet for easy fastening

<table>
<thead>
<tr>
<th>UPC</th>
<th>NO.</th>
<th>DIAM.</th>
<th>HT.</th>
<th>PULL</th>
<th>CORED HOLE</th>
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</thead>
<tbody>
<tr>
<td>42073 2</td>
<td>372A</td>
<td>1/2&quot;</td>
<td>3/8&quot;</td>
<td>1-1/2 lbs.</td>
<td>1/8&quot;</td>
</tr>
<tr>
<td>42076 3</td>
<td>372B</td>
<td>3/4&quot;</td>
<td>1/2&quot;</td>
<td>4 lbs.</td>
<td>1/8&quot;</td>
</tr>
<tr>
<td>42079 4</td>
<td>372C</td>
<td>1&quot;</td>
<td>5/8&quot;</td>
<td>6-1/2 lbs.</td>
<td>3/16&quot;</td>
</tr>
<tr>
<td>42082 4</td>
<td>372D</td>
<td>1-1/4&quot;</td>
<td>3/4&quot;</td>
<td>14 lbs.</td>
<td>3/16&quot;</td>
</tr>
<tr>
<td>42085 5</td>
<td>372E</td>
<td>1-1/2&quot;</td>
<td>7/8&quot;</td>
<td>18-1/2 lbs.</td>
<td>1/4&quot;</td>
</tr>
</tbody>
</table>

POT TYPE ALNICO MAGNETS
- Unique combination of strong magnet with insulating ring gives this magnet the superior holding power of larger magnets
- 1/4" diameter x 20 threads-per-inch hole for attaching to fixtures and machines

<table>
<thead>
<tr>
<th>UPC</th>
<th>NO.</th>
<th>DIAM.</th>
<th>PULL</th>
<th>WT.</th>
<th>HT.</th>
</tr>
</thead>
<tbody>
<tr>
<td>42083 0</td>
<td>374A</td>
<td>11/16&quot;</td>
<td>6 lbs.</td>
<td>6 oz.</td>
<td>5/8&quot;</td>
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<tr>
<td>42096 1</td>
<td>374B</td>
<td>13/16&quot;</td>
<td>10 lbs.</td>
<td>6 oz.</td>
<td>3/4&quot;</td>
</tr>
<tr>
<td>42102 9</td>
<td>374C</td>
<td>1-1/16&quot;</td>
<td>18 lbs.</td>
<td>12 oz.</td>
<td>1&quot;</td>
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<tr>
<td>42105 0</td>
<td>374D</td>
<td>1-3/8&quot;</td>
<td>35 lbs.</td>
<td>24 oz.</td>
<td>1-3/16&quot;</td>
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</tbody>
</table>

POWER ALNICO MAGNETS
- Strong magnetic pull for lifting, holding, sorting, clamping or retrieving steel or iron parts
- Hole in top of magnet for attaching conveyors, racks, and welding jigs

<table>
<thead>
<tr>
<th>UPC</th>
<th>NO.</th>
<th>SIZE</th>
<th>PULL</th>
<th>WIDTH</th>
<th>HT.</th>
<th>DEPTH</th>
<th>POLE WIDTH</th>
<th>OPENING BETWEEN POLES, CORED WITH KEEPER</th>
<th>OZ.</th>
<th>WEIGHT</th>
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<tbody>
<tr>
<td>42041 1</td>
<td>370-1</td>
<td>8</td>
<td>8</td>
<td>1-1/8&quot;</td>
<td>1&quot;</td>
<td>5/16&quot;</td>
<td>5/16&quot;</td>
<td>1/4&quot;</td>
<td>—</td>
<td>1</td>
</tr>
<tr>
<td>42044 2</td>
<td>370-2</td>
<td>2</td>
<td>13</td>
<td>1-1/8&quot;</td>
<td>3/4&quot;</td>
<td>3/4&quot;</td>
<td>1/4&quot;</td>
<td>9/16&quot;</td>
<td>3/16&quot;</td>
<td>3</td>
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<tr>
<td>42050 3</td>
<td>370-4</td>
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<td>22</td>
<td>1-1/2&quot;</td>
<td>1&quot;</td>
<td>1&quot;</td>
<td>5/16&quot;</td>
<td>3/4&quot;</td>
<td>3/16&quot;</td>
<td>5</td>
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<td>42053 4</td>
<td>370-6</td>
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<td>30</td>
<td>1-3/4&quot;</td>
<td>1-1/8&quot;</td>
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<td>7/8&quot;</td>
<td>3/16&quot;</td>
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<td>42056 5</td>
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<td>1-13/16&quot;</td>
<td>15/16&quot;</td>
<td>1/2&quot;</td>
<td>1-3/16&quot;</td>
<td>3/16&quot;</td>
<td>10</td>
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<td>42061 9</td>
<td>370-12</td>
<td>12</td>
<td>42</td>
<td>2-5/8&quot;</td>
<td>2-1/4&quot;</td>
<td>15/16&quot;</td>
<td>5/8&quot;</td>
<td>1-3/8&quot;</td>
<td>3/16&quot;</td>
<td>15</td>
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<td>3/4&quot;</td>
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<td>3/16&quot;</td>
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<td>70</td>
<td>2-1/2&quot;</td>
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<td>1-7/8&quot;</td>
<td>5/8&quot;</td>
<td>1-3/8&quot;</td>
<td>1/4&quot;</td>
<td>28</td>
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</tbody>
</table>

MAGNETIC ADJUSTABLE WELDING LINKS AND WELDING MAGNET
Aluminum, nickel and cobalt give General’s adjustable welding blocks and welding magnet enough magnetic muscle to hold steel plates in position over a lifetime of high-heat operations

WELDING MAGNET
- Welding, brazing, soldering
- Eliminates need for clamps or temporary fasteners

<table>
<thead>
<tr>
<th>UPC</th>
<th>NO.</th>
<th>THICKNESS</th>
<th>PULL LBS.</th>
<th>WT. OR Z.</th>
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<tbody>
<tr>
<td>42122 7</td>
<td>377</td>
<td>.468</td>
<td>50.0</td>
<td>9.0</td>
</tr>
</tbody>
</table>

MAGNETIC ADJUSTABLE WELDING LINK
- Welding, brazing, soldering
- Eliminates need for clamps or temporary fasteners

<table>
<thead>
<tr>
<th>UPC</th>
<th>NO.</th>
<th>SIZE OF BLOCK</th>
<th>PULL PER BLOCK</th>
</tr>
</thead>
<tbody>
<tr>
<td>42226 2</td>
<td>375</td>
<td>2.4&quot; x 1&quot; x 1&quot;</td>
<td>23 lbs.</td>
</tr>
</tbody>
</table>
SPECIALTY TOOLS
Cutting & Carving Tools

General Tools Professional Quality Knife Sets are designed specifically for the precision cutting of a variety of materials, from fine, intricate cutting to heavy-duty carving and scraping. General Tools offers a complete line of precision hobby knives for industrial users, crafts people and hobbyists. A broad selection of surgically sharp replacements and accessory blades are available.

22-PIECE TRI-LOBE PRECISION KNIFE SET
- Advanced Tri-Lobe ergonomic handle design for maximum grip control and cutting accuracy
- Rounded handle fits snugly in palm for added leverage for cutting thicker materials
- Handle design imparts maximum comfort and ease
- Heavy-duty locking screw chuck holds blades securely in place
- Includes protective, hard and durable case

Set includes: 2-Multi-blade handles (#90601 and #95602), One each: No. 1 and No. 2 and 20 assorted knife blades: • 5 - No. 11 • 5 - No. 16 • 3 - No. 17B • 3 – No. 22 • 2 - No. 28

Individual Knives include:
90601 - Tri-Lobe Precision Knife (1 - No. 11 blade)
95602 - Heavy-Duty Precision Knife (1 - 22 blade)

<table>
<thead>
<tr>
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<tr>
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<td>95622</td>
</tr>
<tr>
<td>90601</td>
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<tr>
<td>95602</td>
<td>6</td>
<td>95602</td>
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</tbody>
</table>

PRECISION HOBBY KNIVES
- General’s three aluminum-handled precision hobby knives can cope with a cornucopia of cutting criteria.
- Light industrial, crafts, hobby

1901 - Light-Duty (making fine or angle cuts in wallpaper, cardboard, soft wood and other light materials)
1902 - Medium-Duty (slicing and scoring fiberboard, mat-board, linoleum, etc.)
1903 - Heavy Duty (cardboard, scoring fiberboard, mat-board, linoleum, etc.)

- Handle: Aluminum

<table>
<thead>
<tr>
<th>UPC</th>
<th>NO.</th>
<th>HANDLE CONSTRUCTION</th>
<th>KNIFE WEIGHT</th>
<th>PKG. QTY.</th>
</tr>
</thead>
<tbody>
<tr>
<td>43974</td>
<td>1</td>
<td>Aluminum</td>
<td>Light duty</td>
<td>5</td>
</tr>
<tr>
<td>43976</td>
<td>5</td>
<td>Aluminum</td>
<td>Medium duty</td>
<td>5</td>
</tr>
<tr>
<td>43978</td>
<td>9</td>
<td>Aluminum</td>
<td>Heavy-duty</td>
<td>5</td>
</tr>
</tbody>
</table>

HOBBY KNIFE BLADES
- Light industrial, crafts, hobby
- Packed in a quantity of 5

<table>
<thead>
<tr>
<th>UPC</th>
<th>NO.</th>
<th>REPLACEMENT FOR</th>
</tr>
</thead>
<tbody>
<tr>
<td>43988</td>
<td>8</td>
<td>1920</td>
</tr>
<tr>
<td>43992</td>
<td>5</td>
<td>1922</td>
</tr>
<tr>
<td>43994</td>
<td>9</td>
<td>1923</td>
</tr>
<tr>
<td>43996</td>
<td>3</td>
<td>1924</td>
</tr>
</tbody>
</table>

PRECISION KNIFE SET
- Consists of one each of Nos. 1901, 1902 and 1903 knives and 10 assorted blades in a fitted wooden case

<table>
<thead>
<tr>
<th>UPC</th>
<th>NO.</th>
</tr>
</thead>
<tbody>
<tr>
<td>43984</td>
<td>0</td>
</tr>
</tbody>
</table>

ALWAYS WEAR
OSHA APPROVED
SAFETY GOGGLES

Blades shown actual size

Patent Pending

Packed in a quantity of 5

95602 90601

#16 #28 #17B #11 #22

1901 LIGHT-DUTY
1902 MEDIUM-DUTY
1903 HEAVY-DUTY

1901
1902
1903

1920 1922 1923 1924
General’s classic Utility Knife is used for cutting and scoring fiber-board, matboard, roofing, linoleum, carpeting, plasterboard and veneers.

The Five-Piece Carving Tool Set offers a fixed blade that is forged tool steel, ground and hardened for lasting sharpness. Handles are made of hardwood for greater control and comfort grip.

**SLIDE LOCKING UTILITY KNIFE**
- For cutting and scoring fiberboard, wallboard, matboard, cardboard, corkingboard, roofing, linoleum, carpet, plasterboard, veneers and other materials
- Opens instantly to any one of three cutting positions
- Blade retracts into handle for safety

**HEAVY-DUTY UTILITY KNIFE BLADES**

<table>
<thead>
<tr>
<th>UPC</th>
<th>NO.</th>
<th>THICKNESS</th>
<th>PKG. QTY</th>
</tr>
</thead>
<tbody>
<tr>
<td>43030</td>
<td>852-100</td>
<td>0.025</td>
<td>100</td>
</tr>
</tbody>
</table>

**FIVE-PIECE CARVING TOOL SET**
- Five different blade shapes
- Blades are made of hand forged tool steel, ground and hardened for lasting sharpness
- Half round palm style handles are made of hardwood
- Comes in vinyl case
- Overall length 5”

<table>
<thead>
<tr>
<th>UPC</th>
<th>NO.</th>
<th>BLADE SHAPE</th>
</tr>
</thead>
<tbody>
<tr>
<td>43900</td>
<td>1293</td>
<td>Bent Large Gouge, 5/16”</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Straight Small Gouge, 5/32”</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Bent V Parting Tool, 5/32”</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Straight Skew Chisel, 5/16”</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Bent Square Chisel, 5/16”</td>
</tr>
</tbody>
</table>

**GLASS CUTTER**
- Cuts plate glass from 1/8” to 1/4” thick
- Steel wheel with honed angle of 120° for cutting single and double strength glass
- Ball end handle for snapping of scored glass
- Tooth design to remove rough edges

<table>
<thead>
<tr>
<th>UPC</th>
<th>NO.</th>
<th>LENGTH</th>
</tr>
</thead>
<tbody>
<tr>
<td>43061</td>
<td>8501</td>
<td>5” (125mm)</td>
</tr>
</tbody>
</table>

**JUNIOR HACKSAW**
- Handy cutting tool for hobbyists, do-it-yourselfers and professionals
- Ergonomically designed with a comfortable high-impact plastic handle
- 6” (150 mm) replaceable heat treated blade for cutting metal
- Sturdy tubular frame

- Reversible blade for push or pull cutting
- Set of 6 replacement blades: 3 wood and 3 metal

---

“Precision, Specialty and Innovation . . . Since 1922” T-111
General Tools offers Grommet Kits, which are available in three sizes, Snap Fastener Kits and Screw Fastener Kits. These various kits are used to repair canvas, tarpaulins, tents, awnings, sailcloth, lawn furniture and pool covers. Each set has handy step-by-step instructions.

### Utility Grommet Kits
- These various size kits are used to repair canvas, tarpaulins, tents, awnings, sailcloth, lawn furniture and pool covers.
- Contains grommets with hole cutter and hardwood backer block, hardened mandrel and anvil.
- Setting tool has knurled body for greater comfort and safety.
- Setting tool and anvil are coded with lines for each individual size grommet.
- Three sizes available.

<table>
<thead>
<tr>
<th>Individual Size</th>
<th>Description</th>
<th>UPC</th>
<th>No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>22341 8 71260</td>
<td>1/4&quot; Grommet Kit with 48 grommets</td>
<td></td>
<td></td>
</tr>
<tr>
<td>22342 5 71262</td>
<td>3/8&quot; Grommet Kit with 24 grommets</td>
<td></td>
<td></td>
</tr>
<tr>
<td>22343 2 71264</td>
<td>1/2&quot; Grommet Kit with 12 grommets</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### Grommet Refills
- 1/4" grommet refill with 24 grommets.
- 3/8" grommet refill with 24 grommets.
- 1/2" grommet refill with 24 grommets.

<table>
<thead>
<tr>
<th>UPC</th>
<th>No.</th>
<th>Specifications</th>
</tr>
</thead>
<tbody>
<tr>
<td>41103 7 1261-0</td>
<td>1/4&quot; Grommet Refill with 24 Grommets</td>
<td></td>
</tr>
<tr>
<td>41104 4 1261-2</td>
<td>3/8&quot; Grommet Refill with 24 Grommets</td>
<td></td>
</tr>
<tr>
<td>41105 1 1261-4</td>
<td>1/2&quot; Grommet Refill with 24 Grommets</td>
<td></td>
</tr>
</tbody>
</table>

### Snap Fastener Kit
- Contains 2-piece setting tool and 6 fastener sets.
- Fasteners with nickel plating will not rust.
- Knurled body for greater comfort and safety.

<table>
<thead>
<tr>
<th>UPC</th>
<th>No.</th>
<th>Specifications</th>
</tr>
</thead>
<tbody>
<tr>
<td>41106 8 1265</td>
<td>Snap Fastener Kit with 6 Fasteners</td>
<td></td>
</tr>
<tr>
<td>41107 5 1266</td>
<td>6 Snap Fastener Refills</td>
<td></td>
</tr>
</tbody>
</table>

### Screw Snap Fastener Kit
- Screw snap fastener base has 3/8" long screw for attaching to wood, plastic and fiberglass.
- Contains 2-piece setting tool and 6 fastener sets.
- Fasteners with nickel plating will not rust.
- Knurled body for greater comfort and safety.

<table>
<thead>
<tr>
<th>UPC</th>
<th>No.</th>
<th>Specifications</th>
</tr>
</thead>
<tbody>
<tr>
<td>41108 2 1267</td>
<td>Screw Snap Fastener Kit with 6 Fasteners</td>
<td></td>
</tr>
<tr>
<td>41109 9 1268</td>
<td>6 Screw Snap Fastener Refills</td>
<td></td>
</tr>
</tbody>
</table>
Arch Punches, Hollow Steel Punches and Gasket Punches are all used for punching round holes in gasket material, leather, rubber, canvas, cardboard, plastic, sheet metal and other soft materials. These fine quality tools are forged and heat-treated for long life and the cutting edges will stay sharper longer.

**ARCH PUNCHES, 7PC.**
- For punching holes in leather, rubber, gasket material and soft metals
- Inside taper for clearance
- Heat treated forged steel
- The 1271ST consists of seven punches, one each of 1/4", 3/8", 1/2", 5/8", 3/4", 7/8" and 1", comes in plastic roll pouch

<table>
<thead>
<tr>
<th>UPC</th>
<th>NO.</th>
<th>SIZE</th>
</tr>
</thead>
<tbody>
<tr>
<td>43849</td>
<td>2</td>
<td>1271ST Set of 7</td>
</tr>
</tbody>
</table>

**HOLLOW STEEL PUNCHES, 6PC.**
- For punching holes in leather, rubber, canvas, cardboard, plastic and other materials
- Made of forged steel with side clearance hole for easy removal of punched material
- The 1280ST which consists of six punches, 3/16", 1/4", 5/16", 3/8", 7/16", and 1/2", comes in a plastic roll pouch

<table>
<thead>
<tr>
<th>UPC</th>
<th>NO.</th>
<th>SIZE</th>
</tr>
</thead>
<tbody>
<tr>
<td>43896</td>
<td>6</td>
<td>1280ST Set of 6</td>
</tr>
</tbody>
</table>

**PROFESSIONAL 10-PIECE GASKET PUNCH SET, 10PC.**
- For punching holes in gasket material, leather, rubber, canvas, cardboard, plastic and sheet metal
- Heavy-duty, spring-loaded, self-centering steel mandrel
- Both mandrel and punches are knurled and have a threaded coupling to prevent slippage and hold punch securely to mandrel

<table>
<thead>
<tr>
<th>UPC</th>
<th>NO.</th>
<th>DESCRIPTION</th>
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</thead>
<tbody>
<tr>
<td>43751</td>
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<td>S1274 10 pc. set</td>
</tr>
</tbody>
</table>

**GASKET PUNCH SET**
- Compact and economical set for punching holes in soft materials and leather

<table>
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<th>UPC</th>
<th>NO.</th>
</tr>
</thead>
<tbody>
<tr>
<td>43759</td>
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</tr>
</tbody>
</table>

“Precision, Specialty and Innovation . . . Since 1922”

T-113
SPECIALTY TOOLS

Plier Sets & Descriptions

**8-PIECE TECHNICIAN’S MINI-PLIER SET**
- A compact set designed for electricians, technicians, hobbyists and do-it-yourselfers
- High quality chrome-vanadium steel will not rust
- Serrated jaws for better grip
- Large steel leaf spring for quick opening jaws
- Fully-polished head
- Double dipped cushion grip handles for safe gripping
- Durable vinyl case for the easy and safe storage of these precision pliers
- Consists of eight of the most popular sizes of mini-pliers
  - No. 901 - Chain Nose Serrated Jaw Pliers. OAL - 5”
  - No. 902 - Round Nose Pliers. OAL - 4-3/4”
  - No. 903 - Smooth Jaw Pliers. OAL - 4-7/8
  - No. 904 - Curved Chain Nose Pliers. OAL - 4-3/4”
  - No. 905 - Long Needle Nose Pliers. OAL - 6”
  - No. 906 - Diagonal Head/Oval Cutter. OAL - 4-1/4”
  - No. 907 - End Cutter. OAL - 4-1/8”
  - No. 908 - “Mini” Linemans Pliers. OAL - 4-1/2”
- No. 938 - 8-piece “Mini” Plier Set
- No. 934 - 4-piece “Mini” Plier Set; Nos. 905, 906, 907, 908

<table>
<thead>
<tr>
<th>UPC</th>
<th>NO.</th>
<th>PKG</th>
</tr>
</thead>
<tbody>
<tr>
<td>00938 8</td>
<td>938</td>
<td>8 Piece - Vinyl Case/Boxed</td>
</tr>
<tr>
<td>00934 0</td>
<td>934</td>
<td>4 Piece - Vinyl Case/Boxed</td>
</tr>
</tbody>
</table>

**ROUND NOSE PLIERS**
- The perfect jewelers pliers for making loops and jump rings
- OAL jaw length - 1-1/16” (27mm)
- OAL length - 4-3/4” (120mm)

**CHAIN NOSE, SERRATED JAW PLIERS**
- For cutting, shaping, bending and gripping light materials and wire
- Side cutter will handle most cutting requirements
- OAL jaw length - 1-3/16” (30mm)
- OAL length - 5” (127mm)
Plier Descriptions

**FLAT NOSE, SMOOTH JAW PLIERS**
- For bending wire, jewelry making and retrieving objects from tight areas
- OAL jaw length - 1-1/16” (27mm)
- OAL length - 4-7/8” (124mm)

**FLAT NOSE, SMOOTH JAW PLIERS**
- For cutting soft wire and other light materials.
  - For an accurate cut in tight areas
- OAL jaw length - 1/2” (13mm)
- OAL length - 4-1/4” (108mm)

**CURVED CHAIN NOSE PLIERS**
- Used for odd angle access, retrieving and positioning with non-serrated jaws
- OAL jaw length - 1-1/8” (29mm)
- OAL length - 4-3/4” (120mm)

**CURVED CHAIN NOSE PLIERS**
- Used for odd angle access, retrieving and positioning with non-serrated jaws
- OAL jaw length - 1-1/8” (29mm)
- OAL length - 4-3/4” (120mm)

**OVAL HEAD DIAGONAL CUTTER**
- For cutting soft wire and other light materials.
  - For an accurate cut in tight areas
- OAL jaw length - 1-1/2” (38mm)
- OAL length - 4-1/4” (108mm)

**OVAL HEAD DIAGONAL CUTTER**
- For cutting soft wire and other light materials.
  - For an accurate cut in tight areas
- OAL jaw length - 1-1/2” (38mm)
- OAL length - 4-1/4” (108mm)

**LONG NEEDLE NOSE PLIERS**
- Used for extreme far reaching access, positioning and retrieving
- OAL jaw length - 2-1/8” (54mm)
- OAL length - 6” (152mm)

**LONG NEEDLE NOSE PLIERS**
- Used for extreme far reaching access, positioning and retrieving
- OAL jaw length - 2-1/8” (54mm)
- OAL length - 6” (152mm)

**END CUTTER**
- For accurate flush surface cutting of light materials and wire
- OAL jaw length - 9/32” (7mm)
- OAL length - 4-1/8” (105mm)

**END CUTTER**
- For accurate flush surface cutting of light materials and wire
- OAL jaw length - 9/32” (7mm)
- OAL length - 4-1/8” (105mm)

**“MINI” LINEMAN’S PLIERS**
- For securing a positive grip on flat objects to form a bend
- Serrated jaws for better grip
- Side cutter will handle most cutting requirements
- OAL jaw length - 7/8” (22mm)
- OAL length - 4-1/2” (114mm)

**“MINI” LINEMAN’S PLIERS**
- For securing a positive grip on flat objects to form a bend
- Serrated jaws for better grip
- Side cutter will handle most cutting requirements
- OAL jaw length - 7/8” (22mm)
- OAL length - 4-1/2” (114mm)
### SPECIALTY TOOLS
#### Punches, Strippers & Scrapers

General’s Revolving Punch Plier is a convenient spring tension, self-opening tool for punching round holes in leather, plastic, rubber, canvas, cardboard and similar materials.

The Dial Wire Stripper can be set to a desired size for individual or repetitive stripping without damaging the wire.

---

**REVOLVING PUNCH Plier**
- A convenient spring tension, self-opening tool for punching round holes in leather, plastic, rubber, canvas, cardboard and similar materials
- Made of plated steel with six tapered and hollow, hardened steel punches
- Punch sizes: 5/64", 3/32", 7/64", 1/8", 5/32", 3/16" (2.0, 2.5, 3.0, 3.5, 4.0, 4.5mm)

<table>
<thead>
<tr>
<th>UPC NO.</th>
<th>LENGTH</th>
</tr>
</thead>
<tbody>
<tr>
<td>41039 9</td>
<td>72</td>
</tr>
</tbody>
</table>

**DIAL WIRE STRIPPER**
- Dial the wire size desired for individual or repetitive stripping without damaging wire
- Spring opening for fast and easy cutting or stripping
- Dial lock closes stripper to protect hardened cutting edges
- Vinyl cushion handles

<table>
<thead>
<tr>
<th>UPC NO.</th>
<th>WIRE GAGE CAPACITY</th>
</tr>
</thead>
<tbody>
<tr>
<td>41036 8</td>
<td>12, 14, 16, 18, 20, 22, 24, 26</td>
</tr>
</tbody>
</table>

**COTTER PIN PULLER**
- General’s compound bend design allows user to extract cotter pins with either a pull or twist motion. Ideal for use in confined work areas.
- Plated shaft and point are 4" (101mm) in length and made of long lasting heat treated high carbon steel
- A safe and easy way to remove cotter pins
- Heavy-duty plastic handle with a comfortable grip

<table>
<thead>
<tr>
<th>UPC NO.</th>
<th>SPECIFICATIONS</th>
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</thead>
<tbody>
<tr>
<td>41030 6</td>
<td>Length: 7-1/2&quot; (190mm)</td>
</tr>
</tbody>
</table>

**TRIANGULAR SCRAPER**
- Useful tool for scraping, trimming, and deburring metals, tubing and other materials
- Hardened and tempered triple edge blade is secured in wood handle with steel ferrule
- Hollow ground cutting edges stay sharp longer and resharpen easily

<table>
<thead>
<tr>
<th>UPC NO.</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>42321 4</td>
<td>478</td>
</tr>
</tbody>
</table>

**ADJUSTABLE FILE/TOOL HANDLE**
- For holding files, reamers, hacksaw blades and other tang handled tools
- Exclusive steel parallel clamping jaws grip the entire length of the inserted tang to prevent slipping
- Large, quick adjusting knurled knob ensures positive locking
- Rustproof handle with steel parts
- Conforms to government specifications NN-H-0085

<table>
<thead>
<tr>
<th>UPC NO.</th>
<th></th>
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</thead>
<tbody>
<tr>
<td>43666 5</td>
<td>890</td>
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</table>
General Tool's Swiss Pattern Needle File Sets are designed to meet the exacting requirements of tool and die makers, instrument makers, jewelers, watchmakers, hobbyists and other craftspeople.

### 6-PIECE SWISS PATTERN NEEDLE FILE SET
- A basic set of General all purpose files to meet the needs of craftspeople, tool and die makers, hobbyists and jewelers
- Set includes six different files. All measure 5-1/2" (138mm) long with 1/8" (3mm) diameter shanks
- Files are constructed of high quality Chromium Alloy Steel
- All files are 2-1/2" (63mm) long. #2 Single Cut Swiss Pattern
- Knurled handle file can be used without handle assembly
- Precision locking screw chuck holds files securely in place
- Precision engineered 700 Series Versa-Grip™ handle for maximum performance

<table>
<thead>
<tr>
<th>UPC</th>
<th>NO.</th>
<th>PKG.</th>
</tr>
</thead>
<tbody>
<tr>
<td>70746</td>
<td>8</td>
<td>Holster/Carded</td>
</tr>
</tbody>
</table>

### 4-PIECE SWISS PATTERN NEEDLE FILE SET WITH HANDLE
- Set includes three of the most commonly used file shapes: flat, round and triangular. All are high-quality tool steel and measure 5-1/2" (138mm) long
- A 5-1/2" (138mm) long knurled aluminum handle provides maximum filing control and comfort
- 8-1/2" (213mm) overall size
- #2 single style cut
- General Purpose file set for hobbyists and craftsmen

<table>
<thead>
<tr>
<th>UPC</th>
<th>NO.</th>
<th>PKG.</th>
</tr>
</thead>
<tbody>
<tr>
<td>42319</td>
<td>1</td>
<td>S477 3 files and handle</td>
</tr>
</tbody>
</table>

### 12-PIECE SWISS PATTERN NEEDLE FILE SET
- A complete set of General Purpose files to meet the needs of craftsman, hobbyists and jewelers
- Files are made of high quality tool steel
- Set includes 12 different files including the three most commonly used file shapes: flat, round and triangular. All measure 5-1/2" (138mm) long
- Packed in snap button plastic case
- #2 single style cut

<table>
<thead>
<tr>
<th>UPC</th>
<th>NO.</th>
<th>LENGTH</th>
<th>FILES IN SET</th>
</tr>
</thead>
<tbody>
<tr>
<td>42315</td>
<td>3</td>
<td>5-1/2&quot;</td>
<td>12</td>
</tr>
</tbody>
</table>

### 6-PIECE SWISS PATTERN NEEDLE FILE SET
- Designed to meet the exacting requirements of tool and die makers, instrument makers, jewelers, watchmakers and other craftspeople
- Precision made of finest quality tool steel
- Packed in snap button plastic case
- #2 single style cut

<table>
<thead>
<tr>
<th>UPC</th>
<th>NO.</th>
<th>LENGTH</th>
<th>FILES IN SET</th>
</tr>
</thead>
<tbody>
<tr>
<td>42318</td>
<td>4</td>
<td>5-1/2&quot;</td>
<td>6</td>
</tr>
</tbody>
</table>
General Tool’s Swiss Pattern Needle File Sets are designed to meet the exacting requirements of tool and die makers, instrument makers, jewelers, watchmakers, hobbyists and other craftspeople. Precision made of the finest quality tool steel. Can be used without handle assembly. Precision locking screw chuck holds files securely in place. General’s Probe, Positioning and Spring Hooks are useful in a wide variety of mechanical and electrical functions. Ideal for probing, cleaning, picking or marking small work surfaces.

**12-PIECE SWISS PATTERN NEEDLE FILE SET**
- A complete set of General Purpose Files to meet the needs of craftspeople, tool and die makers, hobbyists and jewelers
- Set includes 12 different files. All measure 5-1/2” (138mm) long with 1/8” (3mm) diameter shanks
- Files are constructed of high quality Chromium Alloy Steel
- All files are 2-1/2” (63mm) long, #2 Single Cut Swiss Pattern
- Knurled handle file can be used without handle assembly
- Precision locking screw chuck holds files securely in place
- Precision engineered 700 Series Versa-Grip™ handle for maximum performance
- Packaged in a fitted zippered case for convenient and safe storage

**4-PIECE INTERCHANGEABLE STAINLESS STEEL PROBE SET**
- For probing, cleaning, picking, or marking small work surfaces
- Set includes: • Four heat treated stainless steel point configurations: • Straight • 180° Hook • 35° Bend • 90° Bend
- Precision locking screw chuck holds blades securely in place
- Each blade is 5” long (127mm); OAL 8-1/2” (216mm) with handle
- Packaged in a fitted case for convenient and safe storage
- Precision engineered 700 Series Versa-Grip™ handle for maximum performance

**4-PIECE PRECISION BLADE PROBE SET - FIXED BLADE**
- For probing, cleaning, picking or marking small work surfaces
- Set includes the most popular mini-tool configurations: • Straight • 180° Hook • 35° Bend • 90° Bend • Each blade is 2-5/8” (67mm) with an overall length of 6” (152mm)
- Blades constructed of heat treated 8650 Alloy steel (nickel-chromium-molybdenum)
- Precision engineered 600 Series Versa-Grip™ handle for maximum performance

**FILE END VIEWS**
- WARDING (FLAT) • SQUARE • CROSSING • ROUND • OVAL • HALF ROUND • EQUALLING (MILL) • KNIFE • BARRETTE • SLITTING • JOINT ROUND EDGE • THREE SQUARE
3-PIECE PROBE AND HOOK SET
General's Probe, Positioning and Spring Hooks are useful for a wide variety of mechanical and electrical work:
- Removing old gaskets and o-rings during a mechanical repair, or positioning wires during an electrical installation
- Set includes three heat treated, high carbon steel probes: 45 degree, double bend and hook bend
- Extra long aluminum bodies and knurled grips
- Hex head prevents tool from rolling

UPC  NO.  OVERALL LENGTH
24500  7   862  6-1/2" (165mm)

12-PIECE STAINLESS STEEL PROBE, POSITIONING & SPRING HOOK SET
- Useful in a wide variety of mechanical and electrical functions
- For separating and positioning wires, inserting and adjusting wires and springs in hard-to-reach areas
- For probing, cleaning, picking or marking small work surfaces
- Heavy-duty locking screw chuck holds blades securely in place
- Each blade is 5" long (127mm); OAL 7-1/2" - 8-1/2" (184mm - 216mm) with handle

UPC  NO.  PKG.
70962  2   707865  Zippered Case/Carded

5-PIECE STAINLESS STEEL POSITIONING AND SPRING HOOK SET
- Useful in a wide variety of mechanical and electrical functions
- For separating and positioning wires, inserting and adjusting wires and springs in hard-to-reach areas
- Heavy-duty locking screw chuck holds blades securely in place
- Each blade is approximately 5" long (127mm); OAL 7-1/2" - 8-1/2" (184mm - 216mm) with handle

UPC  NO.  PKG.
75970  2   707863  Holster/Boxed

PRECISION OILER
- For the exact placement of oil or any other lubricant
- For technicians, contractors, hobbyists and DIY'ers
- Smooth actuator allows for greater control and placement of lubricant
- Generous reservoir

UPC  NO.  OVERALL LENGTH
58900  2   589  5-5/8" (143mm)

MAGNETIC TORPEDO LEVEL
- Quality crafted torpedo level with large reversible reading vials meets the accuracy requirements of professionals
- Heat resistant, unbreakable endplates and internal aluminum frame
- Readings possible from top, bottom or side positions

UPC  NO.  LENGTH
42698  7   839  9"

“Precision, Specialty and Innovation . . . Since 1922” T-119
General’s 3-IN-1 LED and LCD Stud, Voltage and Metal Detectors are ideal for locating studs, pipes, wire carrying voltage and hidden metal. Microprocessor control circuits make it easy to distinguish between battens/studs, metal pipes/tube or objects carrying voltage. An ideal for the DIY home owner, handymen, hobbyist as well as the professional.

**FEATURES**
- Uses four low-power LEDs and beeper to indicate direction and position of stud, batten, metal object or wiring
- Detects/distinguishes between metal pipes/tubes and wires
- Also distinguishes between battens and studs
- Simultaneously detects studs, metal and wiring
- Needs no probe

**SPECIFICATIONS**
- Dimensions: 6.1 x 2.6 x 1.3 in. (155 x 65 x 32mm)
- Weight: 6.3 oz. (178g)
- Power Source: 1 “9V” battery (not included)

**Includes:**
- User’s manual

**UPC**
01276 5

**MSV250**

---

**3-IN-1 LED STUD / VOLTAGE / METAL DETECTOR**

Ideal for locating studs, objects/wires carrying voltage, hidden metal.

**FEATURES**
- Uses LCD scanning indicators and buzzer to indicate direction and position of stud, batten, metal object or wiring
- Detects/distinguishes between metal pipes/tubes and hot wires with variable sensitivity
- Also distinguishes between battens and studs
- Simultaneously detects studs and metal/wiring
- Needs no probe
- Battery charge indicator
- Auto power off

**SPECIFICATIONS**
- Dimensions: 6.1 x 2.6 x 1.3 in. (155 x 65 x 32mm)
- Weight: 6.5 oz. (185g)
- Power Source: 1 “9V” battery (not included)

**Includes:**
- User’s manual

**UPC**
01275 8

**MSV350D**

---

**ZIP-TOP TOOL AND METER BAG, 16” WIDE**

- Moisture-resistant reinforced bottom
- Steel frame mouth and rivet reinforced for rugged use and durability
- Adjustable padded non-slip shoulder strap
- Dimensions: 12”H x 16”W x 8”D (305 x 406 x 203mm)

**UPC**
01319 9

**81001**
• Shatters automotive side windows for emergency escapes
• High-visibility red flashing emergency light
• Magnets hold the tool to the vehicle
• Bright white LED flashlight helps you see at night
• Safety blade cuts seat belts
• Includes 3 “AAA” batteries in a convenient battery compartment

UPC NO. PKG.
79020 0 7902 Carded

“Precision, Specialty and Innovation . . . Since 1922”
THE QUAD™
SAW/DRIVER
A 4-IN-1 CUTTING & DRIVING SYSTEM

The Keyless Quick Change Locking Chuck accepts both Quick Change Power Bits and Standard Reciprocating Saw Blades.
THE QUAD™ Saw/Driver Set

14-PIECE SAW/DRIVER

THE QUAD™ Saw/Driver set offers a 4-IN-1 Cutting and Driving System; a jab saw, key hole saw, power driver, and speed driver.

The two position quick change locking handle offers both power and speed. A convenient holster holds all 14-pieces.

- A 4-IN-1 cutting and driving system
  1. Jab Saw with straight handle and special Sheetrock reciprocal blade
  2. Keyhole Saw in the pistol grip handle position
  3. Power Driver in the pistol grip position
  4. Speed Driver, screw or nut driver with straight handle

- The keyless Quick-Change locking chuck accepts both Quick-Change bits and industry standard reciprocating saw blades

14-PIECE SET INCLUDES:

- 3 saw blades; drywall, Metal/PVC, wood,
- 7 insert bits
- 1 hex to square adaptor
- 1 quick change handle
- 1 holster with belt-clip
- 1 bit extender
- Swivel locking chuck holds all reciprocating blades and speed shank power bits
- Comfortable handle easily locks in the straight or pistol grip position

UPC NO. 86014 9 86014

THE KEYLESS QUICK CHANGE LOCKING CHUCK ACCEPTS BOTH QUICK CHANGE POWER BITS AND STANDARD RECIPROCATING SAW BLADES.
### General Merchandising

**Countertop Displays**

**T6 Cell Phone Screwdriver**
- Display Item No.: 666CD
- Qty Per Display: 18
- Individual Item No.: 666

- Use on cellular phones: For repairs, battery changes or phone cover (faceplate) changes
- Rotating cap; recess fits fingertip
- Removable cap to store small screws

**UltraTech Clip-On LED Light**
- Display Item No.: 580CD
- Qty Per Display: 18
- Individual Item No.: 580

- Great for lighting obstructed work areas
- Clips onto almost anything
- Alligator clip with non-slip grip: rubber padding inside teeth

**4-IN-1 Pocket Mini Screwdriver**
- Display Item No.: 744CD
- Qty Per Display: 20
- Individual Item No.: 744

- For Mechanics, Technicians, Hobbyists, and Do-It-Yourselfers
- Great for tight, close up work
- Removable, individual blades
- Includes: Phillips #1, #00 and Slotted tip 1/16” and 1/8”

---

**Maximize Impulse Sales & Profits**

- Displays are eye-catching & compact
- Impulse items are great for high-traffic areas like checkout counters and end-cap shelving
- Order products **Individually** or in the **Display Box**

When you order the display box, it comes:
- **FREE!**
- Pre-filled with product at regular price
- Ready to assemble... A few simple folds and it is ready to go!

**Precision Knife Set**
- Display Item No.: 1914CD
- Qty Per Display: 24
- Individual Item No.: 1914

- For precision cutting, carving & trimming
- Rust-proof, aluminum handle is compatible with standard No.11 blades
- Carrying case with six standard blade sizes
**General**

### Countertop Displays

**Precise Micro Screwdriver Set – 2pc**
- Display Item No.: No. 602CD
- Qty Per Display: 18
- Individual Item No.: No. 602

- Ideal for close, delicate work
- Durable and rust-resistant
- Includes: Phillips #0 and Slotted tip 3/32”

**Precision Screwdriver Set – 6pc**
- Display Item No.: No. 609CD
- Qty Per Display: 9
- Individual Item No.: No. 609

- For repairing jewelry, cameras, eyeglasses and instruments
- Fingertip swivel head for greater control
- Convenient stand-up case
- Included: Phillips #1, #0 and Slotted tip 1/8”, 3/32”, 6/64”, 1/16”

**Eyelet Repair Kit**
- Display Item No.: No. 601CD
- Qty Per Display: 50
- Individual Item No.: No. 601

- Travel-size with plastic carry case
- Great for emergencies
- Includes: screwdriver, tweezers, screws, nose pads and rubber rings for tightening side arm/frame

**MEASURE’N MARK Pen/Tape**
- Display Item No.: No. 309CD
- Qty Per Display: 15
- Individual Item No.: No. 309

- 3’ (914mm) removable tape measure
- Pen with comfort grip
- Convenient pocket clip
- Available only as a 15-piece counter display

---

**Great For High-Traffic Areas Like Check Out Counters**

**T-125**
4-IN-1 Pocket Mini Screwdriver

- For mechanics, technicians, hobbyists, and do-it-yourselfers
- Great for tight, close up work
- Removable, individual blades
- Includes: Phillips #1, #00 and Slotted tip 1/16" and 1/8"

Multi-Blade Precision Screwdriver

- Five blade storage in handle
- Cushion grip
- Set includes: Five interchangeable blades; Phillips - #0; Torx - T6
  Slotted - 1/16", 5/64", 3/32;

Precision 4-IN-1 Screwdriver

- High-quality precision screwdriver for mechanics, technicians, hobbyists and do-it-yourselfers
- Change blade sizes instantly
- Includes: Two double-ended blades: Phillips - #0, #000; Slotted - 5/64", 1/8"

4-IN-1 Pocket Screwdriver

- This screwdriver is ideal for technicians, hobbyists and do-it-yourselfers
- Two double-ended chrome vanadium blades
- Blades are held in carrier handle
- Change blade sizes instantly
- Convenient pocket clip and capped ends
- Length is 5-1/4" (133mm)
- Includes: Phillips - #0, #1;
  Slotted - 1/8", 5/32"
• Maximize impulse sales and profits
• The displays are eye-catching and compact
• Impulse items are great for high-traffic areas like check out counters and end-cap shelving

Pocket Screwdriver Fishbowls

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- 4-IN-1 cutting system
- Keyhole saw, jab saw, power driver and speed driver
- Set includes:
  - 3 - reciprocating saw blades; drywall, metal/pvc and wood
  - 7 - insert bits: Slotted - 3/16", 1/4"
  - Phillips - #1, #2 Torx - T15, T20
  - Recess Bit - #1

Magnetic Pick-Up Stick™

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- Powerful magnet for a no-stoop pick-up
- Vinyl covered magnet for long life and durability
- Retrieves iron, steel and all ferrous materials
- 37 inch steel shaft for greater strength and durability

Auto Emergency Escape Tool/Flashlight

<table>
<thead>
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- Essential safety tool for the car
- Features flashing hazard light, glass breaker, seat belt cutter and LED flashlight.
- Includes: 3 “AAA” batteries
<table>
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**SAFETY GOGGLES**

**ALWAYS WEAR**
## Conversion Factors

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## AISI/SAE Numbering System for Carbon and Alloy Steel

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<tr>
<th>Type</th>
<th>Carbon content (Hundredths of a %)</th>
<th>L denotes leaved steels</th>
<th>B denotes boron steels</th>
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<td>10</td>
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<tr>
<td>14</td>
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</table>

### Manganese Steels
- 13XX: Mn 1.75%

### Nickel Steels
- 23XX: Ni 3.50%
- 25XX: Ni 5.00%

### Nickel-Chromium Steels
- 31XX: Ni 1.25%, Cr 65-80%
- 32XX: Ni 1.75%, Cr 1.07%
- 33XX: Ni 3.50%, Cr 1.50-1.57%
- 34XX: Ni 3.00%, Cr .77%

### Molybdenum Steels
- 40XX: Mo 20-25%
- 44XX: Mo 40-52%

### Chromium-Molybdenum Steels
- 41XX: Cr .50-.95%, Mo 12-30%

### Nickel-Chromium-Molybdenum Steels
- 43XX: Ni 1.82%, Cr .50-.80%, Mo .25%
- 47XX: Ni 1.05%, Cr .45%, Mo 20-.35%

### Chromium Steels
- 50XX: Cr 27-65%
- 51XX: Cr 80-1.05%
- 50XXX: Cr .50%, C 1.00% min
- 51XXX: Cr 1.02%, C 1.00% min
- 52XXX: Cr 1.45%, C 1.00% min

### Chromium-Vanadium Steels
- 61XX: Cr .60-95%, V .10-.15%

### Tungsten-Chromium Steels
- 72XX: W 1.75%, Cr .75%

### Nickel-Chromium-Molybdenum Steels
- 81XX: Ni 30%, Cr .40%, Mo .12%
- 86XX: Ni 55%, Cr .50%, Mo .20%
- 87XX: Ni 55%, Cr .50%, Mo .25%
- 88XX: Ni 55%, Cr .50%, Mo .35%

### Silicon-Manganese Steels
- 92XX: Si 1.40-2.00%, Mn 65-.85%, Cr 0-.65%

### Nickel-Chromium-Molybdenum Steels
- 93XX: Ni 3.25%, Cr 1.20%, Mo .12%
- 94XX: Ni 4.5%, Cr .40%, Mo .12%
- 97XX: Ni 35%, Cr 20%, Mo .20%
- 98XX: Ni 1.00%, Cr .80%, Mo .25%

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**FOR STAINLESS STEELS**

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<th>AISI</th>
<th>SAE</th>
<th>Stainless Steels</th>
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<td>45X</td>
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<tr>
<td>55X</td>
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**NOTE 1:** Austenitic Steels are not capable of heat treatment but are available in varied harnesses.

**NOTE 2:** AISI 4XX (SAE 514XX) Chromium Steels are either ferritic (not heat treatable) or martensitic (heat treatable) both have magnetic properties.
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**KEY:** * = New Item, ** = Discontinued after supply is depleted, *** = Certified, NCL = Not In Catalog, Z = Not standard discount, SO = Special Order, PC = Price Change.
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