



### EXTRA MINIATURE SCREWDRIVER SET

This set is comprised of seven fine and extra fine (down to watch maker's sizes) screwdrivers for dealing with the small and tiny screws used in many products today. Sizes range from a width of 0.6mm (.024") up to 1.6mm (1/16"). These are quality tools of tough Nickelchrome Molybdenum steel. Blades may be removed and reversed in each handle in case one does get damaged. Packed in plastic carry case.

Cat. No.	Net Price
12-0057-0000	\$12.51



### SCREW STARTER

Double ended screw starter for phillips and standard slotted screws. Cam action holds screws straight and firm. For most screw sizes normally used in electronic work up to 1/4". Overall length 9" for tough to reach places.

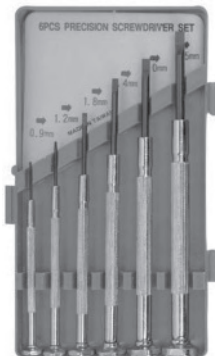
Cat. No.	Net Price
12-0047-0000	\$13.05



### SNAP RING PLIERS KIT

The GC snap ring pliers kit gives you four different tip configurations for internal and external applications with an effective range of 3/8" to 2" (10-50mm). Easy change of tips is accomplished in just seconds and cushioned grips assures you of comfortable control. Convenient storage unit keeps handle and tips in place. Includes four (4) interchangeable tips. Versatile—one tool replaces four. Convenient storage container. Cushioned grips.

Cat. No.	Net Price
12-1950-0000	\$20.35



### 6-PIECE PRECISION SCREWDRIVER SET

Easy grip swivel-cap handles are indispensable for hobbyists and experimenters. Small blades find uses in assembly and repair of electronic devices, models, jewelry, and toys. Six flat blades include sizes: .9mm, 1.2mm, 1.8mm, 2.4mm, 3.0mm, and 3.5mm, packaged in plastic storage box.

Cat. No.	Net Price
12-0043-0000	\$5.33



### SWIVEL VACUUM VICE

Attaches quickly to any smooth, nonporous surface. Vice tilts up to 180° vertically—swivels a full 360° horizontally. Rugged casting with 3" wide, metal, V-groove jaws which open to 2 3/4". Versatility makes it useful in the shop or lab and for light production work. Base size: 6 1/4" Hammertone finish.

Cat. No.	Net Price
12-0061-0000	\$93.68



### ANGLE REAMER & FORKED TIP

Heat treated tool steel prevents solder from sticking to tool. Forked tip for twisting or holding wires, angled reamer on the other end. 6 1/2" long plastic handle.

Cat. No.	Net Price
00-9076-0000	\$4.37



### STRAIGHT REAMER & FORKED TIP

Made from stainless steel, solder will not stick to it. Forked tip on one end, straight reamer on the other.

Cat. No.	Net Price
00-9075-0000	\$5.22



### BRUSH & SCRAPER TIP

Brush on one end for dusting away excess solder chips, and scraper tip for scraping joints.

Cat. No.	Net Price
00-9074-0000	\$5.22



### LAB SCISSORS

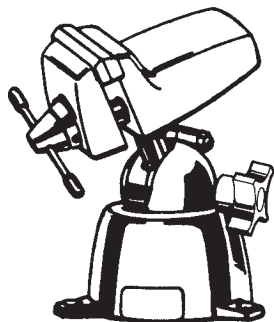
Medium weight, 5-1/2". Excellent tool for trimming fine leads, copper foils, etc. Heavy enough to be used for shaping cambric, lighter weight fish papers, etc. Belongs in all electronics labs.

Cat. No.	Net Price
12-0284-0000	\$9.79

## PANAVISE®

### THE MODERN WORK HOLDER SYSTEM USED BY INDUSTRY WORLD-WIDE

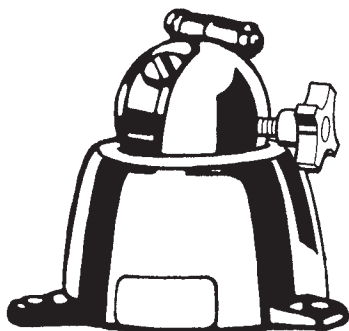
PanaVise is a unique system of precision tools, designed as interchangeable components. The system consists of four dimensionally related bases with compound rotation and tilt action...plus a variety of adjustable work-holder vise heads and attachments with variations.



#### MODEL 301 PANAVISE TURNS AND TILTS AT ANY POSITION

Four functional design features that make PanaVise work holder tool systems the most versatile in the world. (1) The stem of the vertical vise head turns full-circle within the 5/8" (1.59 cm) throat of the "locking unit" in the base. (2) This locking unit also permits the vise head to be tilted 90° in any direction (180° tilt action). (3) The housing containing the "locking unit" also rotates full-circle, (4) All these movements are controlled by one variable-pressure knob, making it possible to move the work at any desired drag-tension, or to lock it firmly, at any position, any angle, facing any direction around the base.

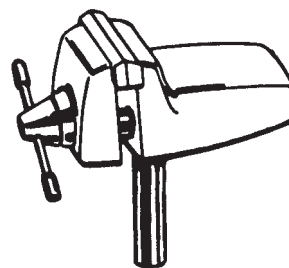
Cat. No.	Net Price
301	\$56.10



#### MODEL 300 STANDARD HEIGHT BASE

The same locking unit as described on the 301 PanaVise. Three lugs are positioned for mounting on No. 311 bench clamp or directly on bench, wall or work station. Height: 3 13/16" (9.7 cm). Base dia.: 5" (12.7 cm).

Cat. No.	Net Price
300	\$26.17

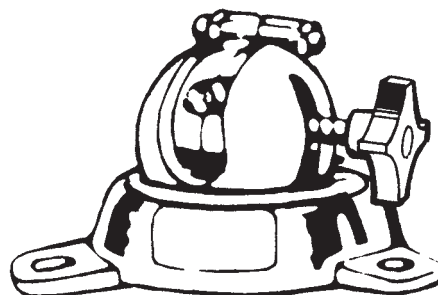


303  
5/8" (1.59 CM) STEM  
FITS ALL BASES

#### MODEL 303 VERTICAL JAW VISE HEAD

The same head as supplied on the 301 PanaVise. The 5/8" (1.59 cm) stem fits all positioner bases. The 2 1/2" (6.35 cm) jaws open to 2 1/4" (5.72 cm) with throat depth of 1 5/16" (3.33 cm). Equipped with Nylon jaws. Head is pressure die-cast aluminum alloy, with steel and brass inserts which are flared and notched for maximum bonding. Unitized construction, cross-ribbed body, nickel-plated stem, brass bushing for steel adjusting screw, steel guide pins, stainless steel tightening rod. Height (in use above base): 2 3/4" (7.0 cm). Size: 2 1/2" x 5 1/4" (6.4 cm x 13.3 cm).

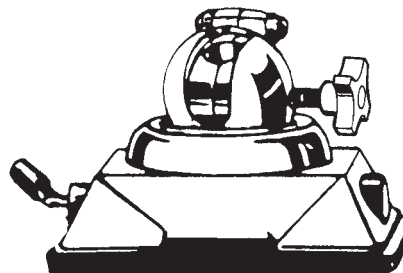
Cat. No.	Net Price
303	\$31.16



#### MODEL 305 LOW PROFILE BASE

The low profile base allows you to work close to the mounting surface. Straight front permits mounting flush with edge of bench or station. Three lugs are positioned for mounting of No. 311 bench clamp, or directly to bench, wall or work station. Height: 2 5/8" (6.7 cm). Base dia.: 5" (12.7 cm).

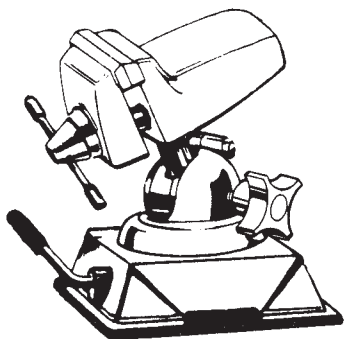
Cat. No.	Net Price
305	\$26.17



#### MODEL 380 VACUUM BASE

Attaches instantly and tightly to smooth non-porous surfaces. Ideal portable positioner for quick, changeable set-ups. A turn of the lever attaches and releases the heavy duty suction pad. Moistening the pad increases its powerful grip. Height: 3 3/16" (8.1 cm). Suction pad dia.: 5" x 4 1/4" (12.7 cm x 10.8 cm).

Cat. No.	Net Price
380	\$42.38



### MODEL 381 VACUUM BASE

The 381 Vacuum Base is a combination of the 380 Vacuum Base and a 303 Standard Head which creates the versatility of the 301 standard PanaVise with added portability. A half turn of the mount lever attaches or releases the powerful suction pad and allows rapid set-ups in a variety of locations on smooth, non-porous surfaces.

Cat. No.	Net Price
381	\$72.31



### JAWS FOR THE 303 STANDARD OR 304 LOW PROFILE HEADS

**Model 352 High Heat Teflon Jaws.** Used in high heat environments. Temperature limits are 840°F (499°C) intermittent, and 500°F (260°C) constant. Size: 2½" x ½" x ¼" (6.4cm x 1.27cm x .635cm).

Cat. No.	Net Price
352	\$14.95



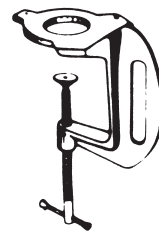
**Model 344 Grooved Nylon Jaws.** Same as 343 with horizontal slots designed to gently hold small objects. Size: 2½" x ½" x ¼" (6.4cm x 1.27cm x .635cm).

Cat. No.	Net Price
344	\$4.73



**Model 353 Plated Steel Jaws.** These husky jaws are recommended when working with high heat or heavy objects.

Cat. No.	Net Price
353	\$8.09

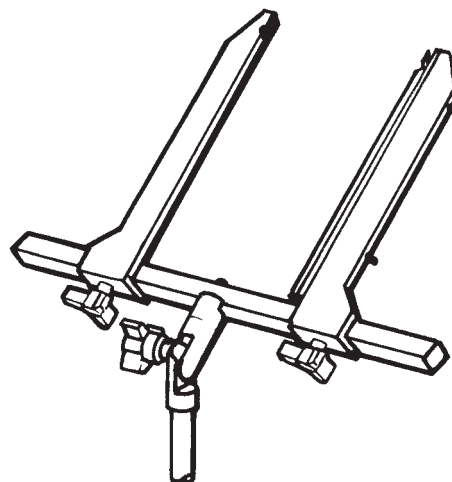


HOLES SPACED FOR  
MOUNTING BASES 300  
AND 305

### MODEL 311 BENCH CLAMP

Designed, drilled and tapped for PanaVise positioner bases 300 and 305, with three zinc-plated flat head machine screws supplied. With bright zinc plated steel clamping screw and leveling button, stainless steel tightening rod.

Cat. No.	Net Price
311	\$49.87



315

### MODEL 315 CIRCUIT BOARD HOLDER ASSEMBLY

When used in a PanaVise Base the 315 Circuit Board Holder is designed to accommodate PC boards of any shape and size, from ⅛" (3mm) to 12" (305mm) in width. With the 318 accessory Cross Bars, the width can be extended to 24" (762mm). Hold PC boards exactly where you want them—flat, vertical, or any angle in between. Arms may be moved independently in either direction, and may also be positioned adjacent to each other. The aluminum arms extend 6" (152mm) from the cross bar. Each arm has a "V" shaped groove to hold boards up to ⅝" (4mm) thick. An exclusive second set of "V" notches, positioned laterally near the tips, holds small electronic parts in a secure and convenient position. The stem is ⅝" (16mm) in diameter.

Cat. No.	Description	Net Price
315	Circuit Board Holder Assembly	\$41.14

[www.e-sonic.com](http://www.e-sonic.com)