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Aviation Snips

Applications

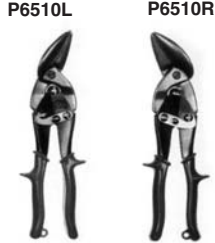
- sheet metal
- linoleum
- cardboard
- paper
- strapping
- rubber
- plastic
- and other similar materials
- vinyl
- gaskets
- cloth

Note: Do not use aviation snips for cutting/nipping hardened wire, springs, nails, etc.

P6510-L offset - left cut aviation snip (cuts straight and tight left curves)

P6510-R offset - right cut aviation snip (cuts straight and tight right curves)

These models are best suited for making long cuts through soft sheet metal and a multitude of other materials. The offset blade pattern guides the material being cut away from the blades. The off-set blade pattern also positions the user's hand above the material being cut.



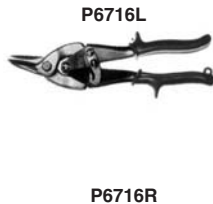
Stock No.	Nominal Length	Pinch-to-Point Cut Length	*Cutting Capacity
P6510L	9-3/4" 248mm	1-1/4" 32mm	18 ga CR 22 ga SS
P6510R	9-3/4" 248mm	1-1/4" 32mm	18 ga CR 22 ga SS

P6716-S straight cut aviation snip (cuts straight and wide curves to the left and right)

P6716-L left cut aviation snip (cuts straight and tight curves to the left)

P6716-R right cut aviation snip (cuts straight and tight curves to the right)

These models are best suited for trim cutting soft sheet metal and for cutting a multitude of other materials. The P6716-S straight cut aviation snip is the most versatile of all aviation snip models.



P6716R



Stock No.	Nominal Length	Pinch-to-Point Cut Length	*Cutting Capacity
P6716S	9-3/4" 248mm	1-1/2" 36mm	18 ga CR 22 ga SS
P6716L	9-3/4" 248mm	1-3/8" 35mm	18 ga CR 22 ga SS
P6716R	9-3/4" 248mm	1-3/8" 35mm	18 ga CR 22 ga SS

P6716-B bulldog/notch cut aviation snip (short straight cuts)

These models are best suited for cutting multiple thickness and rolled edges of sheet metal and up to 16 gauge soft sheet metal as well as other thick materials.

P6716B



Stock No.	Nominal Length	Pinch-to-Point Cut Length	*Cutting Capacity
P6716B	9" 229mm	7/8" 22mm	16 ga CR 18 ga SS

*CR = cold-rolled steel metal 16ga = 0.062"/1.574mm thickness
 SS=stainless steel sheet metal 18ga = 0.049"/1.244mm thickness
 22ga = 0.028"/0.711mm thickness

All Purpose Tinner Snips

Regular/Straight Pattern

Hot drop-forged of high carbon steel and heat-treated to assure strength and durability. Outer blade surfaces are ground smooth and fully polished. "Kush-n-Kote" durable vinyl plastic coats handles and bows for user comfort.

Stock No.	Nominal Length	Pinch-to-Point Cut Length	*Cutting Capacity
P77S	7" 178mm	1-3/4" 44mm	24 ga CR 28 ga SS
P127S	12" 305mm	3" 76mm	20 ga CR 22 ga SS



Duckbill/Circular Pattern

Hot drop-forged of high carbon steel and heat-treated to assure strength and durability. Outer blade surfaces are ground smooth and fully polished. "Kush-n-Kote" durable vinyl plastic coats handles and bows for user comfort. Ideal for cutting intricate scrolls, circles, and tight curves.

Stock No.	Nominal Length	Pinch-to-Point Cut Length	*Cutting Capacity
P77D	7" 178mm	1-3/4" 44mm	26 ga CR 28 ga SS
P107D	10" 254mm	2-1/4" 64mm	24 ga CR 26 ga SS
P127D	12" 305mm	3" 76mm	22 ga CR 24 ga SS



Aviation Snips - Verticle

Right angle blades make cutting easier in tight spaces and overhead. Capacity to cut 24 ga. cold-rolled sheet metal and 28 ga. stainless steel sheet metal.



P6900L



P6900R



Left Cutting Pattern



Right Cutting Pattern

A.W. SPERRY INSTRUMENTS INC.



DIGITAL MULTIMETER SNAP AROUND Model DSA500A

Lifetime Limited Warranty
Continuity Buzzer
Data Hold
Safety design conforming to the following provisions of IEC61010
Overvoltage category III 300V, pollution degree 2,
Overvoltage category II 600V, pollution degree 2,
"Sleep" feature to extend battery life
Provides a dynamic range of 4,000 counts full scale
Uses shrouded transformer jaws to further improve safety



DIGITAL MULTIMETER Model DM-350A

UL Listed to Both US and Canadian Standards
Meets CE Requirements
One Year Limited Warranty
Designed to CAT III 600V
Overload Protection on all Ranges
Up to 2000 Hours Battery Life
Diode Test Function
Recessed Safety Designed Input Terminals

DIGITAL HYGROMETER



One Year Limited Warranty
Compact & Lightweight
Easy to Operate
Backlit Display
Max Hold
Data Hold
Digital & Analog Output
Auto Power Off
RH
#STK3026RH



DIGITAL MULTIMETER Model DM5300

UL Listed to Both US and Canadian Standards
Meets CE Requirements
Five Year Limited Warranty
Drop Proof to 10 Feet
Data Hold
Max Hold
Built-In Hanger & Tilt Stand
Rubber Holster
Continuity, Diode Test
Safety Yellow



DIGITAL MULTIMETER Model DM4000A

UL Listed to Both US and Canadian Standards
One Year Limited Warranty
Overload Protection on all Ranges
Continuity
Recessed Safety Designed Input Terminals
Built-in Tilt Stand
Diode Test



DIGITAL THERMOMETER Model DT35A

Dual Temperature Input
Meets CE Requirements
One Year Limited Warranty
Reads Both °F and °C
Uses Standard K-Type Thermocouple Probe
External Offset Calibration Adjustment
Data Hold
Max Function
Temperature Differential Function
Ergonomically Contoured



DIGITAL VOLTMETER MODEL DM-3A

UL Listed to Both US and Canadian Standards
Meets CE Requirements
One Year Limited Warranty
Overload Protection on all Ranges
Built-In Test Leads
"Booklet Style" Carrying case
Continuity
Auto Power Off
Auto Power Off
Range Hold

DIGITAL PSYCHROMETER



Min/Max
Data Hold
°F/°C Switch
Auto Power Off
Reset Button
#DP122

A.W. SPERRY INSTRUMENTS INC.



WIRE SORTER

Model WS-6A economically and easily sorts up to 6 single or 6 pair of un-powered wires with or without a known ground path. Connect one clip(s) of the WS-6A colored "Identifier Leads" to one end of cable and the other clip(s) to ground. Touch the Wire Sorter at the other end of cable being identified. LED display instantly identifies matching wire ends or pairs.

#WS6A

FEATURES

- Quickly identifies un-marked wiring
- Locates proper wiring in bundled groups
- Works on non-energized lines
- Detects if there is voltage on the line
- Simple to operate



PHASE SEQUENCE AND OPEN PHASE INDICATOR MODEL PSI-8031

FEATURES

- Dual purpose...indicates Phase Sequence and Open Phase.
- Broad operating range...up to 600v on 3-Phase Power Source.
- Color coded insulators over alligator clips...for instant identity.
- Shock resistant plastic housing...tough and durable.
- No exposed metal parts...for greater safety.
- Extremely easy to read...with just a quick glance.
- Palm-size, lightweight...readily portable.

PACKAGING

Packed complete with C-31 Carrying Pouch. Operating Instructions SPB-126 and Warranty Card.



UL LISTED SP152A POCKET SIZE MULTIMETER

FEATURES

- UL listed
- Ruggedized impact resistant case
- Industry standard safety recessed input terminals and shielded banana plugs
- Mirrored scale plate
- Diode protected meter...Prevents damage due to overloads
- Handy tilt stand/carry handle
- Battery test function

PACKAGING

Packed complete with TL-56 Test Leads, Two (2) B-1 Batteries, F-1 Fuse and Form #245 Operating Instructions.



Model SP5A

UL LISTED SP5A POCKET SIZE MULTIMETERS

FEATURES

- UL listed
- Safety designed...with recessed test lead connections.
- High impact thermoplastic case
- Mirrored scale plate...eliminates errors due to parallax
- Diode protected meter prevents...damage due to overloads
- Small sized & lightweight...fits easily in hand and pocket
- Extra long probe tips...can be used in many industrial type applications
- Economically powered...by only one 1.5V AA battery
- Perfect for all uses on the job...in the house or for hobbies.



DOUBLE CUT SNIP

Double cut design is ideal for cutting metal pipe or duct. Double cut design removes a curled strip of metal from path with virtually no surface distortion. Double cut also features adjustable taper ground outer blade. Offset handle design aids maneuverability and also protects user's hands.



PART #	LENGTH
4R	8-1/2"

ANDY™ ALUMINUM SNIPS

Strong and Lightweight with Inlaid Steel Blades

Superior quality, heavy duty snips are only 1/3 the weight of steel types, and give many more years of service. Comfortable, sleek contour aluminum handles have reinforcing ribs to duplicate the strength of steel. Handles will not spring when cutting heavy gauges of sheet metal. Inlaid blades are supreme cutlery grade moly steel, electronically heat treated and tempered for continuous use. Precision ground, beveled cutting edges stay sharp longer and make pattern cutting, even circle cuts, an easy job. Blades are resharpenable and also easily replaced when necessary. Metallic gray, baked enamel finish gives these snips a professional look to match their professional standard of performance.



PART #	LENGTH
M12	12"
M14	14"

OFFSET HAND SEAMER

Bends and flattens metal easily, overhead or in confined areas. The Malco Offset Hand Seamer features the same great functional design and compact, rugged construction as the popular S2 model.



PART #	LENGTH
S3	8"

2-IN-1 HAND RIVETER

PART #	LENGTH
21N1K	8"



5-BLADE CRIMPER

For joining identical size sheet metal pipes—all round, square and corrugated fast and easy at the job site. Nickel plated steel.



PART #	LENGTH
C5	9"

SINGLE CRIMPER

One blade crimp is perfectly suited for the corners of downspouts. Handy lock makes tool pocket sized for on-the-job use. Zinc plated steel. Red grips.



PART #	LENGTH
SC1X	8"

OFFSET CRIMPER

Ideal crimping tool wherever you encounter tight working quarters or working over-head. A unique blade design keeps handles offset and keeps hands off work obstacles such as floor joists and underlayments.



HAND SEAMER

Bends and flattens metal easily. Makes permanent, tight fitting seams. Scaled depth marks on jaws are in 1/4" increments. Jaws are drop forged, high impact steel.



PART #	LENGTH
S2	8"

HAND NOTCHER

Notcher makes a clean 30° "V" shaped cut in sheet metal. 13/16" maximum throat depth. Upper cutting jaw is drop forged high impact alloy steel.



PART #	LENGTH
N1	8"
N2	8"

SNAP LOCK PUNCHES

Punch impression spaced 3/8" from edge of metal. Heavy forged cutting jaw.

PART #	DESCRIPTOIN
SL1	3/8"
SL2	1/4" - 5/8"





HAND TOOLS AND ACCESSORIES

SCRATCH AWLS

Use scratch awls to scribe on metal or pierce holes in wood, plastic, leather - even light gauges of sheet metal. Blades are high carbon, alloy tool steel fully polished to resist rust. Blade tapers to a fine point and may be resharpened many times. Easy-to-spot orange handles are shock and shatter resistant. Shallow fluted handles with large end bearing surface provide a sure, comfortable grip. User has choice of large diameter or regular grip handles. All handles are non-roll design for on-the-job convenience. Blades and handles are joined securely and will give many years of dependable service.

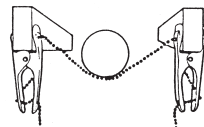
PART #	LENGTH
A0	3"
A1X	3-1/2"
A2	4"



PIPE & DUCT HOLDERS

LIKE AN EXTRA PAIR OF HANDS. Two powerful clamps and four feet of strong 125 lb. tensile strength beaded chain. Set holds any size or shape duct or pipe in place, either between or under joists until it is properly secured. Also ideal for installing fiberglass duct, link chain will not puncture foil skin. Chain locks quickly and easily into top and bottom slots of clamps at 1/2" intervals. Clamp handles are a big 8" long for extra leverage and one hand operation. Both clamps and chain are nickel plated steel.

PART #	LENGTH
2DH	1 PAIR



FLEX DUCT CUTTER

Built-in wire cutter lets you finish the job you started with just one tool! Double edged blade cleanly pierces through outer skin and insulation.



PART #	LENGTH
FDC1	11-7/8"

DIVIDERS

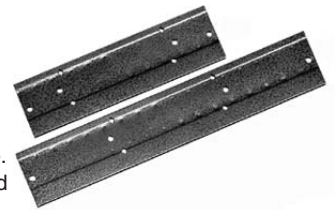
Accurate and fast adjusting. 2 sizes for circles up to 36" and 48". Scribes a thin, accurate line time after time. Nickel plated steel body.

PART #	LENGTH
18	11"
24X	13-1/2"



FOLDING TOOLS

Sturdy tools fold 24 to 30 gauge mild steel. Tools have folding seams for both 3/8" and 1/2" folds. Available in 8" and 12" folding lengths. Handy hang-up hole. Steel seam halves are securely fastened together with permanent welds. Gray metallic baked enamel finish.



PART #	LENGTH
8X	8"
12F	12"
18F	18"
24F	24"

DUCT STRETCHERS

Improved design allows tool to pull duct together from either direction without adjusting the wheels. Use the Duct Stretcher to hold duct in place with one hand while slipping drive cleat in place with other hand. Additional spacing holes allow wheels to be adjusted to span greater distances.

PART #	LENGTH
DS1	Standard
DS2	Offset
DS3	Locking



HOLE CUTTER

Cuts holes up to 12" diameter in 20 gauge sheet metal. Use with any standard 1/4" electric drill. Cutter pivots on a pro-drilled center hole. Patented shoe feature permits smooth finishing of holes. High speed bearings at top and bottom of drill shaft insure perfect cutting balance and long life of mill type cutting bit. Cast aluminum body. All wearing parts made of special heat treated steel.

PART #	HOLE DIA.
HC1	2"-12"

REPLACEMENT PARTS

PART #	DESCRIPTION
CB	BIT
HC1B	PIVOT PT.





HAND TOOLS AND ACCESSORIES

TOP READING

TORPEDO LEVELS

MAGNETIC BASE

Duplex milled aluminum frame with "cycolac" end plates is lightweight and withstands shock or abuse. Precision cast parallel edges will not scratch work surface. Three large vials — plumb, level and 45°. White vial holders and top read feature facilitate quick, easy reading. Grooved working edge designed for use on pipe and conduit.



PART #	LENGTH
L9M	9"

HAMMERS

RIVETING HAMMER Leather Handles



PART #	WEIGHT
RH4	12 oz.

SHEET METAL HAMMERS Leather/ Wood Handle



PART #	WEIGHT
2SW	18 oz.
SH3	18 oz.

1/8" – 3/16" HOLE PUNCH

ADJUSTS FROM 1/4" to 1-1/8" DEPTHS



PART #	DESCRIPTION
HP18K	1/8"
HPD316	3/16"

ELECTRICIAN'S POUCH

PART #	DESCRIPTION
TP3M	NINE COMPARTMENTS



MAGNETIC

HEX CHUCK DRIVERS

Use with Zip-in and Type "A" hex head self-drilling screws and Bit-Tip drill and tap screws.



PART #	HEX OPENING	HEX DIA.	NOSE DIA.	O/A LENGTH
MSH-1/4	1/4"	1/4"	7/16"	1-3/4"
MSHL-1/4	1/4"	1/4"	7/16"	2-9/16"
MSHXL-1/4	1/4"	1/4"	7/16"	6"
MSH-5/16	5/16"	1/4"	1/2"	1-3/4"

TOP BUTTON ACTION

UTILITY KNIFE

Die-cast heavy duty model comes complete with 3 surgical quality, extra heavy precision blades that fit all popular models. Safe, easy to operate, thumb action mechanism on top facilitates three cutting positions.

REPLACEMENT BLADES – 5 PAK

PART #
4PK



PART #
CSB5

MINI-KNIFE®

PART #
3PKM



PART #
KBM

ADJUSTABLE

SHEET METAL SCRIBER

The Malco A60 is pocket size, yet adjustable from 1/4" to 12-1/2" depths. Simply rotate the scriber extension and knob assembly end to end in sleeve holder for larger 6-1/2" to 12-1/2" depth trim lines.

PART #
A60



PRY BARS

HANDY BAR

HB/PB construction gives superior strength, yet is lightweight for less worker fatigue.



PART #	LENGTH
HB15	15"
PB18	18"

WEB BELT



PART #	DESCRIPTION
TPB1	2-1/4" WIDE, ADJ. TO 46"

SPADE TYPE

WOOD BITS



PART #	DIA.	LENGTH	SHANK / DIA.
WB1/2	1/2"	6"	1/4"
WB5/8	5/8"	6"	1/4"
WB3/4	3/4"	6-1/8"	1/4"
WB1	1"	6-1/8"	1/4"
WB1-1/4	1-1/4"	6-1/8"	1/4"
WB1-1/2	1-1/2"	6-1/8"	1/4"



TOOL BAGS



Canvas Tool Bags

Durable bags made of one-piece No. 8 white canvas. Bottom and 3" (76 mm) of lower sides are covered with one-piece Naugahyde, cemented and lock-stitched. Bottom is protected with steel studs. Mouth has steel frame. Handles are harness leather. All bags have two retaining straps and buckles. Bags are 6" (15 cm) wide. For shoulder strap kit see Cat. No. 5102-18.

Cat. No.	Length	Depth
5102-18	18" (46 cm)	14" (36 cm)

MISCELLANEOUS BAGS

Canvas Zipper Bag



Sturdy white-canvas bag with strong zipper. Convenient storage for pliers, wrenches and other tools.

Cat. No.	Length
5139	7-1/2" x 12" (19 x 30 cm)

CORD REELS/DROP LITES

SERIES DROP-LITE REELS



Drop-Lite Reels

Cat. No. Description
S900G 50-ft reel with grounded convenience outlet in the handle plus push-button switch. The 3-conductor grounded cord has molded plug and swing-open metal lamp guard with one-piece hanger hook. Heavy-duty service with 30-ft., SJT 16/3 cord, UL rated at 10A/125V.

Drop-Lite with 3-Conductor Cord

Heavy-duty construction includes steel swing-open guard with hanger-hook, 3-conductor cord with molded plug cap, push-button switch, convenience outlet, comfortable grip. Bulb not included.

Cat. No.	Cord Length	Type	Rating
225DCG	25'	16/3 SJT	13A-125V
250DCG	50'	16/3 SJT	13A-125V

Fluorescent Drop Lite

Provides cool, energy-efficient illumination. Has shatter-resistant shield with a no-glare reflector, instant-starter switch in handle, convenient hanging-hook, grounded plug-in ballast. Furnished with 15-watt fluorescent bulb and 25-ft. 18/2 SJT cord.

Cat. No. Description
825FL Fluorescent drop lite.

TOOL BOXES

HI-VIZ 3-Tier Tool Box

Additional Features:

- Offers maximum space and organization in a compact unit.
- All the storage compartments nest for maximum storage in one compact unit.
- V-groove in lid to hold conduit or pipe for sawing.
- Top tray has compartments for small tools and parts.
- Tote tray holds larger tools and accessories.
- Tote and top tray have molded handles to carry separately.
- Large tub for big power tools.



54700

HI-VIZ Sit/Stand 3-Tier Tool Box

Additional Features:

- Lid has a no-slip surface and is strong enough to stand or sit on.
- Convenient, adjustable shoulder strap and top handle for carrying.
- Offers maximum space and organization in a compact unit.
- V-groove in lid to hold conduit or pipe for sawing.
- Top tray has compartments for small tools and parts.
- Tote tray holds larger tools and accessories.
- Large tub for big power tools.



54701

Cat. No.	Per Pak	Depth	Width	Height	Weight
54700	1,165 cu in.	9"	16-1/4"	12-1/2"	5lbs
54701	4,095 cu in.	13-1/2"	20-3/4"	16-3/4"	13lbs



SIDE-CUTTING PLIERS



High-Leverage NE-Type Side Cutters

Our most popular side cutting pliers. Smooth, streamlined nose with knurled jaws. High-leverage design provides 46% greater cutting and gripping power than regular 8-1/2" and 9-1/4" side cutters. Blue plastic-dipped handles.

Cat. No.
D213-9NE



High-leverage design. Rivet is closer to the cutting edge for 46% greater cutting and gripping power than other plier designs.

Cat. No.
D2000-9NE

Klein 2000 Series

VA D2000-9NE Same as D213-9NE except with ultra-durable "2000 Series" cutting knives for ACSR, bolts, nails and most hardened wire. Blue plastic-dipped handles.

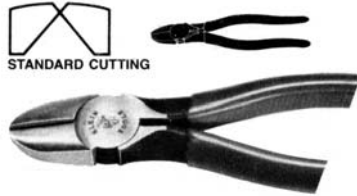


Standard NE-Type Side Cutters

Smooth, streamlined design. Slides more easily in and out of tool pouch. Plastic-dipped handles.

Cat. No.
D201-7NE
D201-8NE

DIAGONAL-CUTTING PLIERS



Heavy-Duty Diagonal Cutters with Tapered Nose

Tapered nose and standard-bevel cutting knives. One-inch jaws reach into confined spaces. Plastic-dipped handles.

Cat. No.
D220-7



Standard Diagonal Cutters with Tapered Nose

Tapered nose and standard-bevel cutting knives. Available with or without coil spring. Plastic-dipped handles.

Cat. No.
D202-5

LONG-NOSE PLIERS



Standard Long-Nose with Side Cutters

Standard long-nose design with cutting knives at hinge. Permits wrapping, looping, and cutting with a single pliers. Available with or without coil spring. Plastic-dipped handles

Cat. No.
D203-6
D203-7

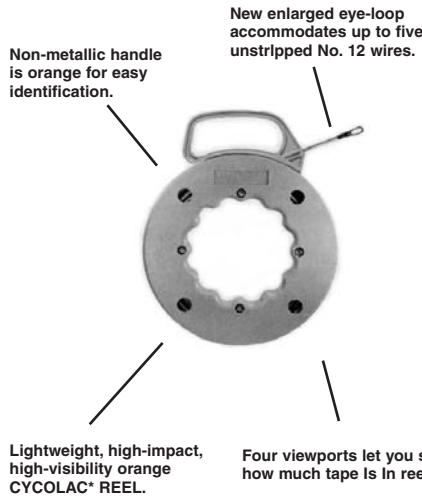


Extra-Slim Needle-Nose

Long, narrow nose and slim hinge for efficient use in extremely close quarters. Finely knurled jaws grip thin wire without damaging it. With coil spring. Plastic-dipped handles.

Cat. No.
D335-5-1/2C

FISH TAPE



Klein-Flex™ Fish Tapes in Convenient Winder Reel

Klein-Flex tape pulls wire through every type of conduit, including aluminum, plastic and "flex". No kinks, no jams, no backups.

REPLACEMENT TAPE



†Klein-Flex Tapes in uncased coils, including replacement tapes for winder reels.

Same as tape in reel but with eye-loops on both ends. Three standard lengths; other lengths available on special order.

Cat. No. Length
50050 †50'

Smooth and easy to handle. Enlarged eye-loop accommodates up to five un-stripped No.12 wires. 500-lb. maximum rated load. In 25' and 50' lengths with reel; also available in coiled 25', 50', and 100' lengths without reel.

Klein-Flex Fish Tapes with Reel.

Cat. No. Description Reel Dia.
50150 50' (15.2 m) in reel 12"



KLEIN STRIPPERS/CUTTERS

Combination Wire-stripping & Cutting Tools



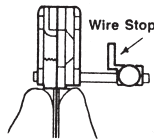
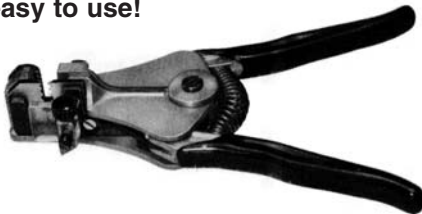
11045

Wire Strippers-Cutters

Compact, lightweight strippers gauge, cut, strip and loop wire. Spring-loaded, self-opening action. Flat design makes them easy to store and carry. Narrow nose fits into tight places. Strip wire quickly, cleanly, evenly. Strong, hardened-steel with precision-ground stripping holes. Clear gauge markings on both sides. Black oxide finish. Comfortable plastic-dipped handles. Overall length 6" (152 mm).

Cat. No.	Handle Color	Strips AWG Gauges
11045	Yellow	No. 10, 12, 14, 16, 18 solid wire

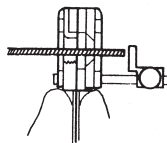
Accurate, fast and easy to use!



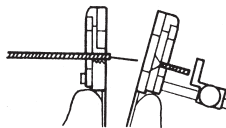
1. Adjust wire stop for stripping length up to 1".

Automatic Wire Stripper

One light squeeze* strips wire from No. 10 to 22 AWG, up to a full 1" without nicking, cutting or fraying the wire. Operator fatigue is reduced by the mechanical lever-action of the unit. Blades also available for 8 to 12 AWG and 16 to 26 AWG, plus three metric blade sizes covering a range of 0.15 mm² to 6.0 mm². In use, a gripper holds wire securely in a centerline position while knife-type stripping blades with form-ground holes cleanly cut insulation. Automatic feature holds jaw open for removing wire without crushing end. Die-cast construction, with comfortable plastic hand grips. Supplied with adjustable wire stop as standard feature, to assure uniform, precise strip length. Overall length is 6-1/2" (17 cm).



2. Insert wire into desired size stripping hole as marked on blade.



3. Squeeze handle. Wire is automatically gripped and stripped with the same motion. Release pressure and jaws automatically open to release stripped wire. For clear nylon-jacketed conductors, two activations are required.

* For clear nylon-jacketed conductors, two activations are required.

Cat. No.	Strips AWG Gauges
11062	10, 12, 14, 16, 18, 20, 22

Alligator and General-Purpose Clips Mini-Paks

Alligator Clips

Alligator (Non-Insulated)	Cat. No.	Description
	B19310	Four No. 19310 alligator clips.
	B19318	Two No. 19310 alligator clips & one each No. 19316 & 19317 insulators.

Mini-Gator Clips

	B19311	Four No. 19311 alligator clips.
	B19319	Two each No. 59310 & 69310 alligator clips.
	B19320	Two each No. 59311 & 69311 alligator clips.

General Purpose Clips

	B19312	Four No. 19312 mini-gator clips.
	B19313	Four No. 19313 mini-gator clips.
	B19314	Four No. 19314 general-purpose clips.
	B19315	Four No. 19315 general-purpose clips.
	B19321	Two each No. 19316 & 19317 insulators.



Extra-Capacity Design Plastic-Dipped Handles

Same as series 507, but with plastic-dipped handles. Also available with heavy-duty plastic-dipped handles.

Plastic-Dipped Handles

Cat. No.	Length	Capacity
D507-6	6"	15/16"
D507-8	8"	1-1/8"
D507-10	10"	1-5/16"
D507-12	12"	1-1/2"

HAMMERS

Heavy-Duty Curved-Claw Hammer



Curved claw gives maximum nail-pulling leverage. Polished drop-forged, tempered-steel head. High-strength fiberglass shaft keeps head tight. Durable plastic-alloy jacket protects neck from fraying and splintering. Comfortable, perforated neoprene grip bonded to handle.

Cat. No.	Head Weight	Overall Length
818-16	16 oz.	13"
818-20	20 oz.	13"

Hand-Drilling Hammer



Extra-heavy, drop-forged steel head, hardened and tempered. Short handle for working in close quarters. Select hickory handle, triple-wedged and lacquered. Special process removed moisture from handle and replaced it with oil to eliminate effects of extreme temperatures.

Cat. No.	Head Weight	Overall Length
823-48	48 oz.	10-3/4"



KLEIN HEX-KEY WRENCHES



Eight-Key Set: Sizes .050", 1/16", 5/64", 3/32", 7/64", 1/8", 9/64", and 5/32"

Cat. No.	Handle Length	Key Lengths
70581	3-1/16" (78 mm)	1-1/2" to 2-3/8" (38 to 60 mm)



Eight-Key Set: Sizes 3/32", 7/64", 1/8", 9/64", 5/32", 3/16", 7/32", and 1/4"

Cat. No.	Handle Length	Key Lengths
70583	5-1/4" (133 mm)	3-3/8" to 4-5/8" (86 to 117 mm)

VACO® HEX-KEY WRENCHES

HEX-KEY SETS



L-Style Hex-Key Pouched Sets

Convenient sets of hex keys, packed in press-lock seal-tight vinyl pouches. Keeps wrenches together, keeps dust and dirt out. For detailed hex-key specifications, see individual listings.

Cat. No.	Description and Contents
LLK12	7-Piece Foot-Long Set FL5 (5/64"), FL6 (3/32"), FL8 (1/8"), FL10 (5/32"), FL12 (3/16"), FL14 (7/32"), SL16 (1/4")

T-Handle Hex Keys

Note: 6" and 9" English measure T-handle hex-key lengths are nominal.



Individual T-Handle Hex Keys

T-Handle design delivers more power to hex-head fasteners. Handles have comfortable, molded-in finger grips. Cat. No. and hex size on handle for positive identification. Available in 6" length in both English and metric measure, and 9" blade length English measure.

9" Length (English Measure)

Cat. No.	Hex Size x Blade Length	Cat. No.	Hex Size x Blade Length
79206	3/32" x 7-1/4"	79212	3/16" x 7-1/2"
79207	7/64" x 7-1/4"	79214	7/32" x 7-1/2"
79208	1/8" x 7-1/4"	79216	1/4" x 7-1/2"
79209	9/64" x 7-1/4"	79220	5/16" x 7-1/2"
79210	5/32" x 7-1/4"	79224	3/8" x 7-1/2"

T-Handle Hex-Key Sets with Stand

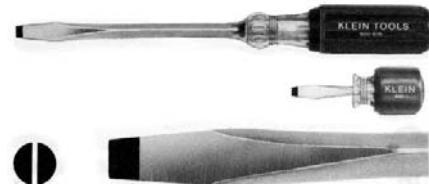
These sets are made up from the T-handle hex keys listed above: 6" English or metric, or 9" English-measure lengths. They are furnished complete with a rugged metal stand for convenient hanging or storage on a bench or wall.



Cat. No.	Description
70153	Set of ten 9" English-measure hex keys (No. 79206 thru No. 79224), plus metal stand.

KLEIN SCREWDRIVERS

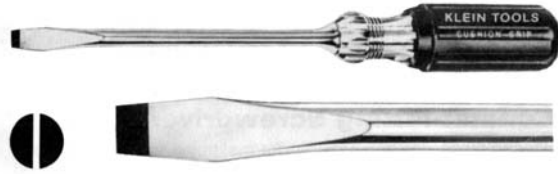
CUSHION-GRIP SCREWDRIVERS



Heavy-Duty Square-Shank, Keystone-Tip

Designed for the most demanding uses. With heavy-duty square shank for wrench-assisted turning. Keystone-tip.

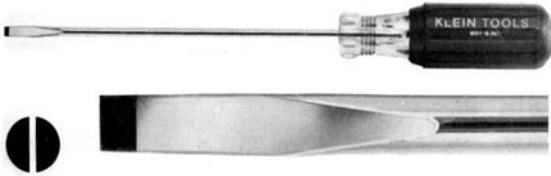
Cat. No.	Shank Tip Width x Shank Length	Overall Length
600-1	1/4 x 1-1/2 (6 x 38)	3-7/16 (87)
600-6	5/16 x 6 (8 x 152)	10-15/16 (278)



Heavy-Duty Round-Shank, Keystone-Tip

Built to handle the tough jobs with ease. Keystone-tip.

Cat. No.	Shank Tip Width x Shank Length	Overall Length
602-4	1/4 x 4 (6 x 102)	8-11/32 (212)
602-6	5/16 x 6 (8 x 152)	10-15/16 (278)



Round-Shank, Cabinet-Tip

Perfect for electrical and telephone work. Tip is no wider than shank diameter for use in recessed holes and other tight spaces.

Cat. No.	Shank Tip Width x Shank Length	Overall Length
601-4	3/16 x 4 (5 x 102)	7-3/4 (197)



Round-Shank, Special Profilated® Phillips-Tip

Tips are profilated to provide a more consistent geometric symmetry than conventional Phillips-tip screwdrivers. Provide more accurate fit and torque without slippage.

Cat. No.	Point Size	Shank Length	Overall Length
603-3	No. 1	3 (76)	6-3/4 (171)
603-4	No. 2	4 (102)	8-5/16 (211)



Magnetic Screwdriver Set

Each screwdriver has a powerful magnet built into its shank to hold interchangeable bits and also screws. Interchangeable bits store inside handle for quick access.

Cat. No.	Bits Included	Shank Length	Overall Length
70035	2 Slotted No. 1 & 2 Phillips	3-3/4"	7-1/4"

PLASTIC-HANDLE, SLOTTED SCREWDRIVERS



3/16-In. Round-Shank, Cabinet-Tip

Medium-duty screwdrivers well-suited for electrical and telecommunications work.

Cat. No.	Shank Tip Width x Shank Length	Overall Length
A316-4	3/16 x 4 (4.8 x 102)	7-5/8 (194)
A316-6	3/16 x 6 (4.8 x 152)	9-5/8 (244)
A316-8	3/16 x 8 (4.8 x 203)	11-5/8 (295)



1/4-In. Round-Shank, Keystone-Tip

Fills many job needs with a choice of lengths.

Cat. No.	Shank Tip Width x Shank Length	Overall Length
BD144	1/4 x 4 (6.3 x 102)	7-5/8 (194)
A416-6	1/4 x 6 (6.3 x 152)	9-5/8 (244)
A416-8	1/4 x 8 (6.3 x 203)	11-5/8 (295)

Stubby Screwdrivers

Allows work in close quarters. No. A132 has cabinet tip. No. A135 has keystone tip.



Cat. No.	Shank Tip Width x Shank Length	Overall Length
A132	1/4 x 1-1/4 (6.3 x 32)	3 (76)

PLASTIC-HANDLE, PHILLIPS-TIP SCREWDRIVERS

Stubby Round-Shank, Profilated® Phillips-Tip

Precision-fitted tips in stubby style for close-quarter work.



Cat. No.	Point Size	Shank Length	Overall Length
P5	2	1-3/8 (35)	3-5/8 (92)



1/8-In. Round-Shank, Cabinet-Tip

Small-diameter shank for use in recessed holes or tight places.

Cat. No.	Shank Tip Width x Shank Length	Overall Length
A216-4	1/8 x 4 (3.2 x 102)	7 (178)
A216-6	1/8 x 6 (3.2 x 152)	9 (228)
A216-8	1/8 x 8 (3.2 x 203)	11 (279)



Profiliated Phillips-Tip Screwdrivers – Round-Shanks

Oversized handle is 35% larger than comparable screwdriver handles. Delivers up to 50% extra power to perform tough jobs with minimum effort.



Cat. No.	Point Size	Shank Length	Overall Length
BD111	No. 1	3"	6-5/8"
BD122	No. 2	4"	8-1/2"
BD144	No. 3	6"	11-13/16"

Keystone-Tip Screwdrivers – Round-Shanks

Oversized handle is 35% larger than comparable screwdriver handles. Delivers up to 50% extra power to perform tough jobs with minimum effort.



Cat. No.	Shank Tip Width	Shank Length	Overall Length
BD158	5/16"	10"	13-3/16"

BULL DRIVER® PLASTIC-HANDLE SCREWDRIVERS

The most powerful screwdrivers you can buy. Over-sized handle is 35% bigger, delivering up to 50% extra power to perform tough jobs with minimum effort and maximum comfort. Bull Driver screwdrivers feature exclusive Comfordome® handle, fully fluted with chamfered edges for fatigue-free driving, plus durable chrome-vanadium tempered-steel shafts and nickel-chrome precision forged and polished blades with black tips.



Square-Shank, Keystone-Tip



Cat. No.	Shank Tip Width x Shank Length	Overall Length
BD284	1/4 x 4	8-1/2
BD286	1/4 x 6	10-1/2
BD306	5/16 x 6	11-3/16
BD308	5/16 x 8	13-5/16
BD310	5/16 x 10	15-3/16

LOCKING PLIERS

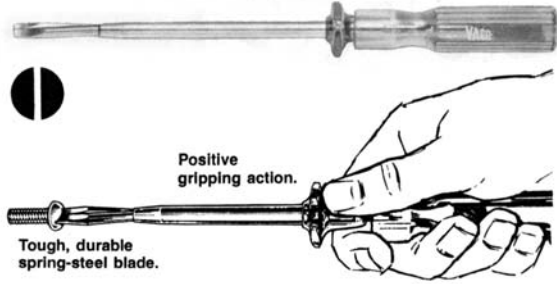


Klein-Lok® Pliers

Versatile 10" locking pliers. Rugged, powerful, a "must" for every tool user. Pliers adjust easily to lock at any size with desired amount of pressure. Release lever opens jaws fully. Can also be used as non-locking pliers. Top-grade alloy steel; heat treated for maximum strength and durability. Nickel-plated finish.

Cat. No.	Description
9001	10" (254mm) Straight Jaw Pliers

SCREW-HOLDING SCREWDRIVERS



Slotted Screw-Holding Screwdrivers

Split-blade screw-holding driver wedges into screw slot. Positive gripping action holds, starts and drives slotted screws in awkward, hard-to-reach places.

Cat. No.	Shank Tip Width x Shank Length	Overall Length
K36†	3/16 x 6 (4.8 x 152)	9-3/4

†Blade thickness of .043" expanding to .085".



Pocket-Clip Screwdriver

Each screwdriver has a powerful magnet built into its shank to hold interchangeable bits and also screws. Interchangeable bits store inside handle for quick access.

Cat. No.	Shank Tip Width	Shank Length	Overall Length
A116-3	3/32"	3"	5-7/16"

VACO® NUT DRIVERS

PLASTIC-HANDLE HOLLOW-SHAFT NUT DRIVERS

Vaco nut drivers meet or exceed current ANSI and MIL specifications. Patented shaft construction withstands high torque. Shafts on Vaco drivers are completely hollow, from the socket to the handle, to accommodate the longest stud. Sockets and shafts are specially heat treated for extra hardness. Exterior surfaces are finished in bright nickel-chrome for durability and corrosion resistance. Smooth Comfordome® handles fit the palm of the hand perfectly. Exclusive full-size top with no unfinished seams, no sharp edges to cause fatigue. Handles are break resistant, impervious to most acids and alkalis, and are full-fluted for better grip and driving torque. Edges are chamfered for comfort. Handles are color-coded for easy identification.



Individual 3-inch Shaft Nut Drivers

Cat. No.	Handle Color	Hex Size	Overall Length
S6	Black	3/16"	6-5/8 (168)
S8	Red	1/4"	6-5/8 (168)
S10	Amber	5/16"	6-5/8 (168)
S11	Green	11/32"	6-5/8 (168)
S12	Blue	3/8"	6-5/8 (168)
S14	Brown	7/16"	7 (178)
S16	Red	1/2"	7 (178)



KLEIN

PLASTIC-HANDLE HOLLOW-SHAFT NUT DRIVERS AND SETS



Individual 6-Inch-Shaft Nut Drivers

Cat. No.	Handle Color	Hex Size	Overall Length
S66	Black	3/16"	9-5/8
S86	Red	1/4"	9-5/8
S106	Amber	5/16"	9-5/8
S116	Green	11/32"	9-5/8
S126	Blue	3/8"	9-5/8
S146	Brown	7/16"	10
S166	Red	1/2"	10

Seven-Piece 6-Inch-Shaft Nut-Driver Set

Contains all seven 6-inch-shaft nut drivers above in a reclosable vinyl seal-tight pouch.



Cat. No. VA 89904



Magnetic Nut Drivers

Similar to standard nut drivers but with powerful nut-holding magnet built into shank. Features same quality materials and workmanship as hollow-shaft tools.

Cat. No.	Handle Color	Hex Size	Shank Length	Overall Length
S8M	Red	1/4"	3	6-5/8
S10M	Amber	5/16"	3	6-5/8
S86M	Red	1/4"	6	9-5/8
S106M	Amber	5/16"	6	9-5/8

Five-Piece 3-Inch-Shaft Nut-Driver Set

Set contains five hollow-shaft nut drivers and comes in a hang-up box.

Cat. No. VA 89969



Set Contains:

Cat. No.	Handle Color	Hex Size	Overall Length
S6	Black	3/16"	6-5/8
S8	Red	1/4"	6-5/8
S10	Amber	5/16"	6-5/8
S11	Green	11/32"	6-5/8
S12	Blue	3/8"	6-5/8

Stubby 1-1/4-Inch-Shaft Nut Drivers



Cat. No.	Handle Color	Hex Size	Overall Length
SS8	Amber	1/4"	3-3/4
SS10	Amber	5/16"	3-3/4
SS12	Amber	3/8"	3-3/4

MEASURING TOOLS

STEEL TAPES



Power-Return Tapes

Easy feed, positive lock and smooth power return. Thumb-action control knob placed for convenient, efficient use. Black numerals on yellow background. For inside and outside measuring. Tough DuPont Mylar coating resists abrasion, rust, most oils and acids; lasts up to 10 times longer than ordinary finishes. Tape graduated on both edges in 16ths, inches and feet. Stud markings indicated. Useful reference tables on reverse side of 10', 12' and 16' tapes. Chrome-plated case. Replaceable blade. Belt clip.

Cat. No.	Length	Width
922-12	12'	3/4"
922-16	16'	3/4"
928-25HV	25'	1"
922-30	30'	1"

Replacement Blades for tapes above

Cat. No.	Length	Width
923-20	20'	3/4"

FOLDING WOOD RULES



Standard Rules

Strong 6' long hardwood rules. Black markings on yellow, with stud center in red. Measurements are marked on both sides and both edges, graduated to 1/16th inch. Markings are imbedded in the wood and have a tough, clear abrasion-resistant coating. Riveted lock joints are designed for long wear and maintained accuracy. All metal parts are brass plated.

Cat. No.	Reading	Width
900-6	Inside	6'
901-6	Outside	6'

Benfield® BENDERS

CONDUIT BENDERS



Klein-Benfield® Benders

Fixed-radius, one-sweep design permits pinpoint precision even by inexperienced users. Has easy-to-read cast-in benchmark symbols and offset-degree scales on opposite sides, plus a countersunk and painted arrow and star to indicate beginning and back-of-bend locations. No. 51201 for 1/2" EMT only, also has 45° bend center-marker and cast-in offset formula in addition to the multipliers.

Cat. No.	For Thinwall (EMT) Conduit	For Rigid Conduit
51201	1/2"	-
51202	3/4"	1/2"



Drill Bits

HAMMER DRILLS

PART #	DIAMETER/ LENGTH	DRILL DEPTH
H1873	3/16 x 3	1-1/2"
H1876	3/16 x 6	4"
H25013	1/4 x 13-1/2	12"
H2504	1/4 x 4	2-1/2"
H2506	1/4 x 6	4-1/2"
H3126	5/16 x 6	4-1/2"
H37513	3/8 x 13-1/2	12"
H3756	3/8 x 6	4-1/2"
H37518	3/8 x 18	16-1/2"
H37524	3/8 x 24	22-1/2"
H50013	1/2 x 13-1/2	12"
H50018	1/2 x 18	16-1/2"
H50024	1/2 x 24	22-1/2"
H5006	1/2 x 6	4-1/2"
H6256-3/8*	5/8 x 6-3/8	4-1/2"
H6256	5/8 x 6	4-1/2"
H62513	5/8 x 13-1/2	13"
H62518	5/8 x 18	16-1/2"
H3756	3/4 x 6	4-1/2"
H75013	3/4 x 13-1/2	12"
H75018	3/4 x 18	16-1/2"
H7506-3/8*	3/4 x 6	4-1/2"
H7506	3/4 x 6	4-1/2"
H8756	7/8 x 6	4-1/2"
H10006	1 x 6	4-1/2"
H10013	1 x 13	12"

*Shank Diameter

JOBBER LENGTH DRILLS

SOLID CARBIDE

PART #	SIZE/ IN.	OVERALL LENGTH
JL.062	1/16	1-1/2"
JL.078	5/64	1-3/4"
JL.093	3/32	2"
JL.109	7/64	2-1/4"
JL.125	1/8	2-1/4"
JL.140	9/64	2-1/2"
JL.156	5/32	2-1/2"
JL.171	11/64	2-3/4"
JL.187	3/16	2-3/4"
JL.203	13/64	3"
JL.218	7/32	3"
JL.234	15/64	3-1/4"
JL.250	1/4	3-1/4"
JL.281	9/32	3-1/2"
JL.312	5/16	3-3/4"
JL.343	11/32	4"
JL.375	3/8	4-1/4"
JL.406	13/32	4-1/2"
JL.437	7/16	4-1/2"
JL.468	15/32	4-3/8"
JL.500	1/2	4-3/8"



BELL HANGER BITS



PART#	SIZE
BH25018	1/4 X 18"
BH25024	1/4 X 24"
BH25036	1/4 X 36"
BH37518	3/8 X 30"
BH37524	3/8 X 24"



HAMMER TOOLS

COLD CHISEL

PART#	SIZE
CF12	1 x 12"
CF18	1 x 18"

MOTAR REMOVING CHISEL

PART#	SIZE
CM015	11/8 x 18"

BULL POINT

PART#	SIZE
CM12	12"
CM18	18"

SCALING CHISEL

PART#	SIZE
CS12	2" x 12"
CS18	2" x 18"

JOBBER LENGTH DRILLS

SOLID CARBIDE

PART #	SIZE/ IN.	OVERALL LENGTH
JL.062	1/16	1-1/2"
JL.078	5/64	1-3/4"
JL.093	3/32	2"
JL.109	7/64	2-1/4"
JL.125	1/8	2-1/4"
JL.140	9/64	2-1/2"
JL.156	5/32	2-1/2"
JL.171	11/64	2-3/4"
JL.187	3/16	2-3/4"
JL.203	13/64	3"
JL.218	7/32	3"
JL.234	15/64	3-1/4"
JL.250	1/4	3-1/4"
JL.281	9/32	3-1/2"
JL.312	5/16	3-3/4"
JL.343	11/32	4"
JL.375	3/8	4-1/4"
JL.406	13/32	4-1/2"
JL.437	7/16	4-1/2"
JL.468	15/32	4-3/8"
JL.500	1/2	4-3/8"



SPLINE SHANK BITS

PART #	SIZE/ IN.	DRILL DEPTH
PB37512	3/8 x 12	6"
PB37518	3/8 x 18	12"
PB50018	1/2 x 18	12"
PB100012	1 x 12	6"
PB100018	1 x 18	12"
PB100023	1 x 23-1/2	17-1/2"
PB100036	1 x 36	30"
PB150023	1-1/2 x 23-1/2	12-1/2"

CENTER PUNCH



PART#	SIZE
PU	3-1/2"

SCREW EXTRACTORS



PART#	SIZE
SXS#1-#5	3/32-1/4

TAPCON COMPATIBLE DRILL BITS

PART#	SIZE
DF1565	5/32 x 5-1/2
DF1875	3/16 x 5-1/2

13pc DRILL SET METAL INDEX

PART#	SIZE
M13	1/16 - 1/4



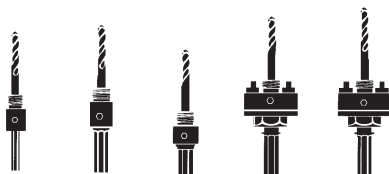
Hole Saws / Vari-Bits

Bi-Metal

4/6 Vari-Tooth®, Positive Rake
1-1/8" Cutting Depth



PART #	DIAMETER	MANDREL
SH.625	5/8"	
SH.750	3/4"	SHM5514
SH.875	7/8"	SHM5516
SH1.0	1"	SHM5518
SH1.062	1-1/16"	
SH1.125	1-1/8"	
SH1.250	1-1/4"	Any Mandrel Below
SH1.375	1-3/8"	
SH1.500	1-1/2"	
SH1.625	1-5/8"	
SH1.750	1-3/4"	SHM5573
SH1.875	1-7/8"	SHM5545
SH2.0	2"	
SH2.125	2-1/8"	
SH2.250	2-1/4"	
SH2.500	2-1/2"	SHM5573
SH2.625	2-5/8"	SHM5545
SH3.0	3"	
SH3.250	3-1/4"	
SH3.500	3-1/2"	
SH3.625	3-5/8"	SHM5573
SH3.750	3-3/4"	SHM5545
SH4.0	4"	
SH4.125	4-1/8"	
SH4.250	4-1/4"	
SH4.500	4-1/2"	SHM5573
SH4.750	4-3/4"	SHM5545
SH5.0	5"	
SH6.0	6"	



SHM5514 SHM5516 SHM5518 SHM5545 SHM5573

MANDRELS

PART #	SIZE/ IN.	SHANK SIZE
SHM5514	9/16x1-1/2"	1/4" RND
SHM5516	9/16x1-1/2"	3/8" HEX
SHM5518	9/16x1-1/2"	7/16" HEX
SHM5545	1-1/4" x 6"	7/16" HEX
SHM5573	1-1/4" x 6"	5/8" HEX

ACCESSORIES

PART#	SIZE
SHA5500	12" Extension
SHA5511	Mandrel Adpt.

#SHJ92 Journeyman's Kit

A delux plumber's kit containing 9 Bi-Metal HSS Hole Saws Covering tap sizes 1/2" to 2" Diameters 3/4" - 2-1/2" SHM5514 & 5545 Mandrels plus 5511Mandrel Adapter.



quick release



30006-6L

One Tooth available



Carbide Tipped
Heat Resistant Carbide Teeth
For use with ceramics or steel

PART #	SIZE/ IN.	ARBOR #
30216	1"	
30232	2"	6L
30234	2-1/8"	
30236	2-1/4"	
30240	2-1/2"	
30248	3"	6L
30252	3-1/4"	
30256	3-1/2"	
30258	3-5/8"	
30260	3-3/4"	6L
30264	4"	
30266	4-1/8"	
30268	4-1/4"	6L
30272	4-1/2"	
30276	4-3/4"	
30280	5"	6L
30296	6"	



Vari-Bits
Double fluted cutting surface, no pilot hole necessary.

PART #	HOLE SIZES IN.	CHUCK SIZE	NUMBER OF HOLE SIZES
30881	1/8" - 1/2"	1/4"	13
30883	1/4" - 3/4"	3/8"	9
30886	3/8" - 1/2"	1/4"	2
30887	7/8"	3/8"	1
30888	7/8" - 1-1/8"	3/8"	2
30912	7/8" - 1-3/8"	3/8"	5



Wood Boring Bits
Self-feeding, one peice construction.
Cutter blades welded to shank.

PART#	SIZE
WB100	1"
WB112	1-1/8"
WB125	1-1/4"
WB137	1-3/8"
WB150	1-1/2"
WB175	1-3/4"
WB200	2"
WB212	2-1/8"
WB256	2-5/8"



Reciprocating Blades & Hacksaws

RECIPROCATING BLADES

PART #	L x W	TEETH / IN.	RECOMMENDED USES	
656R	6 x 3/4"	6	wood, incl. nail embedded pipe, structural steel & stainless steel	
156R	12 x 3/4"	6		
956R	9 x 3/4"	6		
676RC	6 x 7/16"	6	wood contours	
606R	6 x 3/4"	6	wood, comp. mat.	
610R	6 x 3/4"	10	wood, non-ferrous metals	
810R	8 x 3/4"	10/14	wood, compositions	
614R	6 x 3/4"	14	heavy ga. metal	
618R	6 x 3/4"	18		
318R	3 x 1/4"	18	Metal under 1/8"	
424R	4 x 3/4"	24	Metal & galvanized	
624R	6 x 3/4"	24	Pipe 18 ga. & under	
636RP	6 x 3/4"	6	Plaster board	
966R	9 x 7/8"	6	Demolition	
960R	9 x 7/8"	10	Steel; 3/16" - 3/4"	
650R	6 x 3/4"	10/14	Steel; 1/8" - 1"	

Hand Saw



Hackmaster® High Tension Hand Hacksaw Frame

With 12" blade. Tension to 28,000 psi. The finest frame you can buy.
PART #20918-4012

Tri-Fold Saw



Heavy duty aluminum handle with 6" reciprocating saw blade. Locks in 3 positions as well as folding safely into handle.

PART #20992-3636 Wood & Drywall
#20933-3618 Metal

Close Quarter Saw



Rigid solid bar construction, cuts where other saws can't. Hardened carbon blade.

PART #20908-908

RIDGID® Pre-Tested Work Saver Tools

Heavy-Duty Pipe Wrenches



The original heavy-duty pipe wrench, known for its serviceability. Replaceable jaws are made of hardened alloy steel. Full floating hook jaw gives instant grip and release. Handy pipe scale and large easy-to-spin adjusting nut allow fast, one-hand setting to pipe size. Comfort grip, malleable iron I-beam handle.

Catalog No.	Wrench Size	Cap. In.	Wt. Lbs.
31000	6"	3/4	1/2
31005	8"	1	3/4
31010	10"	1-1/2	1-3/4
31015	12"	2	2-3/4
31020	14"	2	3-1/2

Aluminum Handle Straight Pipe Wrenches



Aluminum handles make these heavy-duty wrenches almost 40% lighter than similar wrenches with malleable iron handles. Parts are identical to those of RIDGID Straight Pipe Wrenches. Ideal for over head work. Also available with special hook and heel jaws for plastic pipe.

Cat. No.	Model No.	Wrench Size	Capacity	Wt. Lbs.
31090	810	10"	1-1/2"	1
31095	814	14"	2"	2-1/3
31100	818	18"	2-1/2"	3-2/3
31105	824	24"	3"	6
31110	836	36"	5"	11
31115	848	48"	6"	18-1/2

Heavy-Duty Offset Pipe Wrench



These wrenches are just as strong as regular RIDGID heavy-duty wrenches of the same size. Jaw opening parallels handle making these ideal wrenches for fast, easy, one-hand operation overhead or in tight places. Spring suspended hook jaw gives tight grip, fast release. Narrow jaw head fits into close quarters. Adjusting nut turns easily for fast size adjustment.

Cat. No.	Wrench Size	Capacity	Wt. Lbs.
89440	18"	1/4" thru 2-1/2"	5-3/4

End Pipe Wrenches



Designed with an offset jaw and longer handle swing to ease work in tight places, these wrenches offer the quality features of famous RIDGID Straight Pipe Wrenches: replaceable jaws, full floating hook jaw, easy-spin adjusting nut, pipe scale and malleable iron I-beam handle.

Catalog No.	Wrench Size	Cap. In.	Wt. Lbs.
31075	E-18	2-1/2	5-3/4

Compound Leverage Pipe Wrenches



Gives you many times the turning power of a regular pipe wrench of equal jaw capacity. Turns frozen pipe or fittings, pays for itself quickly in salvaged fittings alone. Short handle and short turning action are handy in close quarters, on concealed piping, close under floors, against walls or in narrow trenches.

Cat. No.	Model No.	Pipe Capacity	Wt. Lbs.
31380	S-4A	5"	33-1/2



Chain Wrenches Light & Heavy Duty

The design of these rugged wrenches makes it easier to work in extra close quarters...on round, square or irregular shapes. Fast ratchet-like action lets you work from either side. Hardened alloy steel jaws are replaceable. Tempered steel chain is held securely in double lock grips, releases quickly.

Cat. No.	Model No.	Capacity		Chain Length	Wt. Lbs.
		Rated	Actual		
31310	C-12	2"	4"	15-3/4"	1-3/4
31320	C-18	2-1/2"	5"	20-1/4"	6
31325	C-24	3"	5"	20-1/4"	8

Drop Head Ratchet Threaders



Nos. 12-R Exposed Ratchet

Unusually handy, efficient drop-head dies. Head locks in or releases by pull of ratchet knob. Separate sets of alloy steel chaser dies, quickly removed or reversed for close-to-wall threads. Unless otherwise specified NPT dies are furnished.

Cat. No.	Model No.	Capacity	Wt. Lbs.
36345	00-R	1/2" - 1"	10
36475	12-R	1/2" thru 2"	34-3/4

Drop Head Replacement Dies

12-R Right Hand Thread

PART#	SIZE
37480	1/2"
37485	3/4"
37490	1"
37495	1-1/4"
37500	1-1/2"
37505	2"

00-R Right Hand Thread

PART#	SIZE
36940	1/4"
36945	3/8"
36950	1/2"
36955	3/4"
36960	1"



Ratchet & Handles

PART#	SIZE
38545	11R
38555	12R

Nos. 2-A Heavy-Duty Pipe Cutters

Gives fast, clean pipe cutting by hand or power. Extra long shank protects adjustment threads. Extra large handle for quick, easy adjustment. Balanced frame of special malleable iron. Equipped with tough blade cutter wheel. Can convert to 3-wheel cutter by replacing rollers with cutter wheels.



Cat. No.	Model No.	Capacity	Wt. Lbs.
32820	2-A	1/8" thru 2"	7-1/4

No. 202 Wide-Roll Pipe Cutter

Featuring extra wide rolls, this Heavy-Duty Cutter is especially designed for use with Power Drives. Wide rolls prevent cock or wobble of cutter for perfect tracking, cleaner cuts. Capacity 1/8" through 2".



Cat. No.	Model No.	Capacity	Wt. Lbs.
32895	202	1/8" thru 2"	7-3/4

4-Wheel Pipe Cutters

These 4-wheel cutters are designed for work in areas where a complete turn is impossible. No. 42-A has short handle for use in extra-tight places where only a quarter turn can be made.



Cat. No.	Model No.	Capacity	Wt. Lbs.
32870	42-A	3/4" thru 2"	7

Pipe Cutter Wheels

Cat. No.	Model No.	Type	For RIDGID Pipe Cutter Nos.
33105	F-3	Thin	2-A, 42A, 202



Quick-Acting Tubing Cutters

Model 152 feature a quick-acting design, I-beam construction, hardened wear surfaces and thrust bearing slide assemblies for smooth operation. These cutters are available in models for plastic pipe or metallic tubing.



Cat. No.	Model No.	Description/Capacity	Wt. Lbs.
31642	152	1/4" through 2-5/8" O.D.	2

Enclosed Feed Screw Tubing Cutter



Grooved Rollers for Close Flare Cut-Offs

No. 150 and No. 205 feature an enclosed feed screw to eliminate clogging and jamming, grooved rolls for close-to-flare cuts, and a fold-away reamer. No. 205 has a Quick Acting Feed mechanism. Made from high-strength aluminum alloy with a spare cutter wheel in the handle. Cuts copper, brass, and aluminum tubing, and thin-wall conduit.

Cat. No.	Model No.	Description/Capacity	Wt. Lbs.
31622	150	1/8" through 1-1/8" O.D.	7/8
33055	205	1/4" through 2-3/8" O.D.	1-3/4

65R-TC Jam-Proof Ratchet Pipe Threaders

True-Centering workholder — sets instantly, flip of lever tightens all 3 jaws together — true threads even on over- or - under size pipe. Easy adjustment for drip threads. TC workholder available for old 65-R's. Threads 1", 1-1/4", 1-1/2" & 2" pipe with 1 set of high-speed dies — sets to correct size in 8 seconds. Jam-proof — kicks out automatically — no watching. Right hand only.



Cat. No.	Model No.	Capacity	Wt. Lbs.
36570	65R-TC	1", 1-1/4", 1-1/2", 2"	27
38100	Set of Dies	1" - 2"	

Geared Pipe Threaders

No. 141 for 2-1/2", 3", 3-1/2" & 4" Pipe and Conduit with 1 set of dies.

Jam-proof for safe power or hand threading. Drive pinion kicks out automatically. Just one set of High-Speed dies threads 4 sizes of pipe and conduit. No die sets to change or lose. Die size selector plate sets quickly and locks at desired size. Each adjustment for tapered, straight, over or under size threads. Fast-action, cam-type. Set screw holds work centered for true threads. Fully enclosed, protected gear.

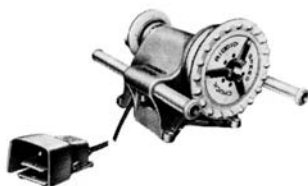


Cat. No.	Model No.	Description	Wt. Lbs.
36620	141	With 1 Set of Dies	93
38120		Dies 2-1/2" - 4"	

No. 300 Power Drive

**Lightweight • Heavy-Duty
Full 2" Capacity • All-Metal
Construction**

Ideal for bench, truck or stand mounting. RIDGID Speed Chuck holds tight, forward or reverse...integral foot switch for safer operation...replaceable jaw inserts...all-metal, one-piece hand wheel...2 tool support bars...1/2 h.p. 115V. Universal, reversible motor. 230 V. motor available at no extra cost. 3-jaw, cam-action, rear centering device keeps pipe straight for true threads and cuts. Capacity 1/8" thru 2" pipe and conduit, 1/4" thru 2" bolts and rod, also plenty of power for geared tools.



Cat. No.	Model No.	Description	Wt. Lbs.
41855	300	Power Drive	85-1/2

**No. 1206 Stand for
No. 300 Power Drive**

When you take your RIDGID 300 Power Drive out on the job, here's just what you'll need for easy portability and time-saving work base. Integral folding legs and tray are extra rigid when opened for use...fold and chain lock closed for easy carrying...no loose parts.



Cat. No.	Model No.	Description	Wt. Lbs.
42360	1206	Stand for 300 Power Drive	29

No. 32 Transporter

Effortless transportation — Rugged 2-wheel Transporter attaches to RIDGID 200 or 300 Power Drive or Tristand Vises in a matter of seconds.



Mfrs. Code No. 785461

Cat. No.	Model No.	Description	Wt. Lbs.
42575	32	Transporter	14-1/4

Bench Chain Vise

Crank handle is anchored to base. Rugged cast-iron base has handy pipe rest and bender. Capacities of 1/8" through 8".



Cat. No.	Model No.	Description	Wt. Lbs.
40185	BC210	Top screw	7-3/4

**Accessories for No. 300
Power Drive**



811-A Dies

PART#	SIZE
47765	1/2" - 3/4"
47750*	1" - 2"
47770	1" - 2"

*Alloy

No. 811 A Quick-Opening Die Heads

RIDGID Universal Quick-Opening Die Head or No. 815 Self-Opening Die Head snap-locks into carriage quickly, easily...eliminates slow back-off. Single adjustment on carriage centers die heads for true threads.

Cat. No.	Model No.	Description	Wt. Lbs.
97065	811A	Pipe — 1/8" thru 2" Bolt — 1/4" thru 2"	12-1/2

No. 311 Carriage with Lever for No. 300 Power Drive

Slip this strong carriage on your RIDGID 300 Power Drive, with 2 support bars, and you'll get fast cut-and-thread efficiency. Holds die head, cutter and reamer at your fingertips exactly like a Pipe Machine. No tools to drop. Easy sliding...snugs right up to chuck for close threading and cut-off. Die head and cutter operate independently...swings up and stays out of way when not in use. Add a RIDGID No. 819 Nipple Chuck, and you can thread close nipples.

Cat. No.	Model No.	Description	Wt. Lbs.
68815	311	Carriage with Lever	15-1/2

No. 360 Cutter

1/8" through 2" Pipe, 1/4" through 7/8". Rod with No. 1 & 2 Wheels, 5/16" through 1" Rod with E-1032 Cutter Wheel Full-floating, wheel-type cutter...wide rolls for straight cuts at Pipe Machine speed. Attaches easily with swivel drive pin. Fits 311 Carriage.

Cat. No.	Model No.	Description	Wt. Lbs.
42370	360	Cutter for No. 311 Carriage	8-1/2

No. 312 Carriage Lever

RIDGID No. 312 Carriage Lever gives fast, easy positioning of die head, cutter or reamer...increases leverage for quicker threading and reaming.

Cat. No.	Model No.	Description	Wt. Lbs.
42385	312	Carriage Lever	3-1/4



No. 40-A Tristand Yoke Vise

A portable work bench with integral steel tray and legs that fold for easy carrying. Tray makes it extra rigid when set up. Large vise base overhangs front legs so threader handles swing clear - lots of room for dope pot, oil can, slots for hanging tools; pipe rest, three pipe benders, ceiling brace screw for extra rigidity. Efficient yoke vise, alloy steel jaws, hardened for firm grip and long wear.



Cat. No.	Model No.	Description	Wt. Lbs.
40130	40-A	1/8" thru 2-1/2"	48-1/2

Thread Cutting Oil

Finest quality, special purpose sulphurd cutting oil that cools, speeds metal removal, produces smooth, clean threads, prevents chips from welding to dies. An exactly formulated combination of petroleum oils and special additives. Will not congeal at 20°F. Comparative tests prove the superiority of RIDGID Thread Cutting Oil. Excellent for drilling, turning and other metal cutting operations but should not be used for lubricating. Available in Dark and Nu-Clear.



Size Container	Nu-Clear Cat. No.	Dark Cat. No.	No. Per Case	Wt. Lbs. to Case
1 qt.	41565	41590	12	28
1 gal.	70835	70830	6	50

No. 418 Oiler

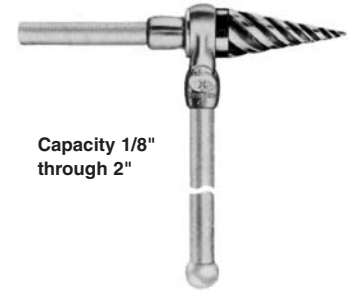
The 418 oiler features a patent pending fastenerless twist and lock drip pan that easily locks in place. The material withstands abrasion, is lighter than metal and does not rust. The reservoir will not crack or leak.



Cat. No.	Model No.	Description	Wt. Lbs.
72327	418	Hand operated oiler complete. 1 gal. cutting oil, reservoir 54" hose	20
72332	#4	Hand operated oiler only	1-1/4

No. 2-S Spiral Ratchet Pipe Reamer

Special spiral design of 2-S Reamer cuts into metal with least effort — fast, clean cuts, long cutting life. Makes easy, time-saving work of reaming pipe or enlarging conduit box outlets. Reams sheet metal — smooth and easy without chatter. Complete with handle. Reamer unit available alone for use in RIDGID No. 00-R ratchet handle.



Capacity 1/8" through 2"

Cat. No.	Model No.	Description	Wt. Lbs.
34955	2-S	Spiral Reamer Complete	7-1/4

Ratchet Pipe Reamers

Reams fast, clean, with light pressure. Long-taper design won't dig in...safe for Power Drive use. Heat-treated cutting edges stay sharp. Complete with handle. Reamer Units available. No. 2 fits 00-R Ratchet and Handle; No. 3 fits 111-R Ratchet and Handle.



Capacity No. 2 1/8" through 2"

Cat. No.	Model No.	Description	Wt. Lbs.
34945	2	Straight Reamer Complete	7

Pipe Taps

Carbon Steel Right Hand Only



Made of special carbon tool steel, taps are available with American Standard (N.P.T.) right hand taper pipe threads.

Cat. No.	Model No.	Size – Threads/Inch	Wt. Lbs.
35815	E-5112	1/8" - 27	1/16
35820	E-5113	1/4" - 18	1/8
35825	E-5114	3/8" - 18	1/4
35830	E-5115	1/2" - 14	1/4
35835	E-5116	3/4" - 14	1/2
35840	E-5117	1" - 11-1/2	1
35845	E-5118	1-1/4" - 11-1/2	1-1/4
35850	E-5119	1-1/2" - 11-1/2	2
35855	E-5120	2" - 11-1/2	3-1/4

RIDGID® Pre-Tested Work Saver Tools

Midget Tubing Cutters

For up to 15/16" O.D. Tubing in Extreme Close Quarters



These tubing cutters are specifically designed for use in extra close quarters on small size hard and soft copper, aluminum, brass and plastic tubing. Two rollers opposite cutter wheel permit easier rotation and faster cutting. Slide and wheel housing are strong and light weight. Large, knurled feed screw knob gives easy control of cutting pressure for cleancuts.

Cat. No.	Model No.	Capacity	Turning Radius	Wt. Lbs.
40617	101	1/4" - 1-1/8" O.D.	2-1/16"	1/2
32985	104	1/8" - 15/16" O.D.	1-11/16" max.	1/4

Hammer-Type Flaring Tools

These hardened steel tools produce uniform flares in all tube including stainless steel. Light weight, hollow construction, transmits full hammer impact to tube.



Cat. No.	Model No.	Capacity	Wt. Lbs.
41335	E-52	1" Water Tube	3/4

Swaging Tools

RIDGID Swaging Tools are quality made and zinc plated for accuracy and durability. The set of four tools is packaged in a handy vinyl pouch. Each tool is also available separately. Capacities: 1/4", 3/8", 1/2", 5/8" O.D. For copper, aluminum or brass.



Cat. No.	Model No.	Capacity	Wt. Lbs.
52420	570 Kit	Includes-562, 563, 564, and 565	1

Flaring Tools

One Integral Unit...Parts can't get lost



These advanced-design RIDGID Flaring Tools give smooth, uniform flares...faster, too...with minimum effort, even on large sizes. Large, comfort-grip feed screw handle turns easily. Hardened steel flaring cone, eccentrically mounted in precision bearings, produces rolling action for even metal flow...gives uniform flare walls without galling. Flare can then be ironed by continued cone action. Heat treated flaring bars are precision-ground. Tubing hole sizes are clearly marked. Rugged yokes slide to desired size. Yoke clamp screw fits into centering hole...locks bars, yoke and tubing into alignment. Stop pins keep yoke on flaring bars at all times.

All Flaring Tools listed immediately below are recommended for soft materials such as aluminum and soft copper. No. 454-W, No. 455 and No. 375 will also flare steel, stainless steel, hard copper and brass. No. 454-W will also flare plastic water tube.

Cat. No.	Model No.	Type	Sizes (in.)	Wt. Lbs.
83037	458	45°	1/8, 3/16, 1/4, 5/16, 3/8, 1/2, 5/8, 3/4	3-1/2

Sledge Hammers

Hickory Handles



Cat. No.	Model No.	Description	Length	Head Wt.
52495	250	Short Handle Sledge	15-1/2"	2-1/2 lb.

No. 1203 Jab Saw



This rugged saw is extra handy for those hard to get at sawing jobs. Handle is rugged aluminum casting. Backbone and clamping insert are tempered steel. The saw comes equipped with a RIDGID No. 1024-A Hack Saw Blade. However, any make or size, even broken blades, can be used depending on the cutting job.

Blade can be used extended for deep cuts. Or, it can be extended and flexed for cuts flush to any surface.

Cat. No.	Model No.	Description	Wt. Lbs.
35995	1203	Jab Saw	3/4

TurboTorch®

Nitrogen Regulators

Purging Regulators

TurboTorch offers nitrogen and carbon dioxide purging regulators in easy to read 2" / 51 mm gauges. Constructed of forged brass, they are designed for testing and purging brazed joints. These regulators are recommended by many air conditioning code organizations for joint testing at commercial job sites.



PART NO.	High Pressure Gauge Range P.S.I.G.	Low Pressure Gauge Range P.S.I.G.	Delivery Range P.S.I.G.
245-03P	4000	600	0-500



MT1

- MAPP® Gas replacement tank for use with TurboTorch dual fuel hand torches. Also use with TurboTorch #TT-LP Leak Detector.
- Contains 16oz. of MAPP® Gas.
- CGA 600 Connection
- Non-Refillable

SWIRL AIR ACETYLENE KITS ACETYLENE TIPS & COMPONENTS



X3B Kit

Flexible kit brazes light/medium gauge steel.

Components:

- AR-B (CGA 520) Regulator
- G-4 Handle
- AH-12Hose
- A-3 Tip
- A-11 Tip
- Soft solders to 3" (75mm)
- Silver brazes to 1-5/8" (40mm)
- "B" Tank Connection
- Instruction Manual



X4B KIT

Higher capacity kit brazes medium/heavy gauge steel.

Components:

- AR-B (CGA 520) Regulator
- G-4 Handle
- AH-12 Hose
- A-5 Tip
- A-14 Tip
- Soft solders to 3-1/2" (90mm)
- Silver brazes to 2" (50mm)
- "B" Tank Connection
- Instruction Manual



A3

A5

A8



A-11

A-14



SA Snappy Adapter

Screws into Sof-Flame or other threaded handles adapting it to the TurboTorch Quick Disconnect tips. Provides the advantages of TurboTorch at lowest cost.



Acetylene Hose AH12

3/16" I.D. with 3/8" 24-thread LH nuts. G-4 handle, AR-B (CGA-520) & AR-MC (CGA-200) regulators. AH-12, 12 ft. (3.6m) hose lowest cost.



G-4 TurboTorch Handle

Handle with valve and quick disconnect. Fits all TurboTorch and Proline tips. Uses "OH" replacement O-rings. 3/8"-24 "A" Size 3/8"-24 Hose Connection.



Acetylene Regulators ARB, ARMC

Brass construction, adjustable with contents gauge. AR-B (CGA-520), fits "B" tank & 3/8" 24-thread LH hose nut. AR-MC (CGA-200) fits "MC" tank & 3/8" 24-thread LH hose nut.

TIP NO.	TIP SIZE		GAS FLOW		COPPER TUBING SIZE	
	IN.	MM	@14 PSI FT ³ /HR.	(0.9 BAR) M ³ /HR.	SOFT SOLDER IN.	SILVER IN.
A-3	1/4	6.4	3.6	.31	1/4 - 1	1/8 - 1/2
A-5	5/16	7.9	5.7	.48	3/4 - 1-1/2	1/4 - 3/4
A-8	3/8	9.5	8.3	.71	1 - 2	1/2 - 1
A-11	7/16	11.1	11.0	.94	1-1/2 - 3	7/8 - 1-5/8
A-14	1/2	12.7	14.5	1.23	2 - 3-1/2	1 - 2



PL-12A

**Pro-Line Swirl Air
Self Lighting Acetylene Tips**

TIP NO.	TIP SIZE	GAS FLOW	COPPER TUBING SIZE	
	IN.	@14 PSI SCFH	SOFT SOLDER IN.	SILVER IN.
PL-12A*	3/8	9	2 - 4	1 - 2

*Full kits available.
PL-5A kits available w/ MC fitting.

MAPP® & PROPANE SELF LIGHTING TORCHES

Patented swirl combustion gives you the best burn in a self-lighting package. The flame tube swivels 180° for easy positioning.



14016 Self-Lighting Torch

- Features:**
- Maximum targeted heat output
 - Swirl flame
 - Trigger start self-igniting
 - Piston regulator provides consistent performance
 - Durable cast aluminum housing

OXYGEN-FUEL CUTTING & BRAZING EQUIPMENT

110-01FP



Components:

- 221-05FP Oxygen Regulator CGA-540
- 201-05FP Acetylene Regulator CGA-200
- 103-01FP Handle with Flash Arrestors
- 151-01FP Cutting Attachment
- 163-01P "B" to "A" Adapter
- 000-W-1, 0-W-1 & 2-W-1 Nozzles
- 0-3-101 Cutting Tip
- 252-03P 3/16" A Size x 12-1/2' ft. Twin Hose
- 251-01P Goggle
- 141-01 Carrying Case & Instruction Booklet

TL-5A TurboLite® Self-Lighting Torch



TL-5A-B TurboLite® Self-Lighting Torch Kit



- Components:**
- TL-5A Torch
 - AR-B Regulator, CGA-520
 - AH-12 Hose

PLASMA CUTTER TPC-18 18" Cutting System



Components:

- Output: 12 amps fixed
 Input: 120 Volts (+/-10%)
 1 Phase, 60 Hz, 20 Amps
- Cut Capacity: 1/8" (3.2mm)
 Duty Cycle: 30%
 Panel Controls: On/Off Lighted
 Dimensions: Height: 10" (254mm)
 Width: 9" (229mm)
 Length: 16" (406mm)
- Weight: 63 lb (25Kg)
 Gas: Air from built in air compressor
 Pilot: Electrode to Tip
 Control: Torch mounted switch
 Lead Length: 20 ft (6.1m)



HAND TORCHES MAPP® and PROPANE GASES

STK9 Kit (0386-0403)

- Components:**
- STK-R Pressure Regulator CGA-600
 - ST-3 Tip
 - Instruction Manual

BRAZING & SOLDERING ALLOYS



BF1



AK1

Brazing Alloys for Maintenance on Steel Products

BF-1 Bronzeflow (0386-0422) (for steel materials other than stainless steel - available in 1 lb. or 25 lb. package) Brazing range 1595-1620°F (868-882°C) for low fuming bronze. Ideal for maintenance repairs on plumbing and heating. Tensile strength - 63,000 psi. Meets AWS A5.8, ASTM B-259, Federal QQR571B, MIL-R-19631 B specifications.

Aluminum Brazing Alloy

AK1 (0386-0423) Aluminum brazing alloy rod and flux for aluminum products, even anodized aluminum. Ideal for refrigerant coil and tubing repair. Kit includes rod and self-cleaning flux.



Leak Detectors

TIF8800A COMBUSTIBLE GAS DETECTOR

The TIF8800 is a highly reliable broad-band combustible gas detector extremely useful as a general purpose tool in any environment where gasoline, propane, natural gas or fuel oil is used. In conjunction with specific carbon monoxide measuring equipment, it is a valuable adjunct in diagnosing heating system problems.

This instrument has many applications such as checking for arson, manholes for safety, faulty and leaking automobile exhaust systems, etc... This instrument provides a unique audible alarm signal that increases to a siren as the gas leak is approached.

FEATURES

- Automatic warm-up
- Audible "geiger counter" signal
- Adjustable sensitivity
- Cordless operation
- Low battery indicator
- Long, flexible probe
- Includes Deluxe Carrying Case

Materials the 8800 will respond to:

HYDROCARBONS

- Methane (natural gas) • Ethane
- Propane • Benzene • Acetylene
- Butane • N-Butane • Isobutane
- Pentane • Hexane • Gasoline
- Toluene • Naptha

HALOGENATED HYDROCARBONS

- Methyl Chloride • Melhylene Chloride
- Trichloroethane

- Vinyl Chloride
- #### ALCOHOLS
- Methanol • Ethanol • Propanol
 - Butanol

ETHERS

- Methyl Ether

KETONES

- Methyl Acetate • Methyl Ethyl Ketone
- Acetone

OTHER COMPOUNDS

- Suffer Dioxide • Ammonia
- Hydrogen Sullide • Hydrogen
- Toluene • Naptha • Chlorine

CHEMICALS

- Industrial Solvents • Dry Cleaning Fluids
- Lacquer Thinners



Replacement Parts

Sensing Tip...Part #TIF8801

Battery Recharger (115V)
Part #TIF8803A

Battery Recharger (220V)
Part #TIF8806B

Carrying Case...Part #TIF8804

2 (2.4V) Ni-Cad Batteries
Part #TIF8806A

TIFH10A A/C PUMP STYLE REFRIGERANT LEAK DETECTOR

The TIF8500A is a professional grade service tool for accurate measurements of Carbon Monoxide (CO) levels in any environment or application, including ambient, appliance surroundings and furnace flues. The TIF8500A has an industry first, "Voice" feature which allows the unit to actually speak out the measured reading.

- High efficiency pump
- Powered by 115 volts
- Dual sensitivity positions
- Visual indicator in probe
- Built-in carrying case
- U.S. Patent #'s Re: 32,552





Infrared Thermometers & Electronic Scale

TIF7900 (w/ Low Temp Range)

INFRARED THERMOMETER

The quickTemp™ series of non-contact InfraRed (IR) Thermometers provides instant temperature readings on any surface. The special IR sensor measures the radiated and absorbed energy from a surface and translates it into an easy to read digital display of temperature. Simple one touch control permits continuous measurement and memory hold. Auto shut off circuit saves battery life. USA made with a one year warranty.

FEATURES

- Non-Contact Temperature Measurement of any surface
- Long Range, High Brightness Red Laser Targeting
- Instant response
- Auto Hold, Auto Power Off
- Wide temperature range
- ±2% Accuracy
- °F/°C switchable
- Easy to read 1/2" LCD
- 3:1 Optics
- Surface Mount Technology
- 9V Battery powered
- Durable Case
- Carrying Case Included

Warranty: One year warranty
 Battery Life: Approx. 40 hrs.
 Size: 3.50x8.00x2.00 inch
 Weight: 0.5 lb
 Safety: CE approved



TIF9010A

"SLIMLINE" ELECTRONIC SCALE

The TIF9010 Electronic Scale is a brand new, low cost alternative to current electronic charging meters. Its unique "slimline" design is less than half as thick as current units. With a weight capacity of 75 pounds (34Kg) it will handle a wide range of both standard and recovery cylinders.

The TIF9010 provides a simple means of measuring refrigerant into a system or into a recovery tank. One half ounce resolution and 2% accuracy far exceed that of "bathroom" type scales, currently the only low cost alternative. Compact in both size and price, the TIF9010 is completely portable and designed for tough in-field use. Less than 2 inches thick, under 4 pounds and powered by a single 9V battery the TIF9010 is ready to go anywhere.

FEATURES

- Designed for both charging and recovery
- Slimline design is ultra compact
- 75 pound (34Kg) maximum capacity
- 1/2 ounce resolution/accuracy
- Two simple controls
- 9V battery powers all functions
- Pounds/Kilograms selectable
- Can be used with ALL refrigerants
- Steel platform
- Independent control module
- Removable lid
- One Year Warranty
- Made in the U.S.A.





Analyzing Equipment

TIF8500A

CARBON MONOXIDE ANALYZER

The TIF8500A is a professional grade service tool for accurate measurements of Carbon Monoxide (CO) levels in any environment or application, including ambient, appliance surroundings and furnace flues. The TIF8500A has an industry first, "Voice" feature which allows the unit to actually speak out the measured reading.

FEATURES

- Tactile keypad controls
- Protective Rubber "Boot"
- 15" Stainless Probe, with 5' hose
- Field replaceable electrochemical sensor
- Measures level of Carbon Monoxide (CO) in any environment
- Voice feature for audible read out
- Field replaceable electrochemical sensor
- Rapid warm up
- Headphones included for high noise areas or for privacy
- Cordless and portable
- Ranges from 1 – 10,000ppm with resolution of 1 ppm



TIFVA500

DIGITAL HVAC ANALYZER

The TIF VA500A offers a range of features never before included in a single instrument. More than just an Anemometer, the VA500A measures all HVAC inlet and outlet variables, allowing an intelligent analysis of system performance. This one tool can replace up to four others, and eliminates the need for cumbersome flow hoods, psychrometers, etc. So easy to use, you will be performing complex measurements within minutes of unpacking the tool.

APPLICATIONS:

Ambient Temperature, Inlet and Outlet Temperatures, Cooling Efficiency, Ambient Humidity, Inlet and Outlet Humidity, (De-) Humidification Efficiency, Inlet and Outlet Velocity, System Balancing, Calibrating/Setting Vents, Airflow Measurements, Power Measurements (BTU), System Efficiency (BTU IN vs BTU OUT), System Adjustments, Performance Checks, Fan Adjustments, Blower Performance, Heating and Air Conditioning, Air Circulation and Exchange, Refrigeration, Industrial.

- Measures Temperature (°F) and Humidity (%RH)
- Measures Dew Point (°F)
- Measures Velocity (FPS) and Volume (CFM)
- Measures Power in BTU/HR
- Direct Readings – no additional calculations needed
- Allows measurement of rectangular and ROUND GRILLS
- Lightweight and Completely portable
- Three simple keypad controls operate ALL FUNCTIONS
- Low Battery Indication
- Audible and Visual Prompts
- Large 3/4" LCD Readout
- Memory holds cumulative volume (CFM) and power (BTU/HR) measurements
- Six foot connector cord to probe
- 9V Battery Operated
- Protective Carrying Case Included



Temperature Ranges:	23°F to 149°F (-5° to 65°C)
Humidity Ranges:	10-95% RH
Velocity Range:	2.6 to 49.2 FPS (0.8 to 15 m/sec)
Temperature Accuracy:	± 2°F
Humidity Accuracy:	± 3%
Dew Point Accuracy:	± 3%
Velocity Accuracy:	± 3% of rdg
Temperature Response Time:	< 5 secs
Humidity Response Time:	<10 secs
Velocity Response Time:	< 3 secs
Display:	4 digit 3/4" LCD
Coil Cord Length:	72 inches (1.8m)
Operating Temperature:	32°F to 122°F (0° to 50°C)
Power Supply:	One 9V Alkaline battery



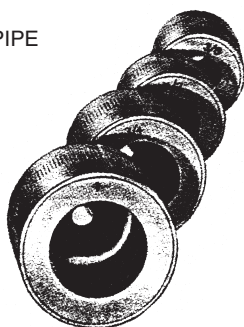
COPPER TUBE BRUSHES
FOR REFRIGERATION FITTINGS

PART #	SIZE / NOM.
924X	1/4"
925	3/8"
926	1/2"
927	5/8"
928	3/4"
929	7/8"
931	1-1/8"
932	1-3/8"
934	1-5/8"
935	2-1/8"



COPPER TUBE BRUSHES
FOR CLEANING THE OUTSIDE OF PIPE

PART #	SIZE ID / OD
963	1/8" / 1/4"
964	1/4" / 3/8"
965	3/8" / 1/2"
966	1/2" / 5/8"
967	5/8" / 3/4"
968	3/4" / 7/8"
970	1" / 1-1/8"

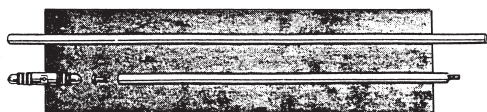


CONDENSER & HEAT EXCHANGER BRUSHES
BRASS WIRE TUBE BRUSHES SINGLE SPIRAL RECOMMENDED
FOR BRASS OR COPPER TUBES

PART #	BRUSH DIA / OD
43602	1/4"
43604	3/8"
43610	1/2"
43616	5/8"
43622	3/4"
43625	13/16"
43628	7/8"



CLEANING BRUSHES



EXTENSION HANDLES

FITS LINE NOS. 43500, 43600 & 43800

PART #	DIMENSIONS
13001	HANDLE
13002	24" w/MALE & FEMALE THREADS
13003	36" w/MALE & FEMALE THREADS
13044	4' ROD FOR 1/4" CONDENSER BRUSHES

ROUND FLUE BRUSHES

DOUBLE SPIRAL - THREAD NIPPLES

PART #	FLUE SIZE	BRUSH DIA/OD
43312	1-1/2"	1-1/4"
43316	2"	1-3/4"
43322	2-1/2"	2"
43326	3"	2-1/2"
43332	3-1/2"	3"
43336	4"	3-3/4"



FLUE BRUSH HANDLES

TWISTED GALVANIZED, WIRE
SEMI-FLEXIBLE WITH 1/4" NIPPLE & COUPLING

PART #	LENGTH
30658	6 FT.



BOILER BRUSHES

BLACK TEMPERED WIRE

PART #	BRUSH SIZE	LENGTH
46304	1/2" x 1" x 4"	4 FT.



Red Devil

Caulking Gun 3985

1/10 gallon, half-barrel with smooth rod and quick release mechanism. Holds most standard cartridges. Use for simple application of glazing, sealants, caulks, and other home improvement compounds. Labeled. 12 to Case.





CLEANING BRUSHES

NEW PARTS CLEANING BRUSH

POLYPROPLYENE BRISTLES

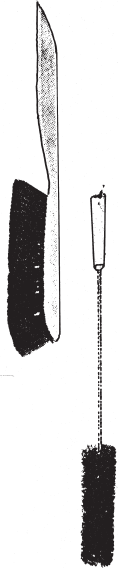
PART #	TRIM	LENGTH
25010	2-7/8"	12"



RADIATOR CLEANING BRUSHES

ONE ROW, FLAT LACQUERED WOOD HANDLE GENUINE BLACK HORSE HAIR

PART #	BRUSH LENGTH	OVERALL LENGTH
76020	9"	24"



TWISTED WIRE

PART #	BRUSH DIA/OD	BRUSH LENGTH	OVERALL LENGTH
76221	2-1/8"	7"	27"
76324	2-1/2"		
76524	2-1/2"		



DUCT CLEANING BRUSHES

DOUBLE SPIRAL BRASS WIRE

PART #	BRUSH DIA/OD	BRUSH LENGTH	OVERALL LENGTH
76200X	2-1/8"	7"	48"

ACID BRUSHES

TIN HANDLE

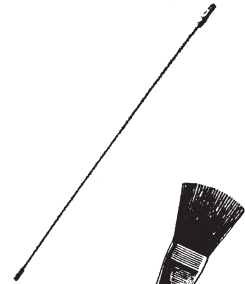
PART #	BRUSH WIDTH	OVERALL LENGTH
10002	1/2"	5"



EXTENSION HANDLES

THREADED NIPPLE ON ONE END
NIPPLE & COUPLING ON OTHER

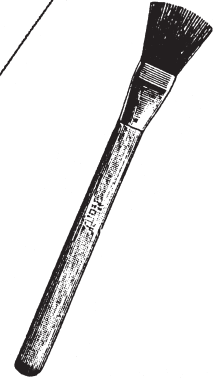
PART #	LENGTH
31458	6 FT.



DOPE BRUSHES

ROUND WOOD HANDLE

PART #	BRUSH WIDTH	OVERALL LENGTH
10007	3/4"	7"



CONDENSER FIN WHISK BROOMS

SYNTHETIC FIRES

PART #	BRUSH WIDTH	OVERALL LENGTH
2026	3-1/8"	7"



WIRE BRUSHES

WOOD HANDLE

PART #	BRUSH DIA/OD	BRUSH LENGTH	OVERALL LENGTH
81234	4	5"	10"



VARNISH BRUSHES

PLASTIC HANDLE

PART #	WIDTH	BRUSH LENGTH	BRISTLE LENGTH
67243	2"	3/4"	1-3/4"
67245	3"	7/16"	2"

