



PLIERS, CLAMPS AND SNIPS

The Proto[®] line of pliers, clamps, and snips is broad enough and tough enough to help nearly any worker easily get a grip on any job. The product line includes tongue and groove, slip-joint, and locking pliers in all sizes, as well a number of specialty items like retaining ring pliers, heavy duty C-clamps, or snips for cutting sheet metal and wire.

These tools are made with the same commitment to quality that we lavish on all Stanley[®] Proto[®] tools. All of our pliers are forged from high quality alloy steel and heat treated to make them stronger and more durable.

Of course, our users take our quality tool construction for granted. Some of the features that set our tools apart from the rest are how good they feel in the user's hands, how easy they are to work with, and how effectively they do the job they're designed for. Take, for instance, the patented convertible design on our retaining ring pliers that lets users quickly switch between internal or external rings without fatigue. Or our Power-Track[®] II Tongue and Groove pliers, whose angled teeth can grip a pipe or fastener more securely than the standard right-angle teeth (used on many other pliers) and whose precision-milled interlocking joint lets users apply more pressure to the work.

We have also been hard at work developing tools with innovative new features. A great example is our line of miniature Electrostatic Discharge (ESD) pliers. Designed to make life easier for people who use small pliers all day, this line of pliers includes a unique, dual-leaf spring design that automatically opens the jaws when the user relaxes his grip, making it ready for the next operation.

Another innovation is the Facom[®] 1000-Volt Insulated Tool lineup, which includes a variety of pliers, snips, and wire cutters. These tools are easily recognizable by their thick layer of orange plastic insulation, along with pronounced handle guards that help keep hands away from the non-insulated parts of the tool. These tools are designed to protect the user against shock when working on live circuits of up to 1000 V AC and 1500 V DC. Each are individually tested and checked to ensure that they deliver the safety that they promise.

Most Proto[®] pliers have slip-resistant, cushioned handles that reduce the chance of accidents, and make the tool more comfortable to use. It's just one of the many small features designed to keep users safe and productive, features they can safely take for granted.

PRODUCT FEATURES AND BENEFITS

POWER-TRACK® II TONGUE AND GROOVE PLIERS

- Proto® offers a wide range of tongue and groove pliers with sizes ranging from 4-5/8" - 16-7/8", and maximum openings ranging from 15/32" - 4-1/16".
- Precision milled undercut groove joint provides smooth interlocking action and powerful non-slip performance.
- The groove joint absorbs the full gripping force. The more force exerted on the handle, the better the groove interlocks.
- Applied force is transmitted to the interlocking grooves, not the holding screw.
- Undercut grooves are centered to prevent jaw misalignment at applied load. Jaws will not twist.
- Multi-groove design allows parallel jaw openings in multiple positions.
- Angled teeth provide superior gripping power over standard right angle teeth.
- Teeth in jaws provide a tight, firm grip even on pipe or rounded fasteners and fittings.
- Forged and heat treated from high strength alloy steel provides stronger jaws, and sharp durable teeth.
- Thin tapered jaws provide access for use in tight areas.
- Jaws are set at 45 degrees from handle line for better access in tight areas and a comfortable, natural twist angle.
- Special fasteners ensure permanent assembly, yet allow easy adjustment of the joint.
- Plastisol grips for added comfort.

RETAINING RING PLIERS

- Proto® Retaining Ring Pliers are designed to provide ease and reliability in installing/removing retaining rings without lost motion or damage to the rings. Internal pliers are designed for installing rings in a "bore" and external pliers are for installing rings on a shaft.
- Patented convertible design permits quick change-over to work internal or external rings.
- Long "curved" handle design is engineered to reduce fatigue.
- Precision formed, induction hardened tips for accurate fit and long wear.
- Tips engage rings securely and hold proper alignment to prevent rings from flying loose.
- Each plier will accommodate several ring sizes within a given range. Refer to the pliers selection chart.
- Plastisol coated handles, many with air cushioned grips, for added comfort.
- Grips are clearly marked for easy identification.

FACOM® 1000-VOLT INSULATED TOOLS

- Tools conform to international standards: IEC 60 900.
- Thick layer of plastic insulation protects users against voltages up to 1000V AC and 1500V DC.
- Ergonomic design: Handle shapes help minimize palm pressure points.
- Generous guards keep hands clear of metal parts.
- VE Series tools designed for electrical maintenance and craftsmen.
- VSE Series tools designed for electrical production and power plants.
- VSE Series tools have two layers of insulation, an orange top layer and a yellow layer. Damage or wear to the top layer will expose the underlying layer, signaling time to replace the tool.



STANLEY

PROTO®



C-CLAMPS

- C-Clamps are holding tools that free the user's hands or provide pressure while cutting, drilling, or fastening multiple pieces. Proto® C-Clamps are engineered for the toughest clamping jobs and are designed to hold securely up to their rated capacities.

EYE BOLTS

- Size, traceability marking, cavity number, forging code, and heat-treat code are included on every forged eyebolt.
- Forged from special bar quality fine grain domestic carbon steel.
- Heat-treated for strength and desired properties.

PROTO® C-CLAMP FEATURES

- Frames hot forged from special alloy steel and heat-treated for outstanding strength and toughness.
- Large machined anvil on frame to insure a flat contact area for gripping big pieces, yet permit precision clamping on small or irregular pieces.
- Each C-Clamp features a black industrial finish.
- Through hardened screws to assure long life and great strength under loads, resisting warping or breakage.
- To ensure you have the right C-Clamp for the job, Proto offers a selection of Heavy Services, Standard Services Deep Throat, and Standard Services Extra Deep Throat C-Clamps to meet your industrial clamping needs.

SAFETY TIPS

Pliers

- Use safety goggles. Serious eye injury is possible.
- Do not use pliers with cushion grips on electrical circuits. There is no insulation.
- Do not use extenders or cheater bars on plier handles.
- Shield yourself and bystanders when using retaining ring pliers. Flying objects are possible.
- Cut wire at the base of the jaw near the hinge, not at the tip.
- Prevent exposure to excessive heat.

C-Clamps

- Use safety goggles. Serious eye injury is possible.
- Do not use a damaged c-clamp. Replace bent screws and missing pressure pads.
- Do not use c-clamp to pull or lift.
- Disconnect electricity when working on electrical parts.

C-Clamps (Continued)

- Apply clamping force perpendicular.
- Engage pressure pad and anvil fully.
- Prevent slipping by keeping tools clean.
- Maintain your balance.

Insulated Tools

- Use insulated electrician's gloves, mats, and eye protection.
- Check that the insulation is sound before using the tool.
- Never use a tool with cracked, cut or damaged insulation.
- Discard tools with damaged or worn insulation.
- Never attempt to modify the tool's insulation.
- Do not let others use your insulated tools.
- Always use the correct tool for the job.
- Check standards and approval markings.
- Read safety recommendations and keep the instructions.

Pliers, Snips, Clamps & Eye Bolts

TONGUE AND GROOVE POWER-TRACK® II

- Precision milled undercut groove joint provides interlocking feature for powerful non-slip performance.
- Special fastener ensures permanent assembly, yet allows for easy adjustment.
- Angled teeth provide superior gripping power over standard right angled teeth.
- Plastisol grips for added comfort.
- Natural finish.



Product ID No.	L	MAX.	A	B	C	Weight lbs.	ASME Spec.
J262SG	7-1/16"	1-1/8"	1-3/8"	1-3/4"	5/16"	.48	B107.23
J263SG	9-9/16"	1-1/2"	1-5/8"	2-1/16"	5/16"	.88	B107.23
J260SG	10-3/16"	2-1/8"	1-15/16"	2-3/4"	13/32"	1.00	B107.23
J264SG	12"	2-5/8"	2-1/4"	2-3/4"	3/8"	1.81	B107.23
J265SG	16-7/8"	4-1/16"	3-3/8"	4-1/8"	17/32"	3.50	B107.23

TONGUE AND GROOVE POWER-TRACK® II

- Precision milled undercut groove joint provides interlocking feature for powerful non-slip performance.
- Special fastener ensures permanent assembly, yet allows for easy adjustment.
- Angled teeth provide superior gripping power over standard right angled teeth.
- Plastisol grips for added comfort.
- Natural finish.
- Forged undercut.



Product ID No.	L	MAX.	A	B	C	Weight lbs.	ASME Spec.
J261SG	4-5/8"	15/32"	7/8"	13/16"	3/16"	.15	B107.23



Pliers, Snips, Clamps & Eye Bolts



COMBINATION SLIP-JOINT PLIERS

- Has two jaw positions and shear type wire cutter.

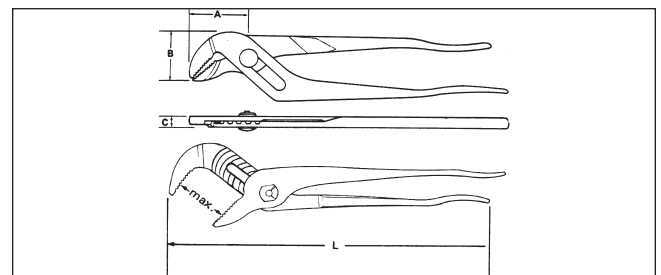
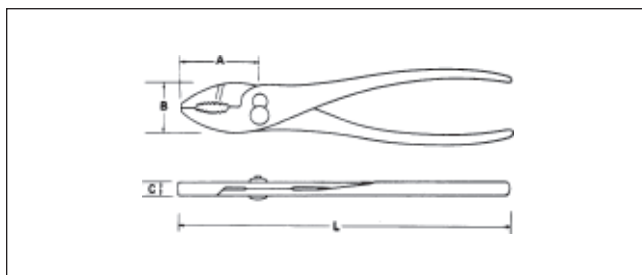
Product ID No.	L	A	B	C	Weight lbs.	ASME Spec.
J275	5-3/4"	1-5/16"	7/8"	9/32"	.24	B107.23
J276	6-1/2"	1-3/4"	1-3/16"	3/8"	.52	B107.23
J278	8"	1-3/4"	1-13/64"	3/8"	.67	B107.23
J280	9-1/2"	2-3/8"	1-7/64"	15/32"	1.00	B107.23



COMBINATION SLIP-JOINT PLIERS

- Has two jaw positions and shear type wire cutter.
- Plastisol grips for added comfort.

Product ID No.	L	A	B	C	Weight lbs.	ASME Spec.
J275G	5-13/16"	1-5/16"	7/8"	9/32"	.24	B107.23
J276G	6-9/16"	1-3/4"	1-3/16"	3/8"	.52	B107.23
J278G	8-1/16"	1-3/4"	1-13/64"	3/8"	.67	B107.23
J280G	9-9/16"	2-3/8"	1-7/16"	15/32"	1.00	B107.23



Pliers, Snips, Clamps & Eye Bolts



NEEDLE NOSE PLIERS - LONG REACH

- Extra long handle allows greater access to confined, restricted areas.
- Improved fulcrum point provides more holding power at the tip with less gripping effort.
- Plastisol grips for added comfort



Product ID No.	L	A	B	C	Weight lbs.
J240G	11-9/16"	2-13/16"	23/32"	13/32"	.63

NEEDLE NOSE PLIERS - LONG EXTRA THIN

- Extra slim-nose pliers for light precision work.
- Designed for gripping, looping, and twisting wire in confined areas.
- Plastisol grips for added comfort



Product ID No.	L	A	B	C	Weight lbs.	ASME Spec.
J223G	6-5/32"	2-5/32"	1/2"	9/32"	0.20 lbs.	B107.20

NEEDLE NOSE PLIERS

- Diamond serrated jaws.
- Plastisol grips for added comfort.



Product ID No.	L	A	B	C	Weight lbs.	ASME Spec.
J282G	4-7/8"	1-3/16"	7/16"	1/4"	0.16 lbs.	B107.20M
J229-03G	5-9/16"	1-11/16"	1/2"	9/32"	0.23 lbs.	B107.20M
J220G	6-5/8"	1-7/8"	11/16"	3/8"	0.35 lbs.	B107.20M



Pliers, Snips, Clamps & Eye Bolts



NEEDLE NOSE PLIERS

- Coil spring.
- Diamond serrated jaws.
- Platisol grips for added comfort.

Product ID No.	L	A	B	C	Weight lbs.	ASME Spec.
J282BSG	5"	1-3/16"	7/16"	1/4"	0.16 lbs.	B107.20M



NEEDLE NOSE PLIERS WITH SIDE CUTTER

- Induction hardened cutting edges.
- Diamond serrated jaws.
- Platisol grips for added comfort.

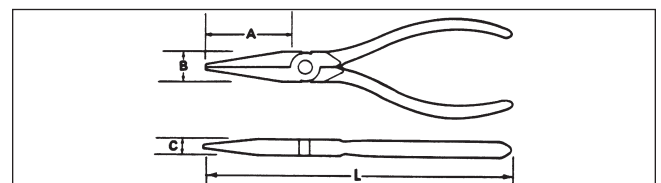
Product ID No.	L	A	B	C	Weight lbs.	ASME Spec.
J226G	6-5/8"	1-7/8"	11/16"	3/8"	.34	B107.13



NEEDLE NOSE PLIERS WITH SIDE CUTTER

- Induction hardened cutting edges.
- Diamond serrated jaws.
- Coil spring.
- Platisol grips for added comfort.

Product ID No.	L	A	B	C	Weight lbs.	ASME Spec.
J229-01G	5-9/16"	1-11/16"	1/2"	9/32"	0.23 lbs.	B107.13
J226-01G	7-1/2"	2-5/8"	3/4"	3/8"	0.40 lbs.	B107.13



Pliers, Snips, Clamps & Eye Bolts



NEEDLE NOSE PLIERS - LONG REACH - BENT NOSE

- Extra long handle allows greater access to confined, restricted areas.
- Improved fulcrum point provides more holding power at the tip with less gripping effort.
- Bent nose design to reach around obstructions.
- Plastisol grips for added comfort.



Product ID No.	L	A	B	C	Weight lbs.
J241G	11-3/8"	2-9/16"	23/32"	13/32"	0.62 lbs.

NEEDLE NOSE PLIERS - LONG THIN

- Very thin nose allows access into minimum clearance areas.
- Diamond serrated jaws.
- Plastisol grips for added comfort.



Product ID No.	L	A	B	C	Weight lbs.	ASME Spec.
J222G	6-1/16"	2-1/8"	11/16"	11/32"	.28	B107.13

NEEDLE NOSE PLIERS - BENT NOSE

- Nose bent to 78° angle to reach around obstructions.
- Very thin nose allows access into minimum clearance areas.
- Diamond serrated jaws.
- Plastisol grips for added comfort.



Product ID No.	L	A	B	C	Weight lbs.	ASME Spec.
J225G	6-5/16"	1-5/8"	3/4"	3/8"	.42	B107.13



Pliers, Snips, Clamps & Eye Bolts



NEEDLE NOSE PLIERS - LONG

- Long handle for added leverage.
- Diamond serrated jaws.
- Plastisol grips for added comfort.

Product ID No.	L	A	B	C	Weight lbs.	ASME Spec.
J228G	7-25/32"	1-9/16"	17/32"	7/16"	.38	B107.13



DUCKBILL PLIERS

- Wide, flat nose for better grip than standard needle nose pliers.
- Diamond serrated jaws.
- Long handle for added leverage.
- Plastisol grips for added comfort.

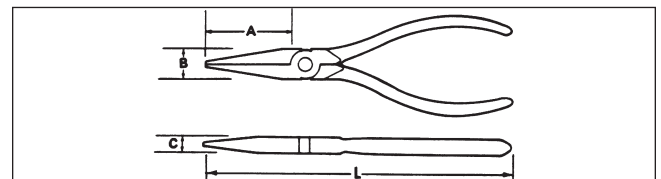
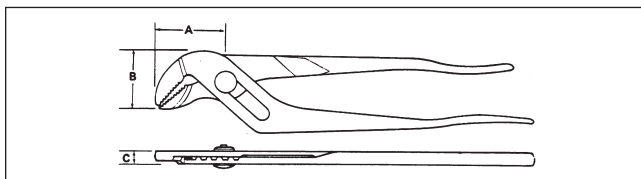
Product ID No.	L	A	B	C	Weight lbs.	ASME Spec.
J227G	7-25/32"	1-9/16"	17/32"	7/16"	.38	B107.13



MIDGET ANGLE NOSE PLIERS

- Nose angled for easy access.
- Angled teeth provide superior gripping power over standard right angled teeth.
- Plastisol grips for added comfort

Product ID No.	L	A	B	C	Weight lbs.
J235	4-1/16"	3/4"	5/8"	11/64"	.10



Pliers, Snips, Clamps & Eye Bolts



THIN NOSE PLIERS

- Easy access to tight areas.
- Has two jaw positions and shear type wire cutter.
- Plastisol grips for added comfort.



Product ID No.	L	A	B	C	Weight lbs.	ASME Spec.
J202G	6-11/16"	1-15/16"	1-1/16"	3/16"	.47	B107.23

DIAGONAL CUTTING PLIERS

- Induction hardened cutting edges.
- Thin narrow jaws for access in tight areas.
- Plastisol grips for added comfort.



Product ID No.	L	A	B	C	Weight lbs.	ASME Spec.
J285G	4-5/8"	13/32"	7/16"	1/4"	.13	B107.11
J204G	4-7/16"	18/32"	9/16"	5/16"	.22	B107.11
J205G	5-1/16"	3/4"	19/32"	3/8"	.24	B107.11
J206G	6-1/16"	13/16"	3/4"	7/16"	.40	B107.11
J207G	7-5/16"	1"	7/8"	15/32"	.50	B107.11

DIAGONAL CUTTING PLIERS

- Coil Springs
- Induction hardened cutting edges.
- Thin narrow jaws for access in tight areas.
- Plastisol grips for added comfort



Product ID No.	L	A	B	C	Weight lbs.	ASME Spec.
J285BSG	4-5/8"	13/32"	7/16"	1/4"	.13	B107.11
J204SG	4-7/16"	18/32"	9/16"	5/16"	.22	B107.11



Pliers, Snips, Clamps & Eye Bolts



DIAGONAL CUTTING PLIERS - ANGLED HEAD

- Angled head for work in confined areas.
- Plastisol grips for added comfort.
- Flush cutting.

Product ID No.	L	A	B	C	Weight lbs.
J210AHG	8-1/8"	3/4"	1-7/32"	5/32"	.64



DIAGONAL CUTTING PLIERS - HEAVY-DUTY

- Induction hardened cutting edge.
- Powerful leverage cuts heavy wire with ease.
- Plastisol grips for added comfort.

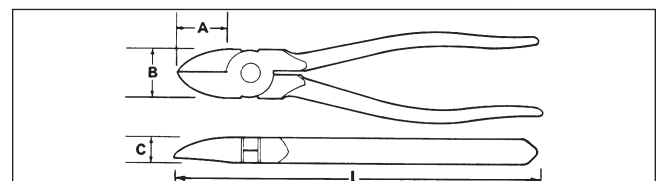
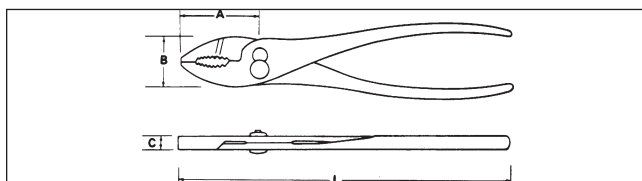
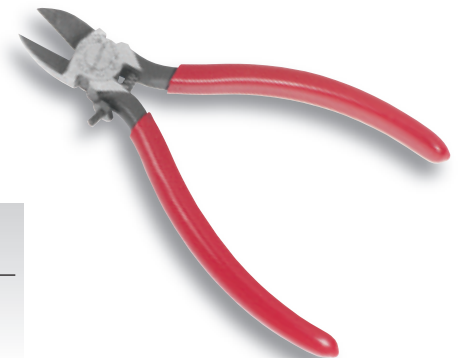
Product ID No.	L	A	B	C	Weight lbs.	ASME Spec.
J209G	7-5/16"	2-5/32"	7/8"	1/2"	.58	B107.11
J210G	8-1/2"	3/4"	1-7/32"	15/32"	.64	B107.11



DIAGONAL PLASTIC CUTTING PLIERS

- Adjusting set screw allows fast, precise cutting and prevents cutting edges from damaging each other.
- Coil spring for reduced hand fatigue.
- Induction hardened cutting edges.
- Plastisol grips for added comfort

Product ID No.	L	A	B	C	Weight lbs.
J212G	6-1/16"	3/4"	3/4"	7/16"	.39
J213G	7-5/16"	1"	29/32"	1/2"	.53



Pliers, Snips, Clamps & Eye Bolts

DIAGONAL CUTTING PLIERS LONG REACH - HIGH LEVERAGE - ANGLED HEAD

- Extra long handle provides high leverage cutting capabilities with less user effort.
- 30° angled head for hard to reach areas.
- Wide handle contour for less fatigue.
- Plastisol grips for added comfort.



Product ID No.	L	A	B	C	Weight lbs.
J244G	11-1/8"	1"	63/64"	1-5/32"	.94

DIAGONAL CUTTING PLIERS LONG REACH - GRIPPING TIP

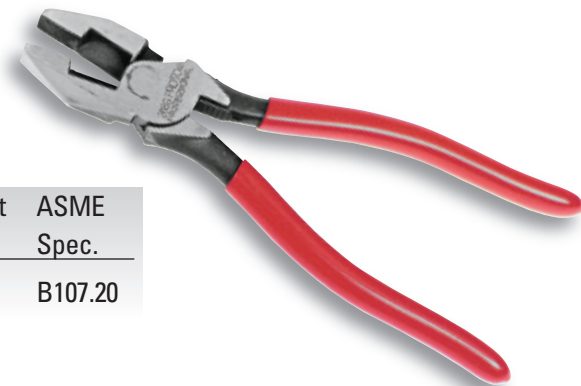
- Cutting and gripping capabilities in one tool
- Serrated gripping surface at tips
- Plastisol grips for added comfort.



Product ID No.	L	A	B	C	Weight lbs.
J246G	11-1/8"	27/32"	63/64"	25/64"	.74

LINEMAN'S PLIERS

- For utility linemen, wiring and electrical equipment installation, and maintenance.
- Induction hardened cutting edges and diamond serrated jaws.
- Built-in insulation crusher
- Plastisol grips for added comfort.



Product ID No.	L	A	B	C	Weight lbs.	ASME Spec.
J268G	8-5/8"	1-1/2"	1-3/16"	5/8"	.98	B107.20



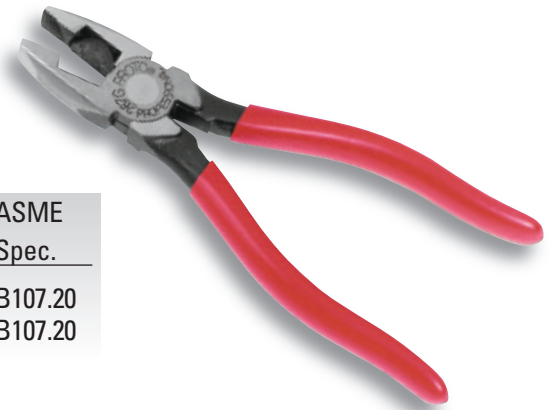
Pliers, Snips, Clamps & Eye Bolts



LINEMAN'S PLIERS - NEW ENGLAND STYLE

- Slim rounded nose for easy access in restricted spaces.
- Diamond serrated jaws.
- Plastisol grips for added comfort.

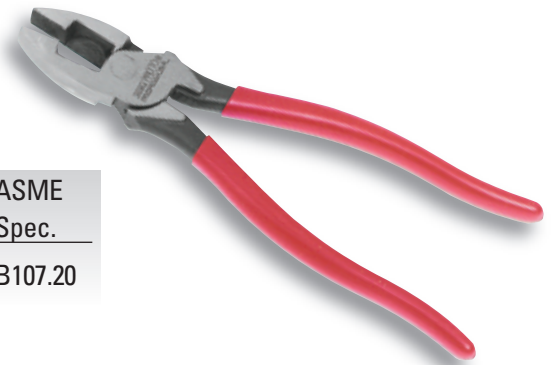
Product ID No.	L	A	B	C	Weight lbs.	ASME Spec.
J266G	6-3/16"	1-3/32"	29/32"	1/2"	0.50 lbs.	B107.20
J267G	7-1/4"	1-9/32"	1-1/8"	1/2"	0.67 lbs.	B107.20



LINEMAN'S PLIERS - HIGH LEVERAGE

- Jaws have offset rivet for increased leverage.
- Designed for cutting No. 8 and other large wires.
- Diamond serrated jaws.
- Plastisol grips for added comfort.

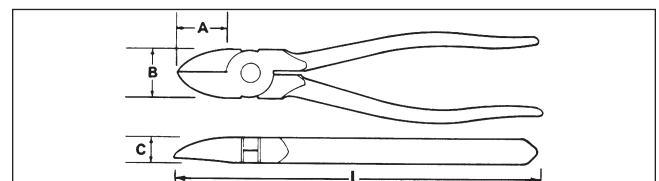
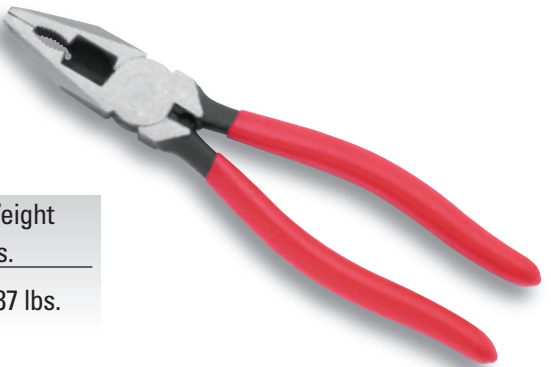
Product ID No.	L	A	B	C	Weight lbs.	ASME Spec.
J269G	9-1/4"	1-3/16"	1-3/32"	5/8"	1.10 lbs.	B107.20



LINEMAN'S PLIERS - PIPE JAW

- Serrated flat nose jaws with toothed pipe grip.
- Plastisol grips for added comfort.

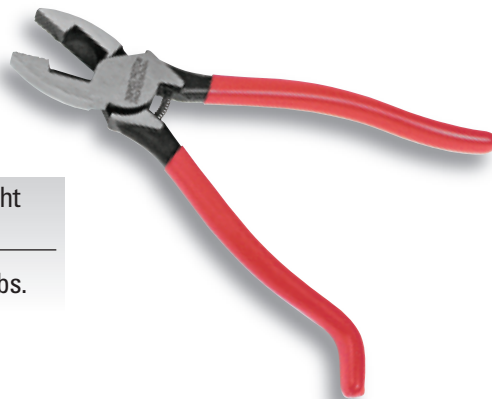
Product ID No.	L	A	B	C	Weight lbs.
J268PJG	8-3/8"	1-3/4"	1-1/16"	17/32"	0.87 lbs.



Pliers, Snips, Clamps & Eye Bolts

IRONWORKERS PLIERS

- Designed to tie and cut wire associated with reinforcing bar.
- Hook bend in handle to reduce slippage when gripping and pulling.
- Coil spring holds jaws open, yet close easily.
- Plastisol grips for added comfort.



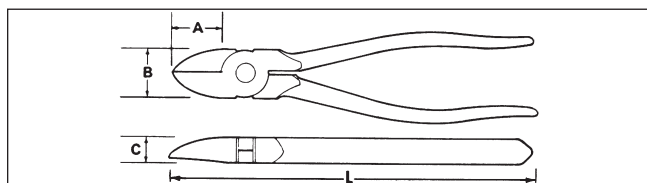
Product ID No.	L	A	B	C	Weight lbs.
J269WSG	9-1/4"	1-9/16"	1-9/32"	5/8"	1.16 lbs.

END CUTTING PLIERS - HIGH LEVERAGE

- Semi-flush cutting in areas inaccessible to side cutting pliers.
- High leverage for easy cutting of most wires and nails.
- Plastisol grips for added comfort.



Product ID No.	L	A	B	C	Weight lbs.	ASME Spec.
J272G	8-1/4"	5/16"	1-3/4"	1-3/16"	.90	B107.20



Pliers, Snips, Clamps & Eye Bolts



SET NO. J2806SMP - 6 PC. MINIATURE PLIERS IN ZIPPER CASE

- For use in limited access or confined areas.
- Pliers are hot-drop forged with a high polish finish for strength and cleaning ease.
- Hardened and tempered jaws for strength and durability.
- Dual leaf spring design helps increase durability while allowing the jaws to be maintained in the open position for quick use.
- Slip-resistant Electro-Static Discharge (ESD) cushioned grips provide comfort and ease of use.
- Full flush and semi-flush cutting edges are honed and electronically induction hardened for long life wire cutting.
- Cushion grip handles on electrical service pliers meet or exceed the electrostatic discharge (ESD) static decay specifications for MIL-PRF-81705D and ESD S.541 (formerly EIA-541).
- Weight: 1.11 lbs



Product ID No.	Contents	Description	Length	ASME Spec.
J2806SMP	J2813SCMP	Diagonal Cutter, Semi-Flush, Tapered Head	4-1/4"	B107.25M and B107.38M
	J2817FCMP	Diagonal Cutter, Flush Oval Head	4-1/4"	B107.25M and B107.38M
	J2864LNNMP	Slim Needle Nose, Non-Serrated Jaw	5-3/4"	B107.25M and B107.38M
	J2820NNMP	Needle Nose, Serrated Jaw	4-3/4"	B107.25M and B107.38M
	J2834FCMP	Transverse End Cutter, Flush	4-1/2"	B107.25M and B107.38M
	J2838FCMP	Angled Cutter, Flush	4-1/2"	B107.25M and B107.38M

- For use in limited access or confined areas.
- Pliers are hot-drop forged with a high polish finish for strength and cleaning ease.
- Hardened and tempered jaws for strength and durability.
- Dual leaf spring design helps increase durability while allowing the jaws to be maintained in the open position for quick use.
- Slip-resistant Electro-Static Discharge (ESD) cushioned grips provide comfort and ease of use.
- Full flush and semi-flush cutting edges are honed and electronically induction hardened for long life wire cutting.
- Cushion grip handles on electrical service pliers meet or exceed the electrostatic discharge (ESD) static decay specifications for MIL-PRF -81705D and ESD S.541 (formerly EIA -541).
- Weight: 0.67 lbs



Product ID No.	Contents	Description	Length	ASME Spec.
J2804SMP	J2813SCMP	Diagonal Cutter, Semi-Flush, Tapered Head	4-1/4"	B107.25M and B107.38M
	J2817FCMP	Diagonal Cutter, Flush Oval Head	4-1/4"	B107.25M and B107.38M
	J2852CNMP	Curved Long Nose, Serrated Jaw	4-1/2"	B107.25M and B107.38M
	J2866LNCMP	Long Nose with Cutter	4-3/4"	B107.25M and B107.38M



Pliers, Snips, Clamps & Eye Bolts

MINI PLIERS

- For use in limited access or confined areas.
- Pliers are hot-drop forged with a high polish finish for strength and cleaning ease.
- Hardened and tempered jaws for strength and durability.
- Dual leaf spring design helps increase durability while allowing the jaws to be maintained in the open position for quick use.
- Slip-resistant Electro-Static Discharge (ESD) cushioned grips provide comfort and ease of use.
- Full flush and semi-flush cutting edges are honed and electronically induction hardened for long life wire cutting.
- Cushion grip handles on electrical service pliers meet or exceed the electrostatic discharge (ESD) static decay specifications for MIL-PRF-81705D and ESD S.541 (formerly EIA-541).



MINI DIAGONAL CUTTER, TAPERED HEAD, FLUSH

Product ID No.	L	A	B	C	Weight lbs.	Wire Cutting Capacity	ASME Spec.
J2812FCMP	4-1/4"	7/16"	7/16"	1-3/16"	0.11	20 AWG	B107.25M and B107.38M



MINI DIAGONAL CUTTER, TAPERED HEAD, SEMI-FLUSH

Product ID No.	L	A	B	C	Weight lbs.	Wire Cutting Capacity	ASME Spec.
J2813SCMP	4-1/4"	1/2"	7/16"	1-3/16"	0.11	20 AWG	B107.25M and B107.38M



MINI DIAGONAL CUTTER, RELIEVED HEAD, SEMI-FLUSH

Product ID No.	L	A	B	C	Weight lbs.	Wire Cutting Capacity	ASME Spec.
J2814SCMP	4-1/4"	7/16"	7/16"	1-3/16"	0.11	20 AWG	B107.25M and B107.38M



MINI DIAGONAL CUTTER, OVAL HEAD, SEMI-FLUSH

Product ID No.	L	A	B	C	Weight lbs.	Wire Cutting Capacity	ASME Spec.
J2816SCMP	4-1/4"	7/16"	3/32"	1-3/16"	0.13 lbs.	20 AWG	B107.25M and B107.38M



Pliers, Snips, Clamps & Eye Bolts



MINI DIAGONAL CUTTER, OVAL HEAD, FLUSH

Product ID No.	L	A	B	C	Weight lbs.	Wire Cutting Capacity	ASME Spec.
J2817FCMP	4-1/4"	9/16"	7/16"	2-3/16"	0.12	20 AWG	B107.25M and B107.38M



MINI NEEDLE NOSE, NON-SERRATED JAW

Product ID No.	L	A	B	C	Weight lbs.	ASME Spec.
J2822NNMP	4-3/4"	1-1/8"	7/16"	2-1/8"	0.15 lbs.	B107.25M and B107.38M



MINI TRAVERSE END CUTTER, FLUSH

Product ID No.	L	A	B	C	Weight lbs.	Wire Cutting Capacity	ASME Spec.
J2834FCMP	4-1/2"	15/16"	7/16"	1-7/8"	0.13	20 AWG	B107.25M and B107.38M



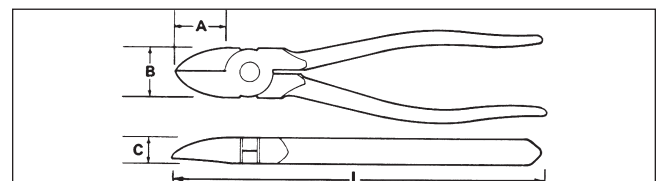
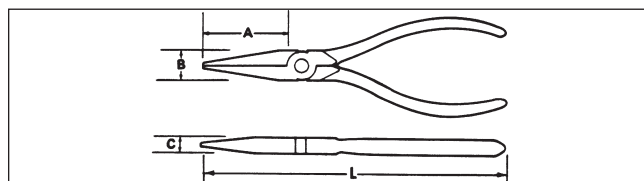
MINI ANGLED CUTTER, FLUSH

Product ID No.	L	A	B	C	Weight lbs.	Wire Cutting Capacity	ASME Spec.
J2838FCMP	4-1/2"	3/8"	7/16"	1"	0.12	20 AWG	B107.25M and B107.38M



MINI CURVED NOSE, SERRATED JAW

Product ID No.	L	A	B	C	Weight lbs.	ASME Spec.
J2852CNMP	4-1/2"	1-1/8"	7/16"	1-1/2"	0.12	B107.25M and B107.38M



Pliers, Snips, Clamps & Eye Bolts



MINI DUCKBILL PLIERS, NON-SERRATED JAW

Product ID No.	L	A	B	C	Weight lbs.	ASME Spec.
J2858DBMP	4-3/4"	1-1/8"	7/16"	2-1/8"	0.12	B107.25M and B107.38M



MINI LONG SLIM NEEDLE NOSE, SERRATED JAW

Product ID No.	L	A	B	C	Weight lbs.	ASME Spec.
J2863LNNMP	5-3/4"	2-1/8"	7/16"	3-3/8"	0.12	B107.25M and B107.38M



MINI LONG NOSE/CHAIN NOSE WITH CUTTER

Product ID No.	L	A	B	C	Weight lbs.	ASME Spec.
J2866LNCMP	4-3/4"	1-1/16"	7/16"	2-1/8"	0.11	B107.25M and B107.38M



MINI LONG NOSE/CHAIN NOSE, SERRATED JAW

Product ID No.	L	A	B	C	Weight lbs.	ASME Spec.
J2868LNMP	4-3/4"	1-1/8"	7/16"	2-1/8"	0.11	B107.25M and B107.38M



SOFT JAW - CANNON PLUG PLIERS

- Capacity of 3/4" to 2-1/2".
- Four position pivot design provides greater concentricity.
- Replaceable urethane padded jaws protect work piece from marking or scratching
- Plastisol grips for added comfort.

Product ID No.	Length	Weight lbs.	Replaceable Jaw-Pair
J253G	6-1/2"	.54	253GRK



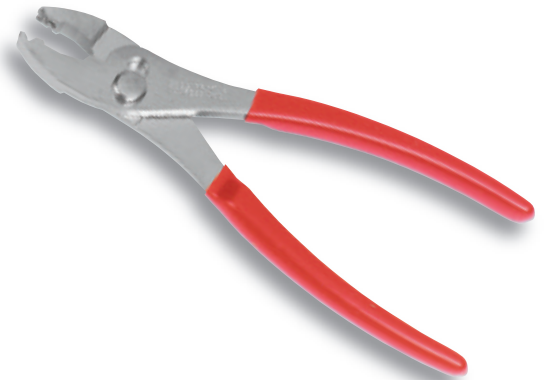
Pliers, Snips, Clamps & Eye Bolts



HOSE CLAMP PLIERS

- Installs and removes wire spring tension clamps.
- Two position jaws grip full range of clamp sizes.
- Plastisol grips for added comfort.

Product ID No.	Length	Weight lbs.
J252G	7-3/4"	.56



LOCK RING - "HORSESHOE" WASHER PLIERS

- For spreading both soft iron "horseshoe" lock washers used on brakes and tempered steel lock rings used on gear and bearing shafts.
- Plastisol grips for added comfort.

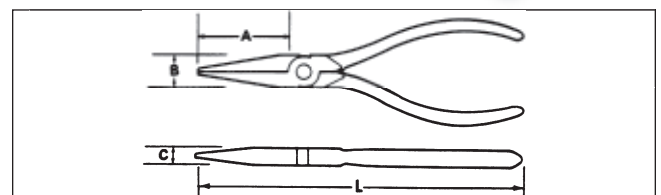
Product ID No.	Length	Weight lbs.
J250G	7-13/16"	.49



LOCK RING PLIERS - PARALLEL JAW

- For removal of lock snap rings used on bearing shafts.
- Compound leverage simplifies removal.
- Jaw tips are indented to hold ring ends and prevent breakage.
- Jaws spread 1-1/4".
- Plastisol grips for added comfort.

Product ID No.	Length	Weight lbs.
J251G	10-9/16"	.68



Pliers, Snips, Clamps & Eye Bolts

SET NO. J299R 3 PC. LOCKING PLIERS SET

- Weight: 2.51 lbs.

Product			
ID No.	Contents	Description	Length
J299R	J291R	Straight Jaw	7"
	J292R	Curved Jaw	10"
	J286LN	Long Nose	6"
	J25TR22C	Tool Pouch	-



LOCKING PLIERS WITH WIRE CUTTERS CURVED JAW

- Can be used as hand vise, pipe wrench, clamp and pliers.
- Jaws lock in holding position with applied pressure up to one ton.
- Quick release removes pressure instantly.
- Curved jaw applies pressure on all points of any style nut or bolt.

Product ID No.	Length	Jaw Thickness	Jaw Adjustment	Weight lbs.	ASME Spec.
J293WR	5"	1/4"	Up to 1-1/4"	.35	B107.24
J294WR	7"	5/16"	Up to 1-5/8"	.72	B107.24
J292WR	10"	7/16"	Up to 1-7/8"	1.24	B107.24



LOCKING PLIERS - CURVED JAW

- Curved jaw applies pressure on all points of any style nut or bolt.

Product ID No.	Length	Jaw Thickness	Jaw Adjustment	Weight lbs.	ASME Spec.
J290R	7"	5/16"	Up to 1-5/8"	.73	B107.24
J292R	10"	7/16"	Up to 1-7/8"	1.34	B107.24



Pliers, Snips, Clamps & Eye Bolts



LOCKING PLIERS - LONG NOSE

- Long nose design for access in tight areas.
- Heat treated alloy steel for maximum toughness and durability.
- Adjusting screw provides precise pressure.
- Guarded release trigger provides safety (against accidental opening) as well as quick release.

Product ID No.	Jaw Length	Jaw Thickness	Jaw Adjustment	Weight lbs.
J286LN	6"	5/32" at tip'5/16" at base	2-1/4" at tip'1-5/16" at base	.38
J289LN	9"	3/16" at tip'13/32" at base	2-7/8" at tip'15/16" at base	.78



LOCKING PLIERS - STRAIGHT JAW

- Straight jaws allow for maximum contact on flat, square or hex work.
- Heat treated alloy steel for maximum toughness and durability.
- Adjusting screw provides precise pressure.
- Guarded release trigger provides safety (against accidental opening) as well as quick release.

Product ID No.	Length	Jaw Thickness	Jaw Adjustment	Weight lbs.	ASME Spec.
J291R	7"	1/2"	1-1/8"	.79	B107.24
J293R	10"	5/8"	1-5/8"	1.17	B107.24



LOCKING PLIERS - C-CLAMP

- Wide opening jaws provide greater versatility in clamping a wide variety of shapes.
- Heat treated alloy steel for maximum toughness and durability.
- Adjusting screw provides precise pressure.
- Guarded release trigger provides safety (against accidental opening) as well as quick release.

Product ID No.	Length	Jaw Thickness	Jaw Adjustment	Weight lbs.
J265R	6"	1/2"	0-2-1/8"	.47
J266R	11"	2-5/8"	0-4"	1.75

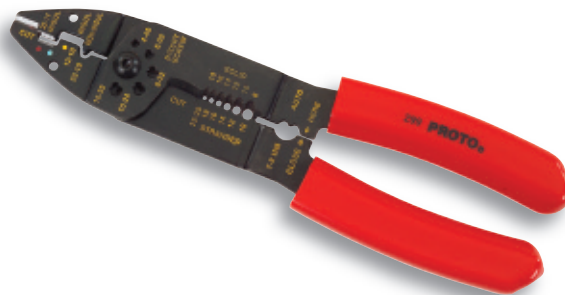


Pliers, Snips, Clamps & Eye Bolts

WIRE STRIPPER/CRIMPER

- Strips 10-22 AWG - American Wire Gauge.
- Box style crimp.
- Crimps insulated and non-insulated terminals for 10-22 AWG.
- Crimps non-insulated 7mm and 8mm auto ignition wire.
- Cuts screw/bolt sizes 4-40, 5-40, 6-32, 8-32, 10-32, 10-24.
- Anvil type wire cutter for cutting copper wire.
- Air-pocket cushion grips for comfort.

Product ID No.	Length	Weight lbs.
J299	8-1/2"	.45



WIRE STRIPPER / CUTTER

- Strips wire sizes 10, 12, 14, 16, 18 and 20 AWG - American Wire Gauge.
- Wire cutter for copper wire.
- Plier nose for pulling and looping wire.
- Spring return and convenient handle lock.
- Plastisol grips for added comfort.

Product ID No.	Length	Weight lbs.
J297	6-1/16"	.21 lbs.



WIRE STRIPPER

- Strips wire sizes 22, 24, 26, 28, and 30 AWG - American Wire Gauge.
- Wire cutter.
- Plier nose for pulling and looping wire.
- Automatic spring return.

Product ID No.	Length	Weight lbs.
J296	6-1/16"	.21



Pliers, Snips, Clamps & Eye Bolts



CABLE CUTTER

- Cuts up to 3/0 fine stranded copper battery cable (not for use on steel cable).
- Precision ground blades minimize deflection.
- Positive fastener maintains pressure on matching cutting surfaces.
- Platisol grips for added comfort.

Product ID No.	Length	Weight lbs.
J288	7-1/2"	0.56 lbs.



SET NO. J194 - 3 PC. SAFETY WIRE TWISTER PLIERS SET

- Contains three different twisters to cover almost any application.
- Includes 6" and 9" wire twister pliers and deep reach pliers.
- Packed in handy, durable plastic storage case.
- Weight: 3.32 lbs.

Product ID No.	Contents	Description	Length
J194	J190	Wire Twister Pliers - 6"	8-3/8"
	J191	Wire Twister Pliers - 9"	10-3/8"
	J193	Deep Reach Wire Twister Pliers	18-1/8"



Pliers, Snips, Clamps & Eye Bolts



SAFETY WIRE TWISTER PLIERS

- Safety wire is often used in aviation and other applications where vibration may cause fasteners to back out.
- Heat treated cutting edges for cutting tough stainless steel safety wire.
- Flat top diamond serrations on jaws hold wire securely and resist nicking.
- Diagonal nose allows access in tight work areas.
- Automatic spring return feature speeds operation and reduces fatigue.
- J190 designed for wire sizes .020" - .041".
- J191, J192, J195 designed for wire sizes .020" - .060".
- J192 Ergonomically designed.
- J195 Left hand twist.



Product		Weight		
ID No.	Description	Length	lbs.	ASME Spec.
J190	Wire Twister Pliers - 6"	8-3/8"	.59	B107.18
J191	Wire Twister Pliers - 9"	10-3/8"	.85	B107.18
J192	Automatic Wire Twister Pliers - 9"	10-3/8"	.85	B107.18
J195	Left Hand Twist Automatic Wire Twister Pliers - 9"	10-3/8"	.85	B107.18

SAFETY WIRE TWISTER PLIERS - REVERSIBLE

- Reversible safety wire pliers provide right and left twist capability often eliminating the need for a second plier.
- Meet SAE Aerospace Standard AS 567 Twister Requirements.
- Provide all of the features of Standard Proto Safety Wire Pliers.
- J196 designed for wire sizes .020" - .041".
- J197 designed for wire sizes .020" - .060".



Product		Weight
ID No.	Length	lbs.
J196	8-3/4"	0.64
J197	11"	.88

SAFETY WIRE TWISTER - DEEP REACH

- Designed for access into close clearance areas.

Product		Weight
ID No.	Length	lbs.
J193	18-1/8"	.43



Pliers, Snips, Clamps & Eye Bolts



SET NO. FW-184.J5VE - 6 PC. FACOM® 1000VE PLIER/SCREWDRIVER SET

- Designed for working on live components up to 1000V AC and 1500V DC.
- Weight: 2.43 lbs.



Product ID No.	Contents	Item Description
FW-184.J5VE	FA-185.20VE	Pliers Halfround 1000V VE 7-7/8"
	FA-187.18VE	Pliers Combination 1000V VE 7-1/4"
	FA-192.16VE	Pliers Diag 1000V 6-1/4"
	FW-ADY.1X100VE	Screwdriver 1000V PZ1
	FW-AY.4X100VE	Screwdriver 1000V 4 mm Slot 7-7/8"
	FW-AY.5.5X125V	Screwdriver 1000V 5.5 mm Slot 8-7/8"



SET NO. FW-MOD.VE - 3 PC. FACOM® 3 PC. VE PLIERS SET

- 1000V insulated grips designed for electrical safety when working on or near live components.
- Handles designed to resist workshop chemicals (Skydrol®, chloroethene, acetone, petrol).
- Weight: 1.66 lbs.



Product ID No.	Contents	Size
FW-MOD.VE	FA-180.VE	10"
	FA-194.17VE	6-1/2"
	FA-391.16VE	6-1/2"



FACOM® INSULATED VE MULTIGRIP PLIERS

- 1000V insulated grips designed for electrical safety when working on or near live components.



Product ID No.	Size	Length	Jaw Length	Jaw Width	Weight lbs.
FA-180.VE	10"	10"	1-3/16"	7/8"	0.78 lbs.



Skydrol® is a trademark of Solutia, Inc.

Pliers, Snips, Clamps & Eye Bolts



FACOM® INSULATED VE HALF ROUND PLIERS

- 1000V insulated grips designed for electrical safety when working on or near live components.
- Side cutter for steel wire up to 14 AWG.
- Serrated jaws with central area for handling rods.



Product ID No.	Size	Length	Jaw Length	Jaw Width	Weight lbs.
FA-185.20VE	7-7/8"	7-7/8"	2-15/16"	11/32"	0.45 lbs.
FA-193.16VE	6-1/2"	6-7/8"	1-13/16"	11/32"	0.41 lbs.

FACOM® INSULATED VE COMBINATION PLIERS

- 1000V insulated grips designed for electrical safety when working on or near live components.
- High-frequency hardened cutting edges for power and durability.
- Nose profile designed for strength and durability.
- Handles designed to resist workshop chemicals (Skydrol®, chloroethene, acetone, petrol).



Product ID No.	Size	Length	Jaw Length	Jaw Width	Weight lbs.
FA-187.16VE	6-1/2"	6-1/2"	1-11/32"	3/8"	0.43
FA-187.18VE	7-1/4"	7-9/32"	1-13/32"	13/32"	0.53 lbs.

FACOM® INSULATED VE FLAT NOSE PLIERS

- 1000V insulated grips designed for electrical safety when working on or near live components.
- Serrated jaws for firm grip.
- Nose designed for confined spaces.
- Handles designed to resist workshop chemicals (Skydrol®, chloroethene, acetone, petrol).



Product ID No.	Size	Length	Jaw Length	Jaw Width	Weight lbs.
FA-188.16VE	6-1/2"	6-11/16"	1-13/16"	11/32"	0.38
FA-188.20VE	7-7/8"	8-1/16"	2-15/16"	11/32"	0.42

Skydrol® is a trademark of Solutia, Inc.



Pliers, Snips, Clamps & Eye Bolts



FACOM® INSULATED VE ROUND NOSE PLIERS

- 1000V insulated grips designed for electrical safety when working on or near live components.
- For shaping loops, bends or rings.
- Serrated jaws.

Product ID No.	Size	Length	Jaw Length	Jaw Width	Weight lbs.
FA-189.17VE	6-1/2"	6-7/8"	1-13/16"	11/32"	0.37



FACOM®

FACOM® INSULATED WIRE STRIPPER PLIERS

- 1000V insulated grips designed for electrical safety when working on or near live components.
- Jaws angled at 40°.
- Cuts single and multi-cone wire up to 14 AWG.
- Serrated jaws with central area for handling rods.

Product ID No.	Size	Length	Jaw Length	Jaw Width	Weight lbs.
FA-194.17VE	6-1/2"	7-11/16"	1"	5/8"	0.38



FACOM®

FACOM® INSULATED VE BENT NOSE PLIERS

- 1000V insulated grips designed for electrical safety when working on or near live components.
- Jaws angled at 40°.
- Cuts single and multi-cone wire up to 14 AWG.
- Serrated jaws with central area for handling rods.

Product ID No.	Size	Length	Jaw Length	Jaw Width	Weight lbs.
FA-195.16VE	6-3/8"	6-7/8"	1-5/8"	11/32"	0.39
FA-195.20VE	7-7/8"	7-15/32"	2-3/4"	11/32"	0.43



FACOM®

Pliers, Snips, Clamps & Eye Bolts

FACOM® INSULATED VE END CUTTER PLIERS

- 1000V insulated grips designed for electrical safety when working on or near live components.
- High-frequency hardened cutting edges ensure durable cut quality for hard wire up to 12 AWG.
- Offset pivot to help reduce manual cutting efforts required with a center pivot point.

Product ID No.	Size	Length	Jaw Length	Jaw Width	Weight lbs.
FA-190.16VE	6-1/2"	6-1/2"	1/4"	7/16"	0.51



FACOM® INSULATED VE DIAGONAL PLIERS

- 1000V insulated grips designed for electrical safety when working on or near live components.
- High-frequency hardened cutting edges ensure durable cut quality for hard wire up to 12 AWG.
- Offset pivot to help reduce manual cutting efforts required with a center pivot point.

Product ID No.	Size	Length	Jaw Length	Jaw Width	Weight lbs.
FA-192.14VE	5-3/4"	5-23/32"	5/8"	3/8"	0.36
FA-192.16VE	6-1/4"	6-7/8"	23/32"	13/32"	0.46
FA-192.18VE	7-1/8"	7-15/32"	25/32"	7/16"	0.57



FACOM® INSULATED VE DIAGONAL CUTTERS

- 1000V insulated grips designed for electrical safety when working on or near live components.
- Edges designed for clean cut in copper wire.
- High-frequency hardened cutting edges for durable cut accuracy.
- Snip nose for maneuverability in control cabinets or cutting cable loom ties.
- Offset pivot to help reduce manual cutting efforts required with a center pivot point.

Product ID No.	Size	Length	Jaw Length	Jaw Width	Weight lbs.
FA-391.16VE	6-1/2"	6-11/16"	3/4"	13/32"	0.46



Pliers, Snips, Clamps & Eye Bolts



FACOM® INSULATED VSE MULTIGRIP PLIERS

- 2 color warning handle insulation - color changes from orange to yellow if insulation integrity compromised.
- 1000V insulated grips designed for electrical safety when working on or near live components.

Product ID No.	Size	Length	Jaw Length	Jaw Width	Weight lbs.
FA-180.VSE	10"	10-1/32"	1-9/16"	1-3/8"	0.81



FACOM® INSULATED VSE HALF ROUND PLIERS

- 2 color warning handle insulation - color changes from orange to yellow if insulation integrity compromised.
- Insulated to 1000V AC or 1500 DC.
- Integrated wire-cutter.
- Burnished nose.

Product ID No.	Size	Length	Jaw Length	Jaw Width	Weight lbs.
FA-185.20AVSE	7-7/8"	8-9/32"	2-23/32"	1-3/8"	0.53
FA-193.16AVSE	6-1/2"	6-7/8"	1-31/32"	1-1/4"	0.37



FACOM® INSULATED VSE COMBINATION PLIERS

- 2 color warning handle insulation - color changes from orange to yellow if insulation integrity compromised.
- Insulated to 1000V AC or 1500 DC.
- Hardened throughout for overall strength.
- Cutting edges locally heat-treated to exceed 60 HRc hardness.
- Burnished nose.

Product ID No.	Size	Length	Jaw Length	Jaw Width	Weight lbs.
FA-187.16AVSE	6-1/2"	6-1/2"	1-11/32"	1-3/8"	0.44
FA-187.18AVSE	7-1/4"	7-3/32"	1-3/8"	1-3/8"	0.54
FA-187.20AVSE	8"	7-9/32"	1-43/64"	1-3/8"	0.69



Pliers, Snips, Clamps & Eye Bolts



FACOM® INSULATED VSE FLAT NOSE PLIERS

- 2 color warning handle insulation - color changes from orange to yellow if insulation integrity compromised.
- Insulated to 1000V AC or 1500 DC.
- Serrated jaws for firm grip.
- Burnished nose.



Product ID No.	Size	Length	Jaw Length	Jaw Width	Weight lbs.
FA-188.16AVSE	6-1/2"	6-11/16"	1-31/32"	1-15/32"	0.37

FACOM® INSULATED VSE ROUND NOSE PLIERS

- 2 color warning handle insulation - color changes from orange to yellow if insulation integrity compromised.
- Insulated to 1000V AC or 1500 DC.
- Long snipe nose, serrated for shaping bends or terminals on all types of wire.
- Burnished nose.



Product ID No.	Size	Length	Jaw Length	Jaw Width	Weight lbs.
FA-189.17AVSE	6-1/2"	6-7/8"	1-25/32"	1-5/16"	0.36

FACOM® INSULATED VSE WIRE STRIPPERS

- 2 color warning handle insulation - color changes from orange to yellow if insulation integrity compromised.
- Strips any wire in all common electrical systems, up to 10 AWG.
- Burnished nose.
- Knob for presetting the cutting depth.



Product ID No.	Size	Length	Jaw Length	Jaw Width	Weight lbs.
FA-194.17AVSE	6-1/2"	6-7/8"	7/8"	5/16"	0.45



Pliers, Snips, Clamps & Eye Bolts



FACOM® INSULATED VSE BENT NOSE PLIERS

- 1000V insulated grips designed for electrical safety when working on or near live components.
- Intergral wire-cutter.
- 2 color warning insulation color changes from orange to yellow if insulation integrity is compromised.
- Burnished nose.

Product ID No.	Size	Length	Jaw Length	Jaw Width	Weight lbs.
FA-195.20AVSE	7-7/8"	7-15/32"	2-17/32"	1-1/4"	0.43



FACOM® INSULATED VSE CABLE CUTTERS

- 2 color warning handle insulation - color changes from orange to yellow if insulation integrity compromised.
- High performance compact tool.
- Forged safety stops.
- Burnished nose.

Product ID No.	Size	Length	Jaw Length	Jaw Width	Weight lbs.
FA-412.10AVSE	7-1/2"	7-7/8"	3-1/3"	1-3/8"	0.91
FA-412.14AVSE	9"	9"	1-3/16"	1-3/8"	1.12
FA-412.150AVSE	17-3/4"	18-1/2"	2-23/64"	1-3/4"	4.71



FACOM® INSULATED VSE CABLE CUTTERS RATCHETING

- 2 color warning handle insulation - color changes from orange to yellow if insulation integrity compromised.
- One-handed operation.
- No cable core distortion.
- Forged and hardened steel blade.

Product ID No.	Size	Length	Jaw Width	Weight lbs.
FA-414.36AVSE	1-3/8"	11-13/16"	4-1/8"	1.78
FA-414.45AVSE	1-3/4"	12"	5-5/16"	2.19
FA-414.52AVSE	2"	13-3/16"	5-1/2"	2.26



Pliers, Snips, Clamps & Eye Bolts



FACOM® INSULATED VSE END CUTTER PLIERS

- 2 color warning handle insulation - color changes from orange to yellow if insulation integrity compromised.
- Cutting edges heat-treated to exceed 60 HRc.
- Burnished nose.

Product ID No.	Size	Length	Jaw Length	Jaw Width	Weight lbs.
FA-190.16AVSE	6-1/2"	6-11/16"	1/4"	1-3/8"	0.56



FACOM® INSULATED VSE DIAGONAL PLIERS

- 2 color warning handle insulation - color changes from orange to yellow if insulation integrity compromised.
- Cutting edges heat-treated to exceed 60 HRc hardness.
- Burnished nose.

Product ID No.	Size	Length	Jaw Length	Jaw Width	Weight lbs.
FA-192.14AVSE	5-3/4"	6-3/32"	5/8"	1-3/16"	0.48 lbs.
FA-192.16AVSE	6-1/2"	6-1/2"	23/32"	13/32"	0.54 lbs.
FA-192.18AVSE	7-1/4"	7-9/32"	25/32"	7/16"	0.60 lbs.



FACOM® INSULATED VSE DIAGONAL CUTTERS

- 2 color warning handle insulation - color changes from orange to yellow if insulation integrity compromised.
- Inset joint.
- Burnished nose.

Product ID No.	Size	Length	Jaw Length	Jaw Width	Weight lbs.
FA-391.16AVSE	6-1/2"	6-5/16"	3/4"	13/32"	0.47



Pliers, Snips, Clamps & Eye Bolts



SET NO. J360B - 12 PC. CONVERTIBLE RETAINING RING PLIERS SET

- Convenient blow molded carrying case includes storage for spare rings.
- Ring range: External (Shaft) 1/4" - 3-11/32"; Internal (Bore) 3/8" - 3".
- Weight: 4.82 lbs.

Product ID No.	Contents	Tip Size	Tip Angle	Tip Length
J360B	J399	.038	0°	5-7/8"
	J370	.038	45°	5-3/4"
	J371	.038	90°	5-11/16"
	J372	.047	0°	5-7/8"
	J373	.047	45°	5-3/4"
	J374	.047	90°	5-11/16"
	J385	.070	0°	7-1/2"
	J375	.070	45°	7-3/8"
	J376	.070	90°	7-1/8"
	J377	.090	0°	9-1/4"
	J378	.090	45°	9"
	J379	.090	90°	8-5/8"



SET NO. J360A - 6 PC. CONVERTIBLE RETAINING RING PLIERS SET

- Convenient blow molded carrying case includes storage for space rings.
- Ring range: External (Shaft) 1/4" - 3-11/32"; Internal (Bore) 3/8" - 3"
- Weight: 2.10 lbs

Product ID No.	Contents	Tip Size	Tip Angle	Tip Length
J360A	J399	.038	0°	5-7/8"
	J371	.038	90°	5-11/16"
	J372	.047	0°	5-7/8"
	J374	.047	90°	5-11/16"
	J385	.070	0°	7-1/2"
	J376	.070	90°	7-1/2"



Pliers, Snips, Clamps & Eye Bolts

SET NO. J361 - RETAINING RING PLIERS SET WITH REPLACEMENT TIPS

- Includes one internal and one external plier.
- Convenient blow molded carrying case includes storage for spare rings.
- Custom grip handles for added comfort.
- Contains 16 interchangeable tips listed below. (Replacements available).
- Covers Ring Range: External 1-1/2" - 3-3/4". Internal 2-7/16" - 4".
- Spring loaded ratchet mechanism minimizes operator fatigue by allowing ring to be compressed or expanded through gradual moves and locks at desired size. Heavy and large rings are safely and easily controlled.
- Pliers overall length 9-1/2".
- Weight: 2.5 lbs.



Product ID No.	Tip Size	Tip Angle	Tip Size	Tip Angle
J361	.108	0°	.120	0°
	.108	15°	.120	15°
	.108	45°	.120	45°
	.108	90°	.120	90°

SET NO. J360C - 4 PC. CONVERTIBLE RETAINING RING PLIERS SET

- Design permits quick change-over to work internal or external rings.
- Pliers have no screws to tighten.
- Pliers have a return spring designed to reduce fatigue and facilitate operation.
- Pliers have air cushioned grips which spreads loads across the hand increasing comfort.
- Ring range: External (Shaft) 1/4" - 2"; Internal (Bore) 3/8" - 2".
- Weight: 1.26 lbs.



Product ID No.	Contents	Tip Size	Tip Angle	Length
J360C	J399L	.038	18°	6"
	J371L	.038	90°	5-3/4"
	J385L	.070	18°	7-1/4"
	J376L	.070	90°	6-3/4"

Pliers, Snips, Clamps & Eye Bolts

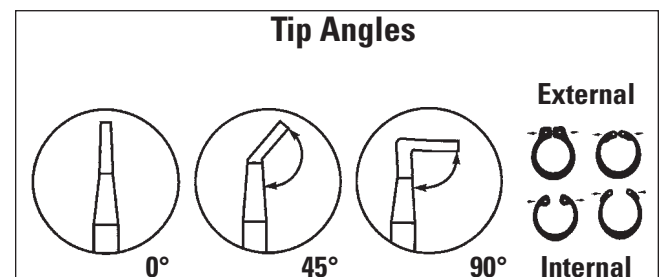


RETAINING RING PLIERS - CONVERTIBLE

- Converts from internal to external or vice versa, when pivot screw is moved to adjacent tapped hole.
- Use with either External or Internal Retaining Rings.
- Fixed tips are precision formed and induction hardened for accurate fit and long wear.
- Use the largest diameter tip that will fit the retaining ring being removed or installed.



Product ID No.	Tip Size	Tip Angle	Length	Weight lbs.	ASME Spec.
J399	.038	0°	5-7/8"	.15 lbs.	B107.19
J370	.038	45°	5-3/4"	.16 lbs.	B107.19
J371	.038	90°	5-11/16"	.16 lbs.	B107.19
J372	.047	0°	5-7/8"	.16 lbs.	B107.19
J373	.047	45°	5-3/4"	.15 lbs.	B107.19
J374	.047	90°	5-11/16"	.16 lbs.	B107.19
J385	.070	0°	7-1/2"	.29 lbs.	B107.19
J375	.070	45°	7-3/8"	.32 lbs.	B107.19
J376	.070	90°	7-1/8"	.31 lbs.	B107.19
J377	.090	0°	9-1/4"	.54 lbs.	B107.19
J378	.090	45°	9"	.55 lbs.	B107.19
J379	.090	90°	8-5/8"	.56 lbs.	B107.19
J399L	.038	18°	6"	.19 lbs.	B107.19
J371L	.038	90°	6"	.19 lbs.	B107.19
J385L	.070	18°	7-1/4"	.33 lbs.	B107.19
J376L	.070	90°	7-1/4"	.33 lbs.	B107.19



Pliers, Snips, Clamps & Eye Bolts



LARGE RETAINING RING PLIERS - INTERNAL/EXTERNAL

- Spring loaded ratchet mechanism minimizes operator fatigue by allowing the ring to be compressed or expanded through gradual "moves" and then locks at the desired size without continued pressure on the handles. Heavy and large rings are safely and easily controlled.
- Replaceable tips in 0°, 45° and 90° make it possible to remove and install rings in most applications. (Replacements available).



Product ID No.	Tip Angle	Tip Size	Length	Shaft Diameter In. (External)	Bore Diameter In. (Internal)	Weight lbs.	ASME Spec.
J364	0°	.120	16-1/2"		3-1/16 -6"	1.95 lbs.	B107.19
J365	0°	.120	16-1/2"	3-1/2" - 6-1/2"		1.98 lbs.	B107.19

REPLACEMENT TIPS FOR J364 AND J365

- 0°.

Product ID No.	Weight lbs.
J364-T0	0.12

REPLACEMENT TIPS FOR J364 AND J365

- 45°.

Product ID No.	Weight lbs.
J364-T45	0.12

REPLACEMENT TIPS FOR J364 AND J365

- 90°.

Product ID No.	Weight lbs.
J364-T90	0.12



Pliers, Snips, Clamps & Eye Bolts



RETAINING RING PLIERS - EXTERNAL

- Used with External Retaining Rings.
- Fixed tips are precision formed and induction hardened for accurate fit and long wear.



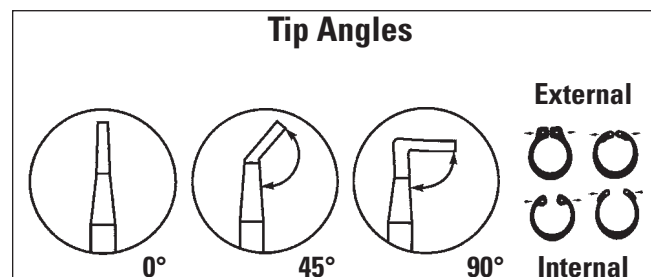
Product ID No.	Tip Angle	Tip Size	Tip Length	Shaft Diameter	Weight lbs.	ASME Spec.
J391	0°	.038	6-1/8"	1/4" - 21/32"	.15 lbs.	B107.19
J397	90°	.038	6-1/8"	1/4" - 1"	.15 lbs.	B107.19
J393	0°	.070	6-7/8"	7/16" - 2"	.22 lbs.	B107.19
J395	0°	.115	9-1/8"	1-1/2" - 3-1/2"	.49 lbs.	B107.19

RETAINING RING PLIERS - INTERNAL

- Used with Internal Retaining Rings.
- Fixed tips are precision formed and induction hardened for accurate fit and long wear.



Product ID No.	Tip Angle	Tip Size	Tip Length	Weight lbs.	ASME Spec.
J390	0°	.025	5-3/8"	.14 lbs.	B107.19
J389	0°	.038	5-3/8"	.13 lbs.	B107.19
J398	45°	.038	5-3/8"	.13 lbs.	B107.19
J392	0°	.070	6-1/2"	.19 lbs.	B107.19
J394	0°	.090	9"	.47 lbs.	B107.19
J388	0°	.023	5-1/4"	.06 lbs.	B107.19



Pliers, Snips, Clamps & Eye Bolts

SET NO. J380 - RETAINING RING PLIERS SET WITH REPLACEMENT TIPS

- Includes one internal and one external plier.
- Covers Ring Range: External 1/4"-2", Internal 3/8"-2".
- Contains 16 interchangeable tips (4 of each listed below) (Replacements available).
- Pliers overall length 6-1/4".
- Weight: .64 lbs

Product ID No.	Tip Size	Tip Angle
J380	.038	90°
	.047	45°
	.047	0°
	.070	0°



REPLACEMENT TIPS FOR J380

- 16 Tips
- 4 each of .038 90°, .047 45°, .047 0°, .070 0°
- Plastic storage case.

Product ID No.	Weight lbs.
J380T	.05 lbs.



REPLACEMENT TIPS FOR J361

- 8 Tips
- 2 each of .108 Tips in 0°, 15°, 45°, 90°.

Product ID No.	Weight lbs.
J362	.22 lbs.

REPLACEMENT TIPS FOR J361

- 8 Tips
- 2 each of .120 Tips in 0°, 15°, 45°, 90°.

Product ID No.	Weight lbs.
J363	.23 lbs.



Pliers, Snips, Clamps & Eye Bolts



C-CLAMPS - HEAVY SERVICE STANDARD SCREW

- Designed for heavy service applications where the strength of the extra heavy service C-clamp is not required.
- Clamps have a high strength steel frame with a hardened forcing screw.
- Forcing screws are fitted with impact resistant pads.

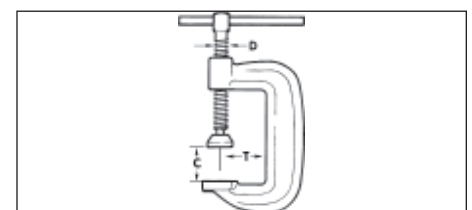
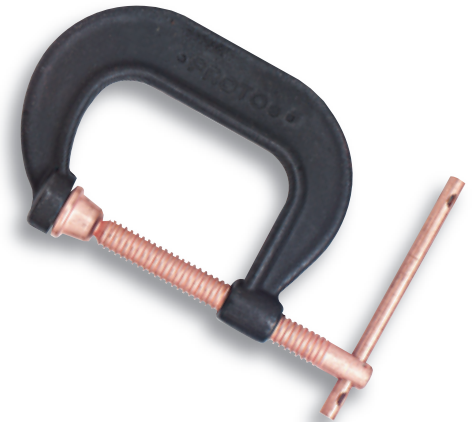
Product ID No.	C	T	D	Min. Test Load Pounds	Weight lbs.
J102GS	0" - 2"	1-3/8"	1/2"	7,500	1.3
J103GS	0"-3"	1-3/4"	5/8"	8,750	2.6
J104GS	0"-4-1/8"	2"	3/4"	10,000	4.1
J106GS	2"-6"	2-1/4"	3/4"	11,250	5.9
J108GS	4"-8"	2-1/4"	3/4"	12,500	6.9
J110GS	6"-10-1/4"	2-3/8"	3/4"	13,750	8.0
J112GS	8"-12"	2-5/8"	7/8"	15,000	11.6
J115GS	10"-15-"	2-1/2"	7/8"	16,250	15.0
J118GS	12"-18-"	2-7/8"	7/8"	17,500	18.2



C-CLAMPS - STANDARD SERVICE DEEP THROAT FULL LENGTH SCREW

- Standard service, deep throat style is the most versatile and popular.
- Hot forged for strength and hard use.
- Forcing screw has heavy rolled Acme thread allowing the screw to turn easily under pressure and is less susceptible to damage.
- Forcing screw has a sliding T handle and an impact resistant pad.

Product ID No.	C	T	D	Min. Test Load Pounds	Weight lbs.
J402	0"-2"	2"	1/2"	3,500	1.3
J403	1/2"	2-3/8"	1/2"	3,500	2.0
J404	3/4"	2-3/4"	3/4"	6,500	3.5
J406	3/4"	3-5/8"	3/4"	6,600	5.0
J408	3/4"	4-1/2"	3/4"	6,900	7.0
J410	3/4"	5-3/8"	3/4"	8,000	10.5
J412	7/8"	5-3/4"	7/8"	9,500	15.5



Pliers, Snips, Clamps & Eye Bolts



C-CLAMPS - STANDARD SERVICE DEEP THROAT SPATTER RESISTANT FULL LENGTH SCREW

- Forcing screw and pad are plated with copper to resist welding spatter.
- Hot forged for strength and hard use.
- Forcing screw has heavy rolled Acme thread allowing the screw to turn easily under pressure and is less susceptible to damage.
- Forcing screw has a sliding T handle and an impact resistant pad.



Product ID No.	C	T	D	Min. Test Load Pounds	Weight lbs.
J402S	0"-2"	2"	1/2"	3,300	1.3
J403S	0"-3"	2-3/8"	1/2"	3,500	2.0
J404S	0"-4"	2-3/4"	3/4"	4,100	3.5
J406S	0"-6"	3-5/8"	3/4"	5,400	5.0
J408S	0"-8"	4-1/2"	3/4"	5,900	7.0
J410S	0"-10"	5-3/8"	3/4"	6,200	10.5
J412S	0"-12"	5-3/4"	7/8"	9,300	15.5

C-CLAMPS - STANDARD SERVICE EXTRA DEEP THROAT FULL LENGTH SCREW

- Up to 32% more throat depth than standard deep throat clamps.
- Hot forged for strength and hard use.
- Forcing screw has heavy rolled Acme thread.
- Full length forcing screw.



Product ID No.	C	T	D	Min. Test Load Pounds	Weight lbs.
J424	0 - 4"	3-5/8"	3/4"	4,100	4.8
J426	0 - 6"	4-3/4"	3/4"	5,400	7.0
J428	0 - 8"	5-5/8"	3/4"	5,900	9.8

C-CLAMPS - STANDARD SERVICE EXTRA DEEP THROAT SPATTER RESISTANT FULL LENGTH SCREW

- Forcing screw and pad are plated with copper to resist welding spatter.
- Up to 32% more throat depth than standard deep throat clamps.
- Hot forged for strength and hard use.
- Forcing screw has heavy rolled Acme thread.
- Full length forcing screw.



Product ID No.	C	T	D	Min. Test Load Pounds	Weight lbs.
J424S	0 - 4"	3-5/8"	3/4"	4,100	4.8
J426S	0 - 6"	4-3/4"	3/4"	5,400	7.0
J428S	0 - 8"	5-5/8"	3/4"	5,900	9.8



Pliers, Snips, Clamps & Eye Bolts



C-CLAMPS - EXTRA HEAVY SERVICE STANDARD SCREW

- Strongest C-clamp design.
- Heavy-duty threaded hub provides maximum screw support.
- Forcing screws have a square head to be turned with a wrench.
- Forcing screws have a hardened tip.

Product ID No.	C	T	D	Min. Test Load Pounds	Weight lbs.
J0-HD	0"-13/16"	5/8"	3/8"	2,800	0.4
J1-HD	0"- 7/16"	15/16"	7/16"	5,600	0.7
J11/2HD	0"- 5/8"	1-3/8"	5/8"	8,750	1.9



C-CLAMPS - EXTRA HEAVY SERVICE FULL LENGTH SCREW

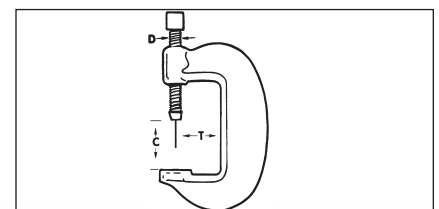
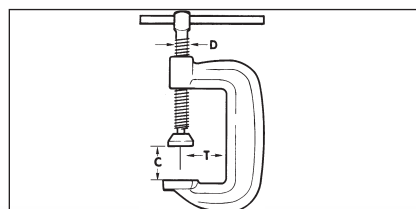
- Full length forcing screws provide greater versatility with the minimum capacity always being "0".
- Strongest C-clamp design.
- Heavy-duty threaded hub provides maximum screw support.
- Forcing screws have a square head to be turned with a wrench.
- Forcing screws have a hardened tip.

Product ID No.	C	T	D	Min. Test Load Pounds	Weight lbs.
J2-HDL	0"-2-3/8"	1-9/16"	3/4"	12,500	1.3
J3-HDL	0"-3-5/16"	2"	7/8"	16,250	2.0
J4-HDL	0"-4-5/8"	2-7/16"	1"	20,000	3.5
J5-HDL	0"-5-3/8"	3-7/8"	1"	23,000	5.0
J6-HDL	0"-6-5/8"	3-1/4"	1-1/8"	27,500	7.0
J8-HDL	0"-8-1/4"	3"	1-1/8"	31,250	10.5
J10-HDL	0"-10-3/8"	3-1/8"	1-1/4"	35,000	32.3
J12-HDL	0"-12-1/2"	3-1/2"	1-1/4"	40,000	15.5



C-CLAMP SPINDLE

Product ID No.	D	Weight lbs.
J11/2P1-HD	0.625	0.3 lbs.



Pliers, Snips, Clamps & Eye Bolts



C-CLAMP FORCING SCREWS

Product ID No.	D	Weight lbs.
J1P1-HD	0.437	0.1 lbs.
J2P2-HD	0.75	0.53 lbs.
J3P2-HD	0.875	0.99 lbs.
J4P2-HD	1	1.69 lbs.
J5P2-HD	1	1.94 lbs.
J6P2-HD	1.125	2.67 lbs.
J10P2-HD	1.25	4.58 lbs.



AVIATION SNIPS

- Available in straight, left or right models.
- Compound leverage multiplies handle pressure and increases control for intricate cutting.
- Serrated blades for maximum grip of the material being cut.
- Color coded vinyl grips.

Product ID No.	Cuts	Handle Color	Overall Length	Blade Length	Weight lbs.	ASME Spec.
J303L	Left	Red	10"	1-3/8"	.94	B107.16M
J303R	Right	Green	10"	1-3/8"	.94	B107.16M
J303S	Straight	Yellow	10"	1-3/8"	.94	B107.16M



CIRCULAR CUTTING SNIPS

- Duckbill snips are designed for circle and odd shaped radius cutting.
- Plastisol grips for added comfort.

Product ID No.	Overall Length	Blade Length	Weight lbs.
J307	7"	1-1/2"	.45
J310	10"	2"	.95
J312	12-3/4"	2-3/4"	1.61



Pliers, Snips, Clamps & Eye Bolts



HEAVY-DUTY SNIPS

- Designed for making straight and moderately irregular cuts.
- Plastisol grips for added comfort.
- J334 cuts up to 18 gauge CR steel and 22 gauge SS.

Product ID No.	Overall Length	Blade Length	Weight lbs.	ASME Spec.
J334	14"	3-7/8"	3.02	B107.16M
J336	16"	2 1/2"	3.63	B107.16M



AVIATION SNIPS - OFFSET

- Available in left or right models.
- Compound leverage multiplies handle pressure and increases control.
- Offset handle keeps hands above working area for cutting ease and comfort.
- Serrated blades for maximum grip of the material being cut.

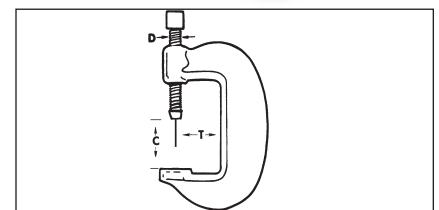
Product ID No.	Cuts	Handle Color	Overall Length	Blade Length	Weight lbs.	ASME Spec.
J303LS	Left	Red	10"	1-1/4"	1.00	B107.16M
J303RS	Right	Green	10"	1-1/4"	1.00	B107.16M



STRAIGHT CUTTING SNIPS

- Designed for all straight cutting including inside and outside corners.
- Plastisol grips for added comfort.

Product ID No.	Overall Length	Blade Length	Weight lbs.
J317	7"	1-1/2"	.48
J320	10"	2"	.93
J322	12-3/4"	2-3/4"	1.64



Pliers, Snips, Clamps & Eye Bolts



MINIATURE SNIPS

- Excellent lightweight shears for electronics assembly and repair work.
- Ideal for cutting gasket material, shim stock and tin plate.
- Cuts light piano wire and cold rolled sheet to .025".
- Plastisol grips for added comfort.

Product ID No.	Overall Length	Blade Length	Weight lbs.
J306	6-1/2"	1-1/8"	.29



FORGED EYE BOLTS

- Maximum load ratings for eye bolts are drastically reduced when loading at an angle.
- Angular loads should be avoided whenever possible.
- For angular loads of 15° or more, consult B18.15.
- Certified mercury free.



Product ID No.	Thread Size UNCI-2A (A)	Shank Length (B)	Eye ID (C)	OD (D)	Overall Length (E)	Center Eye To Shoulder (F)	Rated Capacity lbs.	Weight lbs.	ASME Spec.
J94020	1/4 - 20	1.00	.69 - .81	1.19	2.22 - 2.53	.69 - .81	500	.05	B18.15
J94021	5/16 - 18	1.12	.81 - .94	1.44	2.66 - 2.97	.88 - 1.00	900	.10	B18.15
J94022	3/8 - 16	1.25	.94 - 1.06	1.69	3.09 - 3.47	1.06 - 1.09	1,300	.16	B18.15
J94023	7/16 - 14	1.38	1.00 - 1.12	1.81	3.41 - 3.78	1.19 - 1.31	1,800	.24	B18.15
J94024	1/2 - 13	1.50	1.12 - 1.25	2.12	3.81 - 4.19	1.31 - 1.44	2,400	.35	B18.15
J94025	9/16 - 12	1.75	1.31 - 1.44	2.56	4.56 - 4.94	1.59 - 1.72	3,200	.47	B18.15
J94026	5/8 - 11	1.75	1.31 - 1.44	2.56	4.56 - 4.94	1.59 - 1.72	4,000	1.00	B18.15
J94027	3/4 - 10	2.00	1.44 - 1.56	2.81	5.0 - 5.50	1.72 - 1.91	5000	1.00	B18.15
J94028	7/8 - 9	2.25	1.56 - 1.69	3.19	5.75 - 6.19	2.03 - 2.22	7,000	1.63	B18.15
J94029	1 - 8	2.50	1.69 - 1.81	3.56	6.44 - 6.88	2.22 - 2.41	9,000	2.22	B18.15
J94030	1-1/8 - 7	2.75	1.94 - 2.06	4.06	7.31 - 7.75	2.59 - 2.78	12,000	3.40	B18.15
J94031	1-1/4 - 7	3.00	2.12 - 2.25	4.44	8.00 - 8.44	3.03 - 2.84	15,000	4.44	B18.15
J94032	1-1/2 - 6	3.50	2.44 - 2.56	5.19	9.22 - 9.72	3.19 - 3.44	21,000	7.36	B18.15
J94033	1-3/4 - 5	3.75	2.75 - 3.00	6.00	10.50 - 11.12	3.88 - 4.12	28,000	11.35	B18.15
J94034	2 - 4-1/2	4.00	3.06 - 3.44	6.88	11.53 - 12.22	4.25 - 4.50	38,000	16.70	B18.15

