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**PLIERS, CLAMPING & CUTTING**

**PROTO**®



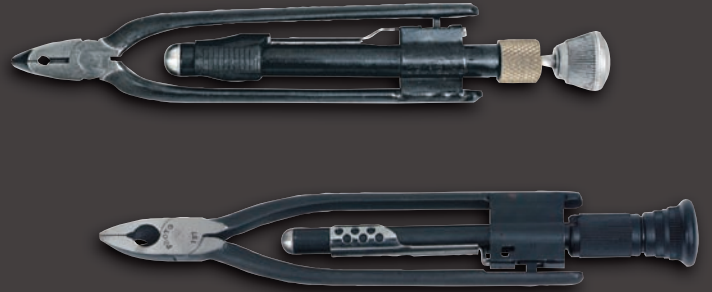


# PLIERS GUIDE

## SAFETY WIRE PLIERS

Safety wire is a type of positive locking device that prevents fasteners from loosening due to vibration and other forces. The presence of safety wiring also serves to indicate that the fasteners have been properly tightened.

Safety wire is available in a variety of gauges and materials, depending on the application. In aircraft and racing applications, stainless steel wire is used, most commonly in .032" diameter. Typically, the wire is threaded through a hole drilled into a fastener or part, then twisted and anchored to a second fastener or part, then twisted again.



## LOCKING PLIERS

Multiple jaws for a wide range of applications.

### STRAIGHT

(Pg. 682)



### CURVED

(Pg. 682)



### LONG NOSE

(Pg. 683)



### CHAIN

(Pg. 683)



### CLAMPING

(Pg. 685)



### WELDING

(Pg. 684)



## SLIP-JOINT PLIERS

Adjustable for a variety of general uses.

### TONGUE & GROOVE

(Pg. 669)



### COMBINATION

(Pg. 668)



### THIN NOSE

(Pg. 678)



### HOSE CLAMP

(Pg. 678)



## INSULATED PLIERS

Insulated to 1000 volts AC and 1500 volts DC.

### MULTIGRIP

(Pg. 696)



### FLAT NOSE

(Pg. 697)



### END CUTTER

(Pg. 701)



### BENT NOSE

(Pg. 700)



## FIXED-JOINT PLIERS

Flush joint design for specialty jaws.

### NEEDLE-NOSE

(Pg. 671)



### DUCKBILL

(Pg. 673)



### DIAGONAL CUTTING

(Pg. 674)



### LINEMAN'S

(Pg. 676)



## PROTO® XL PLIERS


- › Combination pliers have shear type cutters.
- › Accurately machined joints assembled with permanent rivet for strength and precision movement.
- › Pliers with teeth on inside joint are milled parallel with pliers halves for perpendicular grab while pulling wire, fish tape, etc.
- › Exclusive Flush Fastener provides better access with increased user adjustability making it 30% narrower.
- › Flush Fastener allows pliers to lay flat in the work place and prevents snagging on tool belts/pouches.
- › Flush Fastener is a nut and bolt assembly and can easily be adjusted by the end user in the field.
- › Jaws are milled with deep self-gripping pipe wrench style teeth for maximum bite.
- › Combination jaws are milled with deep, sharp, lobster claw design that give two gripping areas with each position.
- › Accurately machined undercut tongue and groove points for precision movement and joint strength.

### 5 PIECE XL GROOVE JOINT PLIERS SET

Product #: **J260XLS**

Contents	Description
J261SGXL	Pliers, XL Series Groove Joint w/ Grip 5"
J262SGXL	Pliers, XL Series Groove Joint w/ Grip 7"
J260SGXL	Pliers, XL Series Groove Joint w/ Grip 10"
J264SGXL	Pliers, XL Series Groove Joint w/ Grip 12"
J265SGXL	Pliers, XL Series Groove Joint w/ Grip 16"

Weight (lbs): 6.15

ASME B107.23-2004 



### 2 PIECE XL GROOVE JOINT PLIERS SET

Product #: **J262XLS**

Contents	Description
J262SGXL	Pliers, XL Series Groove Joint w/ Grip 7"
J260SGXL	Pliers, XL Series Groove Joint w/ Grip 10"

Weight (lbs): 1.45

ASME B107.23-2004 



### 3 PIECE XL SLIP-JOINT PLIERS SET

Product #: **J276XLS**

Contents	Description
J276GXL	Pliers, XL Series Combo Slip-Joint w/ Grip 6"
J278GXL	Pliers, XL Series Combo Slip-Joint w/ Grip 8"
J280GXL	Pliers, XL Series Combo Slip-Joint w/ Grip 10"

Weight (lbs): 2.05

ASME B107.23-2004 







## 3 PIECE XL SERIES SLIP-JOINT NATURAL FINISH PLIERS SET

Product #: J276XLNFS

- ▶ Non-gripped versions are complemented with deep, strong, drop forged knurled impressions making it non-slip.
- ▶ The impressions can also be used to file off a burr.



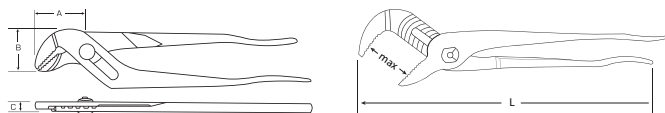
XL SERIES PLIERS

Contents	Description
J2766XL	Pliers, XL Series Combo Slip-Joint 6" (Natural Finish)
J278XL	Pliers, XL Series Combo Slip-Joint 8" (Natural Finish)
J2800XL	Pliers, XL Series Combo Slip-Joint 10" (Natural Finish)

Weight (lbs): 1.95

ASME B107.23-2004

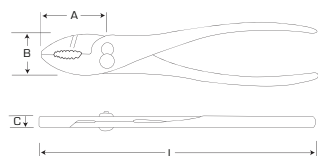
## XL SERIES FLUSH FASTENER GROOVE JOINT PLIERS



Product #	Overall Length (in) (L)	Max. Opening (in)	Jaw Length (in) (A)	Jaw Width (in) (B)	Jaw Thickness (in) (C)	Weight (lbs)
J261SGXL	5	35/64	31/32	3/4	15/64	0.15
J262SGXL	7	1-3/32	1-43/64	1-19/64	1-19/64	0.5
J260SGXL	10	1-49/64	2-3/32	1-19/32	27/64	0.94
J264SGXL	12	2-43/64	2-45/64	2-1/2	33/64	1.95
J265SGXL	16	4-13/64	3	3-3/32	33/64	2.6

ASME B107.23-2004

## XL SERIES FLUSH FASTENER SLIP-JOINT PLIERS



Product #	Overall Length (in) (L)	Max. Opening (in)	Jaw Length (in) (A)	Jaw Width (in) (B)	Jaw Thickness (in) (C)	Weight (lbs)
J276GXL	6-1/2	1/2	1-1/4	1-1/4	13/32	0.5
J278GXL	8	11/16	2-3/32	1-5/16	13/32	0.64
J280GXL	10	31/64	2-11/64	1-13/32	31/64	0.9
J2766XL*	6-1/2	25/64	1-27/32	1-1/4	13/32	0.45
J278XL*	8	11/16	2-3/32	1-5/16	13/32	0.6
J2800XL*	10	31/64	2-11/64	1-13/32	31/64	0.9

\* Natural Finish (No Grips)

ASME B107.23-2004

### 3 PIECE LOCK JOINT PLIERS SET

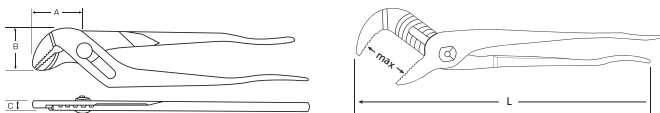
Product #: J260MGs



Contents	Description
J262MG	Pliers, Lock Joint 7"
J260MG	Pliers, Lock Joint 10"
J264MG	Pliers, Lock Joint 12"

Weight (lbs): 3.38

### LOCK JOINT PLIERS

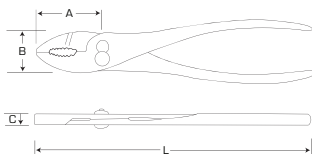


Product #	Overall Length (in) (L)	Max. Opening (in)	Jaw Length (in) (A)	Jaw Width (in) (B)	Jaw Thickness (in) (C)	Weight (lbs)
J262MG	7-9/32	2	1-57/64	55/64	19/64	0.44
J260MG	9-27/32	2-1/4	2-1/8	1-7/64	19/64	0.76
J260MGLN*	10-3/64	2-1/2	2-31/64	63/64	19/64	0.78
J264MG	12-19/32	3-1/4	2-7/8	1-3/8	23/64	1.40

\*Long Nose

### COMBINATION SLIP-JOINT PLIERS

- Has two jaw positions and shear type wire cutter.



Product #	Overall Length (in) (L)	Max. Opening (in)	Jaw Length (in) (A)	Jaw Width (in) (B)	Jaw Thickness (in) (C)	Weight (lbs)
J275*	5-3/4	9/32	1-5/16	7/8	9/32	0.24
J276*	6-1/2	3/8	1-3/4	1-3/16	3/8	0.52
J278*	8	1	1-3/4	1-13/64	1-13/64	0.67
J280*	9-1/2	15/32	2-3/8	1-7/64	1-7/64	1.00
J275G	5-13/16	9/32	1-5/16	7/8	9/32	0.24
J276G	6-9/16	1	1-3/4	1-3/16	3/8	0.52
J278G	8-1/16	1	1-3/4	1-13/64	1-13/64	0.67
J280G	9-9/16	1-7/16	2-3/8	1-7/16	15/32	1.00

\*Natural Finish (No Grips)

ASME B107.23







## 2 PIECE POWER-TRACK® II PLIERS SET

Product #: **J261SGS**

- › 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.



POWER-TRACK® II PLIERS

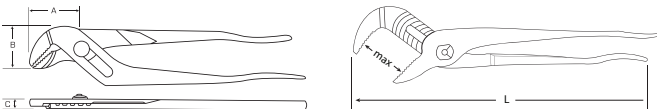
Contents	Description
J260SG	Pliers, Tongue and Groove 10-3/16" w/ Grip
J262SG	Pliers, Tongue and Groove 7-1/8" w/Grip

Weight (lbs): 1.30



## POWER-TRACK® II TONGUE & GROOVE PLIERS

- › 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 #	Overall Length (in) (L)	Max. Opening (in)	Jaw Length (in) (A)	Jaw Width (in) (B)	Jaw Thickness (in) (C)	Weight (lbs)
<b>J261SG</b>	5	15/32	7/8	13/16	3/16	0.15
<b>J262SG</b>	7-1/16	1-1/8	1-3/8	1-3/4	5/16	0.48
<b>J260SG</b>	10-3/16	2-1/8	1-15/16	2-3/4	13/32	1.00
<b>J264SG</b>	12	2-5/8	2-1/4	2-3/4	3/8	1.81
<b>J265SG</b>	16-7/8	4-1/16	3-3/8	4-1/8	17/32	3.50

ASME B107.23

## 6 PIECE ASSORTED PLIERS SET

Product #: **J202GS**

Contents	Description
J206G	Pliers, Diagonal Cutting w/Grip 6-1/16"
J227G	Pliers, Duckbill w/Grip 7-25/32"
J228G	Pliers, Needle Nose Long 7-25/32"
J260SG	Pliers, Tongue and Groove 10-3/16" w/ Grip
J267G	Pliers, Lineman's New England Style 7-1/4"
J278G	Pliers, Combination Slip-Joint w/Grip 8-1/16"

Weight (lbs): 4.01



## 4 PIECE ASSORTED PLIERS SET

Product #: **J226GS**

Contents	Description
J207G	Pliers, Diagonal Cutting w/Grip 7-5/16"
J220G	Pliers, Needle Nose 6-5/8"
J260SG	Pliers, Tongue and Groove 10-3/16" w/ Grip
J272G	Pliers, End Cutting High Leverage 8-1/4"

Weight (lbs): 2.80



## 3 PIECE ASSORTED PLIERS SET

Product #: **J227GS**

Contents	Description
J226G	Pliers, Needle Nose w/ Cutter 6-5/8"
J260SG	Pliers, Tongue and Groove 10-3/16" w/ Grip
J278G	Pliers, Combination Slip-Joint w/Grip 8-1/16"

Weight (lbs): 1.95







## 3 PIECE MINI PLIERS SET

Product #: **J285GS**

Contents	Description
J235	Pliers, Small Angle Nose w/Grip 5-1/4"
J282BSG	Pliers, Needle Nose w/ Spring 5"
J285G	Pliers, Diagonal Cutting w/ Grip 4-5/8"

Weight (lbs): 0.50



## 2 PIECE LONG REACH NEEDLE-NOSE PLIERS SET

Product #: **J242GS**

- › Plastisol grips for added comfort.

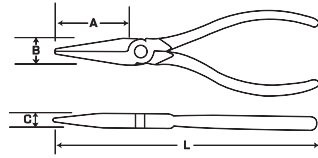
Contents	Description
J240G	Pliers, Needle-Nose Long Reach 11-9/16"
J241G	Pliers, Bent Nose Long Reach

Weight (lbs): 1.50



## NEEDLE-NOSE PLIERS

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



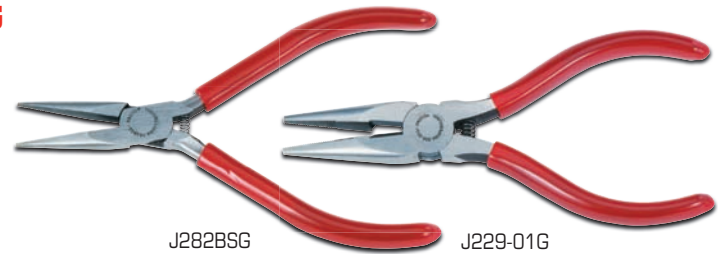
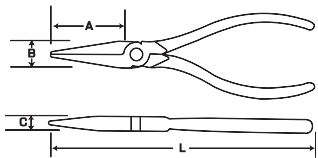
Product #	Cutter Feature	Overall Length (in) (L)	Jaw Length (in) (A)	Jaw Width (in) (B)	Jaw Thickness (in) (C)	Weight (lbs)
<b>J282G</b>	No	4-7/8	1-3/16	7/16	1/4	0.16
<b>J229-03G</b>	No	5-9/16	1-11/16	1/2	9/32	0.23
<b>J220G</b>	No	6-5/8	1-7/8	11/16	3/8	0.35
<b>J226G</b>	Yes	6-5/8	1-7/8	11/16	3/8	0.34
<b>J226-01G</b>	Yes	7-1/2	2-5/8	3/4	3/8	0.40

ASME B107.20M



## NEEDLE-NOSE PLIERS - COIL SPRING

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



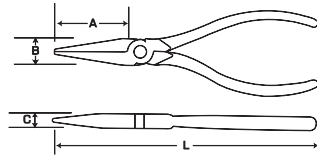
Product #	Cutter Feature	Overall Length (in) (L)	Jaw Length (in) (A)	Jaw Width (in) (B)	Jaw Thickness (in) (C)	Weight (lbs)
<b>J282BSG</b>	No	5	1-3/16	7/16	1/4	0.16
<b>J229-01G</b>	Yes	5-9/16	1-11/16	1/2	9/32	0.23

ASME B107.20M



## 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.

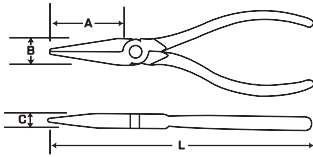


Product #	Overall Length (in) (L)	Jaw Length (in) (A)	Jaw Width (in) (B)	Jaw Thickness (in) (C)	Weight (lbs)
<b>J240G</b>	11-9/16	2-13/16	23/32	13/32	0.63



## NEEDLE-NOSE PLIERS - LONG

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

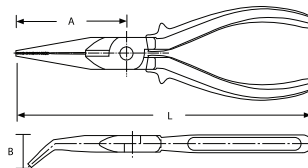


Product #	Description	Overall Length (in) (L)	Jaw Length (in) (A)	Jaw Width (in) (B)	Jaw Thickness (in) (C)	Weight (lbs)	ASME Spec
<b>J228G</b>	<b>Long</b> - Long handle for added leverage.	7-25/32	1-9/16	17/32	7/16	0.38	ASME B107.13
<b>J222G</b>	<b>Long Thin</b> - Very thin nose allows access into minimum clearance areas.	7	2-1/8	11/16	11/32	0.28	ASME B107.13
<b>J223G</b>	<b>Long Extra Thin</b> - Extra slim-nose pliers for light precision work. Designed for gripping, looping, and twisting wire in confined areas.	6-5/32	2-5/32	1/2	9/32	0.20	ASME B107.20



## BENT NOSE NEEDLE-NOSE PLIERS

- ▶ 78° angle to reach around obstructions.
- ▶ Thin nose allows access into tight areas.
- ▶ Diamond serrated jaws.
- ▶ Plastisol grips for added comfort.



Product #	Overall Length (in) (L)	Jaw Length (in) (A)	Jaw Width (in) (B)	Jaw Thickness (in) (C)	Weight (lbs)
<b>J225G</b>	6-1/2	1-5/8	3/4	3/8	0.42

ASME B107.500

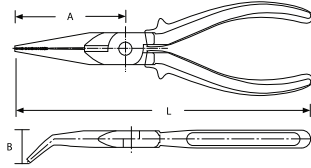






## BENT NOSE NEEDLE-NOSE PLIERS - LONG REACH

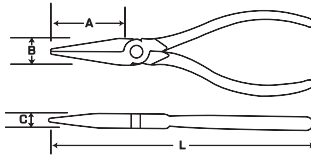
- ▶ Extra-long handle allows greater access to tight areas.
- ▶ Improved fulcrum point provides more holding power with less gripping effort.
- ▶ Bent nose design to reach around obstructions.
- ▶ Plastisol grips for added comfort.



Product #	Overall Length (in) (L)	Jaw Length (in) (A)	Jaw Width (in) (B)	Jaw Thickness (in) (C)	Weight (lbs)
<b>J2416</b>	11-3/8	2-9/16	23/32	13/32	0.62

## 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 #	Overall Length (in) (L)	Jaw Length (in) (A)	Jaw Width (in) (B)	Jaw Thickness (in) (C)	Weight (lbs)
<b>J2276</b>	7-25/32	1-9/16	17/32	7/16	0.38

ASME B107.13

## 6 PIECE CUTTING PLIERS SET

**Product #: J2016S**

Contents	Description
J204G	Pliers, Diagonal Cutting w/Grip 4-7/16"
J209G	Pliers, Diagonal Cutting HD w/Grip 7-5/16"
J226-01G	Pliers, Needle Nose w/ Spring and Cutter 7-1/2"
J229-01G	Pliers, Needle Nose w/ Spring and Cutter 5-9/16"
J269G	Pliers, Lineman's High Leverage 9-1/4"
J272G	Pliers, End Cutting High Leverage 8-1/4"

Weight (lbs): 3.90



## 3 PIECE CUTTING PLIERS SET

**Product #: J2286S**

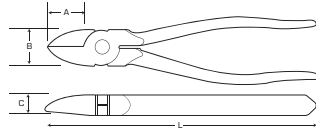
Contents	Description
J210AHG	Pliers, Diagonal Angled Head 8-1/8"
J226G	Pliers, Needle Nose w/ Cutter 6-5/8"
J269G	Pliers, Lineman's High Leverage 9-1/4"

Weight (lbs): 2.19



## DIAGONAL CUTTING PLIERS WITH GRIP

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

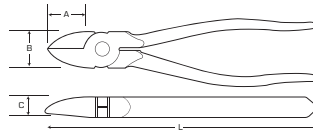


Product #	Overall Length (in) (L)	Jaw Length (in) (A)	Jaw Width (in) (B)	Jaw Thickness (in) (C)	Weight (lbs)
<b>J2856</b>	4-5/8	13/32	7/16	1/4	0.13
<b>J2046</b>	4-7/16	18/32	9/16	5/16	0.22
<b>J2056</b>	5-1/16	3/4	19/32	3/8	0.24
<b>J2066</b>	6-1/16	13/16	3/4	7/16	0.40
<b>J2076</b>	7-5/16	1	7/8	15/32	0.50

ASME B107.11 

## DIAGONAL CUTTING PLIERS - COIL SPRING

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

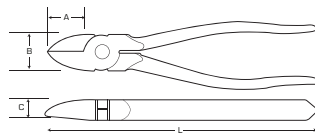


Product #	Overall Length (in) (L)	Jaw Length (in) (A)	Jaw Width (in) (B)	Jaw Thickness (in) (C)	Weight (lbs)
<b>J285BSG</b>	4-5/8	13/32	7/16	1/4	0.13
<b>J204SG</b>	4-7/16	18/32	9/16	5/16	0.22

ASME B107.11 

## DIAGONAL CUTTING PLIERS - ANGLED HEAD

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



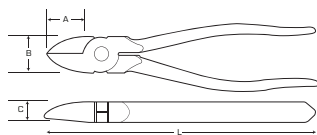
Product #	Overall Length (in) (L)	Jaw Length (in) (A)	Jaw Width (in) (B)	Jaw Thickness (in) (C)	Weight (lbs)
<b>J210AHG</b>	8-1/8	3/4	1-7/32	5/32	0.64





## HEAVY-DUTY DIAGONAL CUTTING PLIERS

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

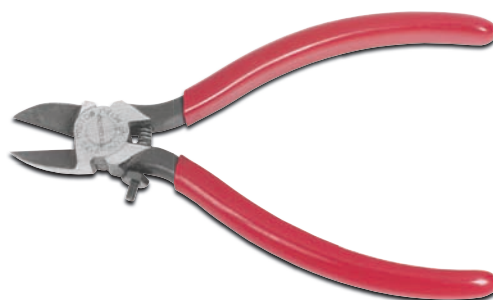
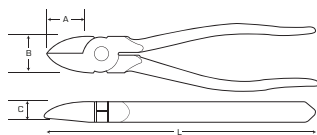


Product #	Overall Length (in) (L)	Jaw Length (in) (A)	Jaw Width (in) (B)	Jaw Thickness (in) (C)	Weight (lbs)
<b>J2096</b>	7-5/16	2-5/32	7/8	1/2	0.58
<b>J2106</b>	8-1/2	3/4	1-7/32	15/32	0.64

ASME 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.

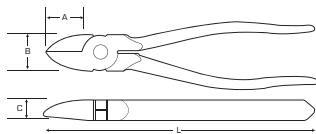


Product #	Overall Length (in) (L)	Jaw Length (in) (A)	Jaw Width (in) (B)	Jaw Thickness (in) (C)	Weight (lbs)
<b>J2126</b>	6-3/4	3/4	3/4	7/16	0.39
<b>J2136</b>	7-5/16	1	29/32	1/2	0.53



## HIGH LEVERAGE DIAGONAL CUTTING PLIERS LONG REACH - 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.



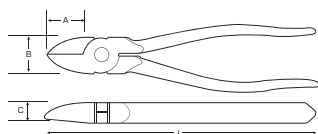
Product #	Overall Length (in) (L)	Jaw Length (in) (A)	Jaw Width (in) (B)	Jaw Thickness (in) (C)	Weight (lbs)
<b>J2446</b>	11-1/8	1	63/64	63/64	0.94





## DIAGONAL CUTTING PLIERS LONG REACH - GRIPPING TIP

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

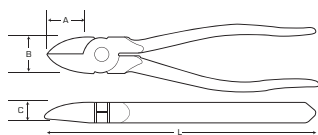


Product #	Overall Length (in) (L)	Jaw Length (in) (A)	Jaw Width (in) (B)	Jaw Thickness (in) (C)	Weight (lbs)
<b>J2466</b>	11-1/8	27/32	63/64	63/64	0.74



## 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.



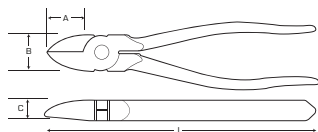
Product #	Overall Length (in) (L)	Jaw Length (in) (A)	Jaw Width (in) (B)	Jaw Thickness (in) (C)	Weight (lbs)
<b>J2726</b>	8-1/4	5/16	1-3/4	1-3/16	0.90

ASME B107.20



## 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.



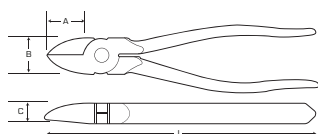
Product #	Overall Length (in) (L)	Jaw Length (in) (A)	Jaw Width (in) (B)	Jaw Thickness (in) (C)	Weight (lbs)
<b>J2686</b>	8-5/8	1-1/2	1-3/16	5/8	0.98

ASME B107.20



## LINEMAN'S PLIERS - NEW ENGLAND STYLE

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



Product #	Overall Length (in) (L)	Jaw Length (in) (A)	Jaw Width (in) (B)	Jaw Thickness (in) (C)	Weight (lbs)
<b>J2666</b>	6-3/16	1-3/32	29/32	1/2	0.50
<b>J2676</b>	7-1/2	1-9/32	1-1/8	1/2	0.67

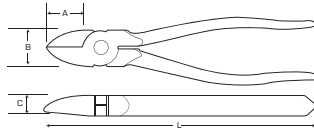
ASME B107.20





## 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.

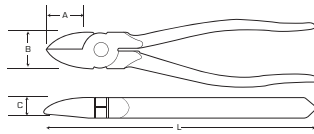


Product #	Overall Length (in) (L)	Jaw Length (in) (A)	Jaw Width (in) (B)	Jaw Thickness (in) (C)	Weight (lbs)
<b>J2696</b>	9-1/4	1-3/16	1-3/32	5/8	1.10

ASME B107.20

## LINEMAN'S PLIERS - PIPE JAW

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

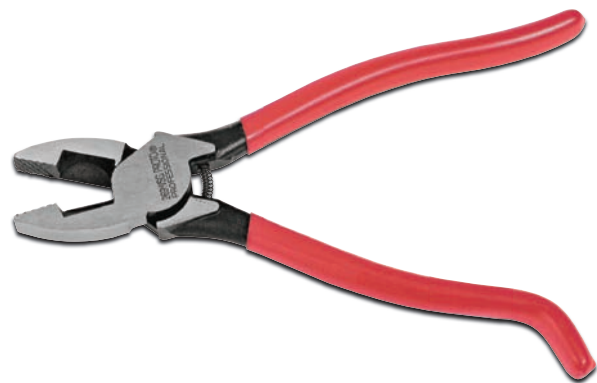
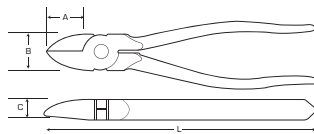


Product #	Overall Length (in) (L)	Jaw Length (in) (A)	Jaw Width (in) (B)	Jaw Thickness (in) (C)	Weight (lbs)
<b>J268PJG</b>	8-3/8	1-3/4	1-1/16	17/32	0.87



## IRON WORKER'S 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.

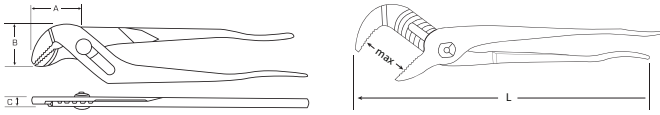


Product #	Overall Length (in) (L)	Jaw Length (in) (A)	Jaw Width (in) (B)	Jaw Thickness (in) (C)	Weight (lbs)
<b>J269WSG</b>	9-1/4	1-9/16	1-9/32	5/8	1.16



## SMALL ANGLE NOSE PLIERS

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

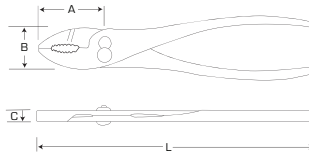


Product #	Overall Length (in) (L)	Max. Opening (in)	Jaw Length (in) (A)	Jaw Width (in) (B)	Jaw Thickness (in) (C)	Weight (lbs)
<b>J235</b>	5-1/4	5/8	3/4	5/8	11/64	0.10



## THIN NOSE SLIP-JOINT PLIERS

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



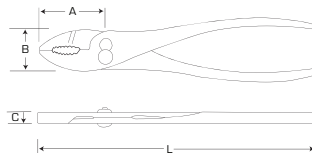
Product #	Overall Length (in) (L)	Max. Opening (in)	Jaw Length (in) (A)	Jaw Width (in) (B)	Jaw Thickness (in) (C)	Weight (lbs)
<b>J2026</b>	6-11/16	3/16	1-15/16	1-1/16	3/16	0.47

ASME B107.23



## 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.



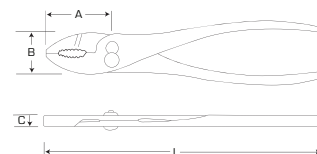
Product #	Overall Length (in) (L)	Max. Opening (in)	Replacement Item	Weight (lbs)
<b>J2536</b>	9-1/2	2-1/2	253GRK	0.54



## 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 #	Overall Length (in) (L)	Weight (lbs)
<b>J2526</b>	7-3/4	0.56







## 6 PIECE MINIATURE PLIERS SET

**Product #: J2806SMP**

- ▶ Slip-resistant Electro-Static Discharge (ESD) cushioned grips provide comfort and ease of use.
- ▶ 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.
- ▶ Full flush and semi-flush cutting edges are honed and electronically induction hardened for long life wire cutting.

Contents	Description
1	Mini diagonal cutter, tapered head, semi-flush
1	Mini diagonal cutter, oval head, flush
1	Mini slim needle-nose, not serrated jaw
1	Mini needle-nose, serrated jaw
1	Mini transverse end cutter, flush
1	Mini angled cutter, flush

Weight (lbs): 1.30



MINIATURE PLIERS

## 4 PIECE MINIATURE PLIERS SET

**Product #: J2804SMP**

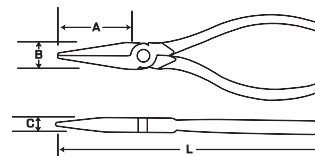
Contents	Description
1	Mini diagonal cutter, tapered head, semi-flush
1	Mini diagonal cutter, oval head, flush
1	Mini curved long nose, serrated jaw
1	Mini long nose with cutter

Weight (lbs): 0.90



## MINIATURE 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).



Product #	Style	Overall Length (in) (L)	Jaw Length (in) (A)	Jaw Width (in) (B)	Jaw Thickness (in) (C)
<b>J2834FCMP</b>	Traverse Cutter Pliers	4-1/2	15/16	7/16	1-7/8
<b>J2836SCMP</b>	End Cutting Nippers	4	1/4	7/16	3/4
<b>J2838FCMP</b>	Angle Cutter Pliers	4-1/2	3/8	7/16	1
<b>J2856RNMP</b>	Solid Joint Pliers	4-1/2	1-1/8	7/16	1-7/8

B107.25M & B107.38M



WARNING: WORK SAFELY WITH TOOLS. WEAR SAFETY GOGGLES.

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## THE QUALITY GOES INTO PROTO® LOCKING PLIERS

Designed by engineers who look at each problem with fresh eyes, no matter how simple, each Proto® tool brings quality, durability and accuracy to the job site.



## AVAILABLE IN A WIDE RANGE OF JAW TYPES





## 6 PIECE LOCKING PLIERS WELDING SET

Product #: **J298XL**



Contents	Description
J286LNXL	Pliers, Locking Mini Long Nose 6-29/32"
J289LNXL	Pliers, Locking Mini Long Nose 9"
J290XL	Pliers, Locking Curved Jaw 7"
J291XL	Pliers, Locking Straight Jaw 7-15/32"
J292XL	Pliers, Locking Curved Jaw 9-1/4"
J293XL	Pliers, Locking Straight Jaw 10"

LOCKING PLIERS SETS

## 3 PIECE LOCKING PLIERS SET

Product #: **J299RXL**



Contents	Description
J292XL	Pliers, Locking Curved Jaw 9-1/4"
J291XL	Pliers, Locking Straight Jaw 7-15/32"
J286LNXL	Pliers, Locking Mini Long Nose 6-29/32"
J25TR22C	Tool Roll, 3 Pockets

Weight (lbs): 2.98

## 3 PIECE LOCKING PLIERS SET - NICKEL CHROME

Product #: **J299NC**



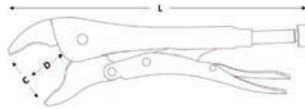
Contents	Description
J292NC	Pliers, Nickel Chrome Locking Curved 9-1/4"
J291NC	Pliers, Nickel Chrome Locking Straight 7-15/32"
J286NC	Pliers, Nickel Chrome Locking Long Nose 6-7/8"
J25TR22C	Tool Roll, 3 Pockets

Weight (lbs): 3.04



## CURVED JAW LOCKING PLIERS

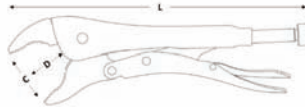
- › Narrow large opening curved shaped jaws.
- › Allows firm hold on all round shapes.
- › Universal tool for multi-use.



Product #	Overall Length (in) (L)	Jaw Capacity (in) (C)	Throat Depth (in) (D)	Weight (lbs)
J290XL	7-1/2	1-21/32	1-9/32	0.86
J292XL	9-24/64	2-28/64	1-39/64	1.41

## CURVED JAW LOCKING PLIERS WITH CUTTER

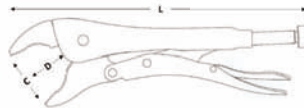
- › Wide jaw profile with wire cutter.
- › Two tools in one.
- › Universal tool for multi-use.



Product #	Overall Length (in) (L)	Jaw Capacity (in) (C)	Throat Depth (in) (D)	Weight (lbs)
J292WRXL	9-24/64	2-28/64	1-39/64	1.41
J293WRXL	5-40/64	1-1/4	7/8	0.39
J294WRXL	7-1/2	1-21/32	1-9/32	0.86

## STRAIGHT JAW LOCKING PLIERS

- › Heavy-duty nose.
- › Reinforced, precisely machined teeth.
- › Strong, tough tool.
- › Helps provide secure grip for extra tough jobs.
- › General purpose for various maintenance situations.
- › Locking nut to hold adjustment during repetitive jobs.

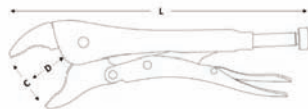


Product #	Overall Length (in) (L)	Jaw Capacity (in) (C)	Throat Depth (in) (D)	Weight (lbs)
J291XL	7-1/2	1-42/64	1-2/7	0.89
J293XL	9-24/64	2-31/64	1-42/64	1.45



## GROOVED GRIP LOCKING PLIERS

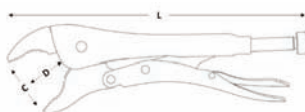
- › Tapered groove in mobile jaw.
- › Convex jaw.
- › Firm hold of cylindrical objects without lateral movement.
- › Clears small obstacles.
- › Ideal for holding and handling drill bits, taps, fasteners and tubes in general maintenance work.



Product #	Overall Length (in) (L)	Jaw Capacity (in) (C)	Throat Depth (in) (D)	Weight (lbs)
J282XL	9-24/64	2-28/64	1-45/64	1.36

## LONG NOSE LOCKING PLIERS

- › Long slim jaw design.
- › Curved section.
- › Pliers can reach deep into recessed areas.
- › Can hold rounded objects.
- › Great for holding, placing and extracting pieces in awkward areas, engines, etc.



Product #	Overall Length (in) (L)	Jaw Capacity (in) (C)	Throat Depth (in) (D)	Weight (lbs)
J289LNXL	9-1/8	2-43/64	2-9/16	0.93
J286LNXL	6-59/64	1-61/64	2	0.42

## LOCKING CHAIN PLIERS

- › Flexible heavy-duty, heat-treated chain which adjusts quickly around any shaped object even in awkward areas.
- › Use to remove oil filters or holding odd shapes for welding.
- › Replacement chain available - J262RC.



Product #	Overall Length (in) (L)	Max Chain Dia (in) (D)	Weight (lbs)
J262XL	9-54/64	6-19/64	1.98

## LOCKING CHAIN PIPE CUTTER PLUS

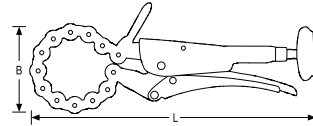
- › 15 alloy steel cutting wheels to evenly cut difficult-to-reach piping up to 1/4 / 6 mm wall thickness by hand ratcheting.
- › Locking mechanism- no squeezing, avoids risk of lateral movement and misaligned cutting.
- › Cuts through galvanized steel, some stainless steels, copper, PVC, and aluminum.
- › Problem solving and time saving, ideal for plumbing, heating, joinery and general maintenance.
- › Replacement chain available - J264RC.



Product #	Overall Length (in) (L)	Max Chain Dia (in) (D)	Weight (lbs)
J264XL	12-38/64	4-1/2	2.76

## LOCKING CHAIN PIPE CUTTER

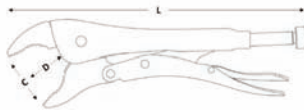
- ▶ 13 alloy steel cutting wheels to evenly cut difficult-to-reach thin wall pipes by hand ratcheting.
- ▶ Locking mechanism - no squeezing, avoids risk of lateral movement and misaligned cutting.
- ▶ Butterfly screw for easy feeding as cutting.
- ▶ Cuts through steel, copper, aluminum and some stainless steels.
- ▶ Great for exhaust pipe repair and removal.
- ▶ Use in plumbing and heating.
- ▶ Replacement chain available - J263RC.



Product #	Overall Length (in) (L)	Max Chain Dia (in) (D)	Weight (lbs)
J263XL	9-27/32	2-61/64	1.76

## LOCKING SHEET METAL TOOL

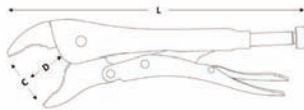
- ▶ Wide jaw profile to allow powerful grip on large thin surfaces.
- ▶ Clamps, forms, bends, and crimps sheet metal.



Product #	Overall Length (in) (L)	Jaw Capacity (in) (C)	Throat Depth (in) (D)	Weight (lbs)
J260XL	8	2-1/6	1-47/64	1.14

## LOCKING WELDING PLIERS

- ▶ Firmly holds two sections together. Hands free solution in general welding and body work.
- ▶ U-shaped jaw profile: Permits the clamping of adjacent joints and perfect visibility when welding.



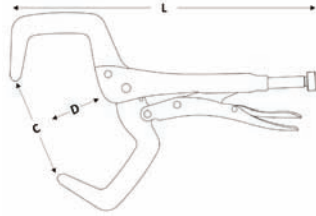
Product #	Overall Length (in) (L)	Jaw Capacity (in) (C)	Throat Depth (in) (D)	Weight (lbs)
J261XL	9	2-23/64	2-41/64	1.60





## LOCKING STEEL C-CLAMPS

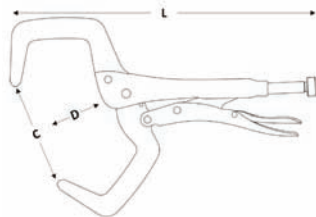
- Wide and deep jaw profile to help clear obstacles and firmly clamp sections which locking pliers can not.
- Clamp in close quarters for auto body work and welding shops.



Product #	Overall Length (in) (L)	Jaw Capacity (in) (C)	Throat Depth (in) (D)	Weight (lbs)
<b>J265XL</b>	6-47/64	2-23/64	1-61/64	0.50
<b>J266XL</b>	11-22/64	4-21/64	3-40/64	1.93
<b>J267XL</b>	18-1/2	10-15/64	10-15/64	3.14
<b>J268XL</b>	24-12/32	15-3/4	16-1/8	3.88

## LOCKING C-CLAMPS WITH SWIVEL PADS

- Knurled swivel pads - allow non-slip, no damage parallel clamping even on tapered surfaces.
- J269XL - small in size for delicate and fine work and ideal for electronics.
- Safely clamps delicate surfaces - wood, plastic and soft materials.



Product #	Overall Length (in) (L)	Jaw Capacity (in) (C)	Throat Depth (in) (D)	Weight (lbs)
<b>J269XL</b>	7	1-31/32	2-9/32	0.56
<b>J270XL</b>	11-55/64	3-30/32	3-35/64	2.10
<b>J271XL</b>	14-3/8	5-57/64	5-1/8	2.90
<b>J272XL</b>	18-1/2	9	9-13/32	3.43
<b>J273XL</b>	24-25/32	14-1/2	15-3/4	4.14

## 3 PIECE SAFETY WIRE TWISTER PLIERS SET

### Product #: J194

- › Contains three different twisters to cover almost any application.
- › Packed in handy, durable plastic storage case.



Contents	Description	Length (in)
J190	Pliers, Wire Twister Safety	8-3/8
J191	Pliers, Wire Twister Safety	10-3/8
J193	Pliers, Wire Twister Safety Deep Reach	18-1/8

Weight (lbs): 3.32



## 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.
- › J192 Ergonomically designed.



Product #	Wire Size (in)	Twist Direction	Overall Length (in)	Weight (lbs)
<b>J190</b>	0.020 - 0.041	Right	8-3/8	0.59
<b>J191</b>	0.020 - 0.060	Right	10-3/8	0.85
<b>J192</b>	0.020 - 0.060	Right	18-1/8	0.85
<b>J195</b>	0.020 - 0.060	Left	10-3/8	0.85

ASME B107.500



## SAFETY WIRE TWISTER REVERSIBLE & AUTOMATIC PLIERS

- › Reversible safety wire pliers provide right and left twist capability often eliminating the need for a second pliers.
- › Automatic spring return feature speeds operation and reduces fatigue.
- › Meet SAE Aerospace Standard AS 567 Twister Requirements.
- › Provides all of the features of standard Proto® Safety Wire Pliers.



Product #	Wire Size (in)	Overall Length (in) (L)	Weight (lbs)
<b>J196</b>	0.020 - 0.041	8-3/4	0.64
<b>J197</b>	0.020 - 0.060	11	0.88
<b>J198</b>	0.020 - 0.060	12-1/2	0.91



## SAFETY WIRE TWISTER - DEEP REACH

- › Designed for access into close clearance areas.

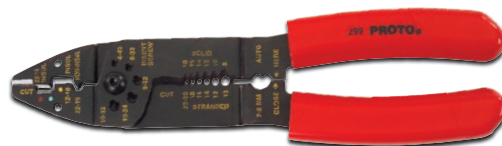
Product #	Overall Length (in)	Weight (lbs)
<b>J193</b>	18-1/8	0.43





## 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 7 mm and 8 mm 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 #	Overall Length (in)	Weight (lbs)
J299	8-1/2	0.45



## WIRE STRIPPER - CUTTER

- › Strips 10-30 AWG - American Wire Gauge.
- › Wire cutter.
- › Pliers nose for pulling and looping wire.
- › Spring return and convenient handle lock.
- › Plastisol grips for added comfort.



Product #	Overall Length (in)	Wire Sizes	Weight (lbs)
J297	6-1/16	10, 12, 14, 16, 18, and 20 AWG	0.21
J296	6-1/16	22, 24, 26, 28, and 30 AWG	0.21



## CABLE CUTTER

- › Cuts up to 3/0 fine strand copper battery cable (not for use on steel cable).
- › Precision-ground blades minimize deflection.
- › Plastisol grips for added comfort.



Product #	Overall Length (in)	Weight (lbs)
J288	7-1/2	0.56



## WIRE STRIPPER - PLIERS

- › Strips 10-22 AWG - American Wire Gauge.
- › Crimps insulated and non-insulated terminals for 10-22 AWG wire.
- › Crimps non-insulated 7 mm and 8 mm auto ignition wire.
- › Cuts screw/bolt sizes 4-40, 5-40, 6-32, 8-32, 10-32, 10-24 and copper wire.
- › Extended length curved cutter to handle heavier wire with less force.
- › Pliers nose designed to grip, bend, and pull wire.
- › Plastisol grips for added comfort.



Product #	Overall Length (in)	Weight (lbs)
J298	8-1/4	0.5



## STAINLESS STEEL ELECTRICIAN'S SCISSORS

- › Built with a complete internal stainless steel construction.
- › Blade consists of micro anti-slip teeth to help with the high leverage ratio.
- › Built-in wire stripper for AWG 12, 14 & 16.
- › Bi-material ergonomic handles with a hole for tethering.
- › Includes a holder with a belt clip.

Product #	Blade Length (in)	Overall Length (in)	Weight (lbs)
<b>J318SS</b>	2-3/64	6-7/64	0.33



## PINCH-OFF PLIERS

- › Patented clamping mechanism provides positive clamping without springs or adjustments.
- › Tested to 50,000 cycles without failure.
- › Heat-treated steel construction.
- › Swivel mounted clamps adjust to provide parallel clamping operation.
- › Cushioned hand grips.
- › For pinching-off flexible fuel lines, brake lines, and vacuum hoses in cars, motorcycles, and engines of all kinds.



Product #	Jaw Opening (in)	Jaw Width (in)	Jaw Depth (in)	Throat Depth (in)	Throat Height (in)	Max. Jaw Capacity (in)	Overall Length (in)	Weight (lbs)
<b>JFF554</b>	3/4	2	1/2	1-1/2	1/2	3/4	5-1/2	0.19
<b>JFF555</b>	2	2	1/2	1-1/2	1/2	1-1/4	9-1/4	0.78
<b>JFF556</b>	2-1/2	2	1/2	2-1/2	1/2	2-1/2	13-3/4	1.25



## RIGID-FLEXIBLE HOSE CLAMP PLIERS

- › Complete unique locking coolant system pliers set is ideal for one-person replacement of radiators, cooling lines, etc.
- › Locking waffle-nose hose clamp pliers to access/open hard to reach flat band hose clamps (7" and 9").
- › Locking hose pinch-off pliers to pinch and lock closed vent/radiator/vacuum/fuel hoses/lines (7" and 9").
- › Packaged in sturdy nylon roll pouch.

Product #	Overall Length (in)	Weight (lbs)
<b>JFFHC4</b>	12-19/64	3.50







## ADJUSTABLE OIL FILTER PLIERS

- ▶ Heavy-duty forged jaws with three contact points to grip stubborn oil filters.
- ▶ Textured grips for non-slip operation.



Product #	Opening Range (in)	Diameter Minimum (in)	Diameter Maximum (in)	Diameter Minimum (mm)	Diameter Maximum (mm)	Height (in)	Overall Length (in)	Weight (lbs)
<b>JFF297</b>	2-1/4 to 5	2-1/4	5	57	127	19/32	13-19/32	1.25
<b>JFF287</b>	3-3/4 to 7	3-3/4	7	94	178	1	19	3.28

## ALL-PURPOSE BRAKE PLIERS

- ▶ Easily installs and removes brake shoe retaining spring on drum brakes.
- ▶ Socket end removes spring from anchor stud.
- ▶ Notched and installs spring on anchor.



Product #	Overall Length (in)	Weight (lbs)
<b>J217</b>	12-7/8	1.05



## 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 #	Overall Length (in)	Weight (lbs)
<b>J2506</b>	9	0.49



## 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 #	Overall Length (in)	Weight (lbs)
<b>J2516</b>	10-9/16	0.68



## 9 PIECE CONVERTIBLE PUSH BUTTON RETAINING RING PLIERS SET

Product #: **J600A**

- › Patented push button release for fast conversion from internal to external configuration.
- › Precision-ground tips for better fit, retention, and safety.
- › Double-Chamber air cushion grip for comfortable hold.



Contents	Tip Size	Tip Angle	Length (in)	Shaft Dia. (in) (External)	Bore Dia. (in) (Internal)	Weight (lbs)
J600	0.038	0°	5-7/8	1/4 - 43/64	3/8 - 9/16	0.15
J601	0.038	45°	5-3/4	1/4 - 3/64	3/8 - 9/16	0.16
J602	0.038	90°	5-11/16	1/2 - 25/32	3/8 - 9/16	0.16
J603	0.047	0°	5-7/8	11/16 - 7/8	5/8 - 1	0.16
J604	0.047	45°	5-3/4	11/16 - 7/8	5/8 - 1	0.15
J605	0.047	90°	5-11/16	13/16 - 1	5/8 - 1	0.16
J606	0.070	0°	7-1/2	15/16 - 1-7/16	1-1/16 - 1-3/4	0.29
J607	0.070	45°	7-3/8	1 - 1-7/16	1-1/16 - 1-3/4	0.32
J608	0.070	90°	7-1/8	1-1/16, 2	1-7/16 - 2	0.31

Weight (lbs): 3.15



## 6 PIECE CONVERTIBLE PUSH BUTTON RETAINING RING PLIERS SET

Product #: **J600B**

- › Convenient blow-mold carrying case includes storage for spare rings.
- › Patented push button release for fast conversion from internal to external configuration.
- › Precision-ground tips for better fit, retention, and safety.
- › Double-Chamber air cushion grip for comfortable hold.



Contents	Tip Size	Tip Angle	Length (in)	Shaft Dia. (in) (External)	Bore Dia. (in) (Internal)	Weight (lbs)
J600	0.038	0°	5-7/8	1/4 - 43/64	3/8 - 9/16	0.15
J602	0.038	90°	5-11/16	1/2 - 25/32	3/8 - 9/16	0.16
J603	0.047	0°	5-7/8	11/16 - 7/8	5/8 - 1	0.16
J605	0.047	90°	5-11/16	13/16 - 1	5/8 - 1	0.16
J606	0.070	0°	7-1/2	15/16 - 1-7/16	1-1/16 - 1-3/4	0.29
J608	0.070	90°	7-1/8	1 - 1/16, 2	1-7/16 - 2	0.31

Weight (lbs): 2.48





## PUSH BUTTON CONVERTIBLE RETAINING RING PLIERS

- ▶ Patented push button release for fast conversion from internal to external configuration.
- ▶ Precision-Ground tips for better fit, retention, and safety.
- ▶ Double-Chamber air cushion grip for comfortable hold.



Product #	Tip Size	Tip Angle	Overall Length (in)	Shaft Dia. (in) (External)	Bore Dia. (in) (Internal)	Weight (lbs)
<b>J600</b>	0.038	0°	5-7/8	1/4 - 43/64	3/8 - 9/16	0.15
<b>J601</b>	0.038	45°	5-3/4	1/4 - 3/64	3/8 - 9/16	0.16
<b>J602</b>	0.038	90°	5-11/16	1/2 - 25/32	3/8 - 9/16	0.16
<b>J603</b>	0.047	0°	5-7/8	11/16 - 7/8	5/8 - 1	0.16
<b>J604</b>	0.047	45°	5-3/4	11/16 - 7/8	5/8 - 1	0.15
<b>J605</b>	0.047	90°	5-11/16	13/16 - 1	5/8 - 1	0.16
<b>J606</b>	0.070	0°	7-1/2	15/16 - 1-7/16	1-1/16 - 1-3/4	0.29
<b>J607</b>	0.070	45°	7-3/8	1 - 1-7/16	1-1/16 - 1-3/4	0.32
<b>J608</b>	0.070	90°	7-1/8	1-1/16, 2	1-7/16 - 2	0.31

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RETAINING RING PLIERS

## 12 PIECE CONVERTIBLE RETAINING RING PLIERS SET

**Product #: J360B**

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



Contents	Tip Size	Tip Angle	Length (in)	Shaft Dia. (in) (External)	Bore Dia. (in) (Internal)	Weight (lbs)
J399	0.038	0°	5-7/8	1/4 - 43/64	3/8 - 9/16	0.15
J370	0.038	45°	5-3/4	1/4 - 3/64	3/8 - 9/16	0.16
J371	0.038	90°	5-11/16	1/2 - 25/32	3/8 - 9/16	0.16
J372	0.047	0°	5-7/8	11/16 - 7/8	5/8 - 1	0.16
J373	0.047	45°	5-3/4	11/16 - 7/8	5/8 - 1	0.15
J374	0.047	90°	5-11/16	13/16 - 1	5/8 - 1	0.16
J385	0.070	0°	7-1/2	15/16 - 1-7/16	1-1/16 - 1-3/4	0.29
J375	0.070	45°	7-3/8	1 - 1-7/16	1-1/16 - 1-3/4	0.32
J376	0.070	90°	7-1/8	1 - 1/16, 2	1-7/16 - 2	0.31
J377	0.090	0°	9-1/4	1-1/2 - 3-1/2	1-13/16 - 3	0.54
J378	0.090	45°	9	1-1/2 - 3-1/2	1-13/16 - 3	0.55
J379	0.090	90°	8-5/8	1-1/2 - 1-3/4	1-13/16 - 3	0.56

Weight (lbs): 4.82

## 6 PIECE CONVERTIBLE RETAINING RING PLIERS SET

**Product #: J360A**

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



Contents	Tip Size	Tip Angle	Length (in)	Shaft Dia. (in) (External)	Bore Dia. (in) (Internal)	Weight (lbs)
J399	0.038	0°	5-7/8	1/4 - 43/64	3/8 - 9/16	0.15
J371	0.038	90°	5-11/16	1/2 - 25/32	3/8 - 9/16	0.16
J372	0.047	0°	5-7/8	11/16 - 7/8	5/8 - 1	0.16
J374	0.047	90°	5-11/16	13/16 - 1	5/8 - 1	0.16
J385	0.070	0°	7-1/2	15/16 - 1-7/16	1-1/16 - 1-3/4	0.29
J376	0.070	90°	7-1/8	1 - 1/16, 2	1-7/16 - 2	0.31

Weight (lbs): 2.10



## 18 PIECE RETAINING RING PLIERS SET WITH REPLACEABLE TIPS

**Product #: J361**

- › Includes one internal and one external pliers.
- › 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".

Tip Size	Tip Angle
0.108	0°
0.108	15°
0.108	45°
0.108	90°
0.120	0°
0.120	15°
0.120	45°
0.120	90°

Weight (lbs): 2.50



## 0.108 REPLACEMENT TIPS FOR J361

**Product #: J362**

- › 8 Tips.
- › 2 each of 0.108 Tips in 0°, 15°, 45°, 90°.
- › Weight (lbs): 0.22







## 0.120 REPLACEMENT TIPS FOR J361

**Product #: J363**

- › 8 Tips.
- › 2 each of 0.120 Tips in 0°, 15°, 45°, 90°.
- › Weight (lbs): 0.23



## 4 PIECE CONVERTIBLE RETAINING RING PLIERS SET

**Product #: J360C**

- › 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".



Contents	Tip Size	Tip Angle	Length (in)	Shaft Dia. (in) (External)	Bore Dia. (in) (Internal)	Weight (lbs)
J399L	0.038	18°	6	1/4 - 43/64	3/8 - 9/16	0.19
J371L	0.038	90°	6	1/2 - 25/32	3/8 - 9/16	0.19
J385L	0.070	18°	7-1/4	15/16 - 17/16	1-1/16 - 1-3/4	0.33
J376L	0.070	90°	7-1/4	1-1/16 - 2	1-7/16 - 2	0.33

Weight (lbs): 1.26



## 18 PIECE SMALL PLIERS SET WITH REPLACEABLE TIPS

**Product #: J380**

- › Includes one internal and one external pliers.
- › 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".

Tip Size	Tip Angle
0.038	90°
0.047	45°
0.047	0°
0.070	0°

Weight (lbs): 0.64



## REPLACEMENT TIPS FOR J380

**Product #: J380T**

- › 16 Tips.
- › 4 each of: 0.038 90°, 0.047 45°, 0.047 0°, 0.070 0°.
- › Plastic storage case.
- › Weight (lbs): 0.05



## 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 #	Tip Size	Tip Angle	Overall Length (in)	Shaft Dia. (in) (External)	Bore Dia. (in) (Internal)	Weight (lbs)
J399	0.038	0°	5-7/8	1/4 - 43/64	3/8 - 9/16	0.15
J370	0.038	45°	5-3/4	1/4 - 3/64	3/8 - 9/16	0.16
J371	0.038	90°	5-11/16	1/2 - 25/32	3/8 - 9/16	0.16
J372	0.047	0°	5-7/8	11/16 - 7/8	5/8 - 1	0.16
J373	0.047	45°	5-3/4	11/16 - 7/8	5/8 - 1	0.15
J374	0.047	90°	5-11/16	13/16 - 1	5/8 - 1	0.16
J385	0.070	0°	7-1/2	15/16 - 1-7/16	1-1/16 - 1-3/4	0.29
J375	0.070	45°	7-3/8	1 - 1-7/16	1-1/16 - 1-3/4	0.32
J376	0.070	90°	7-1/8	1 - 1/16, 2	1-7/16 - 2	0.31
J377	0.090	0°	9-1/4	1-1/2 - 3-1/2	1-13/16 - 3	0.54
J378	0.090	45°	9	1-1/2 - 3-1/2	1-13/16 - 3	0.55
J379	0.090	90°	8-5/8	1-1/2 - 1-3/4	1-13/16 - 3	0.56
J399L	0.038	18°	6	-	3/8 - 9/16	0.19
J371L	0.038	90°	6	-	3/8 - 9/16	0.19
J385L	0.070	18°	7-1/4	-	1-1/16 - 1-3/4	0.33
J376L	0.070	90°	7-1/4	-	1-7/16 - 2	0.33

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## RETAINING RING PLIERS - EXTERNAL

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



Product #	Tip Size	Tip Angle	Overall Length (in)	Shaft Dia. (in) (External)	Weight (lbs)
J388*	0.023	0°	5-1/4	3/16 - 15/64	0.06
J391	0.038	0°	6-1/8	1/4 - 21/32	0.15
J397	0.038	90°	6-1/8	1/4 - 1	0.15
J393	0.070	0°	6-7/8	7/16 - 2	0.22
J395	0.115	0°	9-1/8	1-1/2 - 3-1/2	0.49

\*No Grip. Applies only to J388.

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## RETAINING RING PLIERS - INTERNAL

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



Product #	Tip Size	Tip Angle	Overall Length (in)	Bore Dia. (in) (Internal)	Weight (lbs)
<b>J390</b>	0.025	0°	5-3/8	1/4 - 5/16, 1/4 - 5/16, 1/4 - 5/16, 5/8	0.14
<b>J389</b>	0.038	0°	5-3/8	3/8 - 9/16	0.13
<b>J398</b>	0.038	45°	5-3/8	3/8 - 9/16, 3/8 - 9/16, 3/4 - 1	0.13
<b>J392</b>	0.070	0°	6-1/2	1-1/16 - 1-3/4, 1-1/16 - 1-3/4, 1-1/16 - 1-3/4, 1-7/16 - 2	0.19
<b>J394</b>	0.090	0°	9	1-13/16 - 3, 1-13/16 - 3, 1-13/16 - 3, 2-1/16 - 3	0.47

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## 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 #	Tip Size	Tip Angle	Overall Length (in)	Shaft Dia. (in) (External)	Bore Dia. (in) (Internal)	Weight (lbs)
<b>J364</b>	0.120	0°	16-1/2	–	3-1/16 - 6	1.95
<b>J365</b>	0.120	0°	16-1/2	3-1/2 - 6-1/2	–	1.98

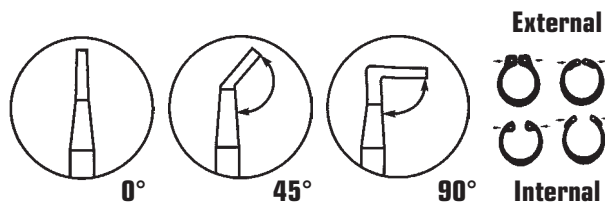
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## REPLACEMENT TIPS FOR J364 & J365

Product #	Tip Angle	Weight (lbs)
<b>J364-T0</b>	0°	0.12
<b>J364-T45</b>	45°	0.12
<b>J364-T90</b>	90°	0.12



### Tip Angles



## FACOM® VE PLIERS

- › Designed for working on live components up to 1000V AC and 1500V DC.
- › 1000V insulated grips designed for electrical safety when working on or near live components.
- › Handles designed to resist workshop chemicals (Skydrol®, chlorothene, acetone, petrol).

## FACOM® 3 PIECE VE PLIERS SET



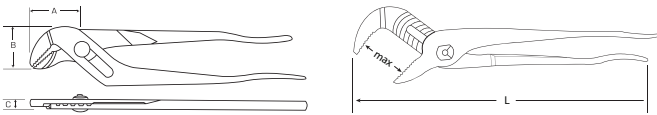
Product #: MOD.VEAO



Contents	Description
180.VE	Pliers, Multigrip Insulated 1000VE 10"
194A.17VE	Pliers, Wire Stripper Insulated 1000VE 6-1/2"
391A.16VE	Pliers, Diagonal Cutting Insulated 1000VE 6-1/2"

Weight (lbs): 1.66

## FACOM® INSULATED VE MULTIGRIP PLIERS

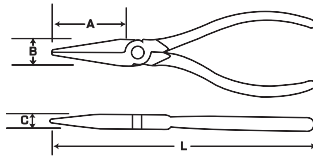


Product #	Overall Length (in) (L)	Max Capacity (in)	Jaw Length (in) (A)	Jaw Width (in) (B)	Weight (lbs)
<b>180.VE</b>	10	1-9/16	1-3/16	7/8	0.78

## FACOM® INSULATED VE HALF ROUND PLIERS



- › Side cutter for steel wire up to 14 AWG.
- › Serrated jaws with central area for handling rods.
- › Broad handle provides more comfort and improvement in user force.



Product #	Overall Length (in) (L)	Jaw Length (in) (A)	Jaw Width (in) (B)	Weight (lbs)
<b>185A.20VE</b>	7-7/8	2-15/16	11/32	0.45
<b>193A.16VE</b>	6-7/8	1-13/16	11/32	0.41

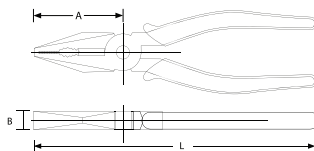




## FACOM® INSULATED VE COMBINATION PLIERS



- › High-frequency hardened cutting edges for power and durability.
- › Nose profile combines strength and maneuverability.
- › Broad handle provides more comfort and improvement in user force.



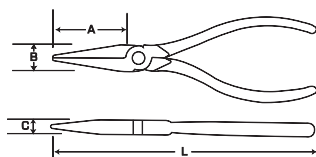
Product #	Overall Length (in) (L)	Jaw Length (in) (A)	Jaw Width (in) (B)	Weight (lbs)
<b>187A.16VE</b>	6-1/2	1-11/32	3/8	0.43
<b>187A.18VE</b>	7-9/32	1-13/32	13/32	0.53

1000V PLIERS

## FACOM® INSULATED VE FLAT NOSE PLIERS



- › Serrated jaws for firm grip.
- › Nose designed for confined spaces.

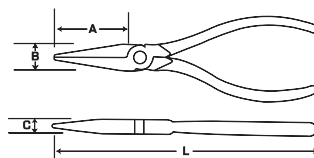


Product #	Overall Length (in) (L)	Jaw Length (in) (A)	Jaw Width (in) (B)	Weight (lbs)
<b>188A.16VE</b>	6-11/16	1-13/16	11/32	0.38
<b>188A.20VE</b>	8-1/16	2-15/16	11/32	0.42

## FACOM® INSULATED VE WIRE STRIPPER PLIERS



- › Jaws angled at 40°.
- › Cuts single and multi-cone wire up to 14 AWG.
- › Serrated jaws with central area for handling rods.

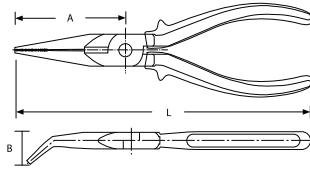


Product #	Overall Length (in) (L)	Jaw Length (in) (A)	Jaw Width (in) (B)	Weight (lbs)
<b>194A.17VE</b>	7-11/16	1	5/8	0.38

## FACOM® INSULATED VE BENT NOSE PLIERS



- › Jaws angled at 40°.
- › Cuts single and multi-cone wire up to 14 AWG.
- › Serrated jaws with central area for handling rods.
- › Broad handle provides more comfort and improvement in user force.

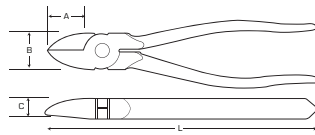


Product #	Overall Length (in) (L)	Jaw Length (in) (A)	Jaw Width (in) (B)	Weight (lbs)
<b>195A.16VE</b>	6-7/8	1-5/8	11/32	0.39
<b>195A.20VE</b>	7-15/32	2-3/4	11/32	0.43

## FACOM® INSULATED VE DIAGONAL PLIERS



- › High-frequency hardened cutting edges ensure durable cut quality for hard wire up to 200 kg/mm.
- › Offset pivot for reduced cutting effort.

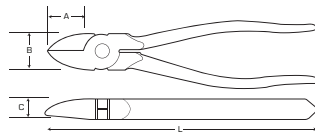


Product #	Overall Length (in) (L)	Jaw Length (in) (A)	Jaw Width (in) (B)	Weight (lbs)
<b>192A.16VE</b>	6-7/8	23/32	13/32	0.46
<b>192A.18VE</b>	7-15/32	25/32	7/16	0.57

## FACOM® INSULATED VE DIAGONAL CUTTERS



- › 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.



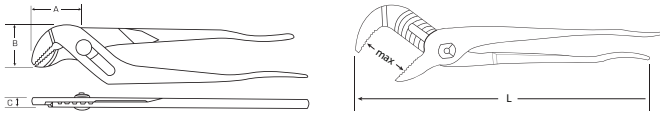
Product #	Overall Length (in) (L)	Jaw Length (in) (A)	Jaw Width (in) (B)	Weight (lbs)
<b>391A.16VE</b>	6-11/16	3/4	13/32	0.46



## FACOM® VSE PLIERS

- › 1000V insulated grips designed for electrical safety when working on or near live components.
- › 2 color warning handle insulation - color changes from orange to yellow if insulation integrity compromised.
- › Insulated to 1000V AC or 1500 DC.
- › Burnished nose.
- › Hardened throughout for overall strength.
- › Cutting edges locally heat-treated to exceed 60 HRc hardness.

## FACOM® INSULATED VSE MULTIGRIP PLIERS

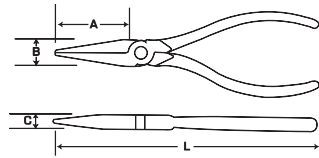


Product #	Overall Length (in) (L)	Jaw Length (in) (A)	Jaw Width (in) (B)	Weight (lbs)
<b>180.VSE</b>	10-1/32	1-9/16	1-3/8	0.81

## FACOM® INSULATED VSE HALF ROUND PLIERS



- › Integrated wire-cutter.

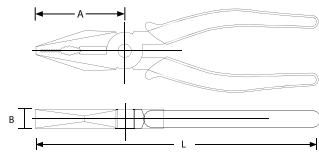


Product #	Overall Length (in) (L)	Jaw Length (in) (A)	Jaw Width (in) (B)	Weight (lbs)
<b>185.20AVSE</b>	8-9/32	2-23/32	1-3/8	0.53
<b>193.16AVSE</b>	6-7/8	1-31/32	1-1/4	0.37

## FACOM® INSULATED VSE COMBINATION PLIERS



- › Serrated jaw.

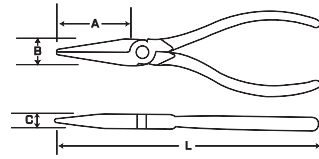


Product #	Overall Length (in) (L)	Jaw Length (in) (A)	Jaw Width (in) (B)	Weight (lbs)
<b>187.16AVSE</b>	6-1/2	1-11/32	1-3/8	0.44
<b>187.18AVSE</b>	7-3/32	1-3/8	1-3/8	0.54
<b>187.20AVSE</b>	7-9/32	1-43/64	1-3/8	0.69

## FACOM® INSULATED VSE FLAT NOSE PLIERS



- › Serrated jaws for firm grip.

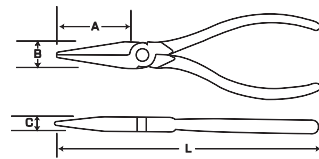


Product #	Overall Length (in) (L)	Jaw Length (in) (A)	Jaw Width (in) (B)	Weight (lbs)
<b>188.16AVSE</b>	6-11/16	1-31/32	1-15/32	0.37

## FACOM® INSULATED VSE ROUND NOSE PLIERS



- › Long tip nose, serrated for shaping bends or terminals on all types of wire.

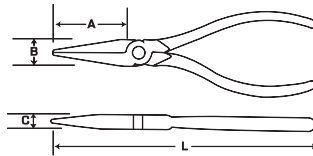


Product #	Overall Length (in) (L)	Jaw Length (in) (A)	Jaw Width (in) (B)	Weight (lbs)
<b>189.17AVSE</b>	6-7/8	1-25/32	1-5/16	0.36

## FACOM® INSULATED VSE WIRE STRIPPER



- › Strips any wire in all common electrical systems, up to 10 AWG.
- › Knob for presetting the cutting depth.

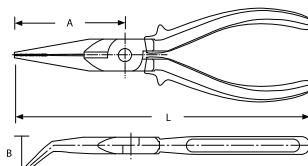


Product #	Overall Length (in) (L)	Jaw Length (in) (A)	Jaw Width (in) (B)	Weight (lbs)
<b>194.17AVSE</b>	6-7/8	7/8	5/16	0.45

## FACOM® INSULATED VSE BENT NOSE PLIERS



- › Integral wire-cutter.



Product #	Overall Length (in) (L)	Jaw Length (in) (A)	Jaw Width (in) (B)	Weight (lbs)
<b>195.20AVSE</b>	7-15/32	2-17/32	1-1/4	0.43

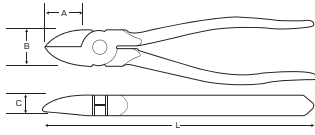




## FACOM® INSULATED VSE CABLE CUTTERS



- ▶ High performance compact tool.
- ▶ Forged safety stops.

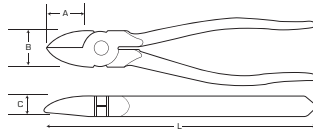


Product #	Overall Length (in) (L)	Jaw Length (in) (A)	Jaw Width (in) (B)	Weight (lbs)
<b>412.10AVSE</b>	7-7/8	3-1/3	1-3/8	0.91
<b>412.14AVSE</b>	9	1-3/16	1-3/8	1.12
<b>412.150AVSE</b>	18-1/2	2-23/64	1-3/4	4.71

## FACOM® INSULATED VSE RATCHETING CABLE CUTTERS

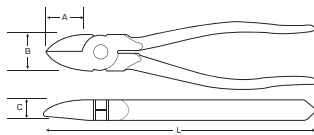


- ▶ One-hand operation.
- ▶ No cable core distortion.
- ▶ Forged and hardened steel blade.



Product #	Size (in)	Overall Length (in) (L)	Jaw Width (in) (B)	Weight (lbs)
<b>414.45AVSE</b>	1-3/4	12	5-5/16	2.19
<b>414.52AVSE</b>	2	13-3/16	5-1/2	2.26

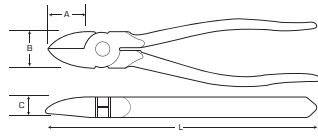
## FACOM® INSULATED VSE END CUTTER PLIERS



Product #	Overall Length (in) (L)	Jaw Length (in) (A)	Jaw Width (in) (B)	Weight (lbs)
<b>190.16AVSE</b>	6-11/16	1/4	1-3/8	0.56

1000V PLIERS

## FACOM® INSULATED VSE DIAGONAL PLIERS

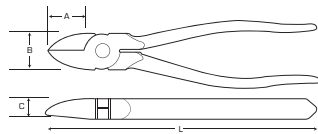


Product #	Overall Length (in) (L)	Jaw Length (in) (A)	Jaw Width (in) (B)	Weight (lbs)
<b>192.14AVSE</b>	6-3/32	5/8	1-3/16	0.48
<b>192.16AVSE</b>	6-1/2	23/32	13/32	0.54
<b>192.18AVSE</b>	7-9/32	25/32	7/16	0.60

## FACOM® INSULATED VSE DIAGONAL CUTTERS



- › Inset joint.



Product #	Overall Length (in) (L)	Jaw Length (in) (A)	Jaw Width (in) (B)	Weight (lbs)
<b>391.16AVSE</b>	6-5/16	3/4	13/32	0.47

## FACOM® INSULATED VSE KNIFE



- › Thick, angled blade with flat tip.
- › Cushion handle.
- › Blade sheath.
- › Effective blade length 2".

Product #	Blade Length (in)	Overall Length (in)	Weight (lbs)
<b>1820.AVSE</b>	2-3/8	7-1/2	0.19



## FACOM® INSULATED VSE HACKSAW



- › Two blade positions.
- › Butterfly tension nut.
- › Supplied with bi-metal blade.
- › 12" blade replacement.

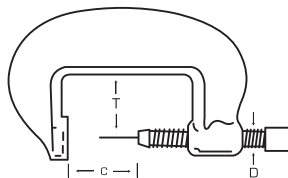
Product #	Blade Length (in)	Overall Length (in)	Weight (lbs)
<b>602.AVSE</b>	12	18-1/2	1.30





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

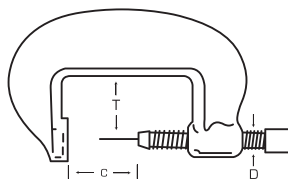
- Standard service, deep throat style is the most versatile and popular.
- Hot forged for strength and durability.
- Forcing screw with sliding T-handle and impact resistant pad.



Product #	Opening Range (in) (C)	Throat Depth (in) (T)	Thread Diameter (in) (D)	Minimum Test Load (lbs)	Weight (lbs)
J402A	0-2	2	1/2	3,500	1.30
J403A	0-3	2-3/8	1/2	3,500	2.00
J404A	0-4	2-3/4	3/4	6,500	3.50
J406A	0-6	3-5/8	3/4	6,600	5.00
J408A	0-8	4-1/2	3/4	6,900	7.00
J410A	0-10	5-3/8	3/4	8,000	10.50
J412A	0-12	5-3/4	7/8	9,500	15.50

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

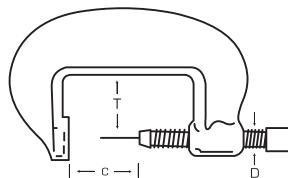
- Forcing screw and pad are plated with copper to resist welding spatter.
- Hot forged for strength and durability.
- Forcing screw with sliding T-handle and impact resistant pad.



Product #	Opening Range (in) (C)	Throat Depth (in) (T)	Thread Diameter (in) (D)	Minimum Test Load (lbs)	Weight (lbs)
J402SA	0-2	2	1/2	3,300	1.20
J404SA	0-4	2-3/4	3/4	4,100	3.50
J406SA	0-6	3-5/8	3/4	5,400	5.00
J408SA	0-8	4-1/2	3/4	5,900	7.00
J410SA	0-10	5-3/8	3/4	8,000	10.50
J412SA	0-12	5-3/4	7/8	9,500	15.50

## 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 durability.
- Forcing screw has heavy rolled Acme thread.
- Full length forcing screw.

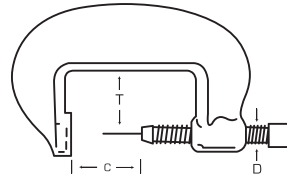


Product #	Opening Range (in) (C)	Throat Depth (in) (T)	Thread Diameter (in) (D)	Minimum Test Load (lbs)	Weight (lbs)
J426SA	0-6	4-3/4	3/4	5,400	7.00

Discontinued August 2019

## 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 for turning with a wrench.
- › Forcing screws have a hardened tip.



Product #	Opening Range (in) (C)	Throat Depth (in) (T)	Thread Diameter (in) (D)	Minimum Test Load (lbs)	Weight (lbs)
<b>J2-HDLA</b>	0 - 2-3/8	1-7/8	3/4	12,500	4.50
<b>J3-HDLA</b>	0 - 3-5/16	2-5/16	7/8	16,250	7.10
<b>J6-HDLA</b>	0 - 6-5/8	3-3/8	1-1/8	27,500	19.30

Discontinued August 2019



## C-CLAMP FORCING SCREWS

- › Full length for greater versatility with the minimum capacity always being "0".
- › Heavy-duty threaded hub provides maximum screw support.
- › Square head for turning with a wrench.
- › Hardened tip.



Product #	Thread Diameter (in)	Overall Length (in)	Weight (lbs)
<b>J2P2-HD</b>	3/4	5-1/8	0.53
<b>J3P2-HD</b>	7/8	6-7/8	0.99
<b>J6P2-HD</b>	1-1/8	11-1/2	2.67
<b>J10P2-HD</b>	1-1/4	15-3/4	4.58
<b>J11/2P1-HD</b>	5/8	4	0.30

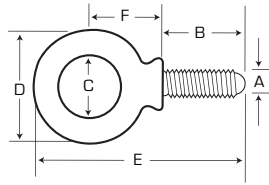
Discontinued August 2019







## FORGED EYE BOLTS



Product #	Thread Size (in) (A)	Shank Length (in) (B)	Eye Inner Dia. (in) (C)	Eye Outside Dia. (in) (D)	Overall Length (in) (E)	Center Eye to Shoulder (in) (F)	Rated Capacity (lbs)	Weight (lbs)
J94020	1/4 - 20	1.00	.69 - .81	1.19	2-9/41 - 2-9/17	.69 - .81	500	0.05
J94021	5/16 - 18	1.12	.81 - .94	1.44	2-33/50 - 2-32/33	.88 - 1.00	900	0.10
J94022	3/8 - 16	1.25	.94 - 1.06	1.69	3-1/11 - 3-8/17	1.06 - 1.09	1,300	0.16
J94023	7/16 - 14	1.38	1.00 - 1.12	1.81	3-16/39 - 3-32/41	1.19 - 1.31	1,800	0.24
J94024	1/2 - 13	1.50	1.12 - 1.25	2.12	3-17/21 - 4-4/21	1.31 - 1.44	2,400	0.35
J94025	9/16 - 12	1.75	1.31 - 1.44	2.56	4-14/25 - 4-47/50	1.59 - 1.72	3,200	0.47
J94026	5/8 - 11	1.75	1.31 - 1.44	2.56	4-14/25 - 4-47/50	1.59 - 1.72	4,000	1.00
J94027	3/4 - 10	2.00	1.44 - 1.56	2.81	5 - 5-1/2	1.72 - 1.91	5,000	1.00
J94028	7/8 - 9	2.25	1.56 - 1.69	3.19	5-3/4 - 6-4/21	2.03 - 2.22	7,000	1.63
J94029	1 - 8	2.50	1.69 - 1.81	3.56	6 - 6-22/25	2.22 - 2.41	9,000	2.22
J94030	1-1/8 - 7	2.75	1.94 - 2.06	4.06	7-11/25 - 7-3/4	2.59 - 2.78	12,000	3.40
J94031	1-1/4 - 7	3.00	2.12 - 2.25	4.44	8-9/17 - 8-11/25	3.03 - 2.84	15,000	4.44
J94032	1-1/2 - 6	3.50	2.44 - 2.56	5.19	9-9/41 - 9-18/25	3.19 - 3.44	21,000	7.36
J94033	1-3/4 - 5	3.75	2.75 - 3.00	6.00	10-1/2 - 11-3/25	3.88 - 4.12	28,000	11.35

B18.15

## 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 #	Cuts	Handle Color	Blade Length (in)	Overall Length (in)	Weight (lbs)
J303L	Left	Red	1-3/8	10	0.94
J303R	Right	Green	1-3/8	10	0.94
J303S	Straight	Yellow	1-3/8	10	0.94

ASME 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 #	Cuts	Handle Color	Blade Length (in)	Overall Length (in)	Weight (lbs)
J303LS	Left	Red	1-1/4	10	1.00
J303RS	Right	Green	1-1/4	10	1.00

ASME B107.16M

## CIRCULAR CUTTING DUCKBILL SNIPS

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

Product #	Blade Length (in)	Overall Length (in)	Weight (lbs)
<b>J307</b>	1-1/2	7	0.45
<b>J310</b>	2	10	0.95
<b>J312</b>	2-3/4	12-3/4	1.61



## 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 #	Description	Blade Length (in)	Overall Length (in)	Weight (lbs)
<b>J334</b>	Combination Snips	3-7/8	14	3.02
<b>J336</b>	Bulldog Tinner Snips	2-1/2	16	3.63

ASME B107.16M



## STRAIGHT CUTTING SNIPS

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

Product #	Blade Length (in)	Overall Length (in)	Weight (lbs)
<b>J317</b>	1-1/2	7	0.48
<b>J320</b>	2	10	0.93
<b>J322</b>	2-3/4	12-3/4	1.64





## MINIATURE SNIPS

- › Improved shearing action.
- › Increased length of cut from 1-1/8" to 2".
- › Increased jaw opening.
- › Serrated bottom blade to grip material.
- › Ergonomic handle design.
- › Cuts up to 26 gauge cold-roll sheet metal.
- › Copper wire up to 18 AWG.
- › Soft steel wire up to 22 AWG.



Product #	Blade Length (in)	1.0276 in	Weight (lbs)
<b>J308</b>	1-1/8	6-1/2	0.33



## MULTI-PURPOSE TOOL - NEEDLE NOSE

- › 15 functions including pliers with wire cutter, cross cut saw, taper grind blade, sheepfoot blade, can & bottle opener, ruler, and screwdriver bits provide versatility.
- › Locking handle securely positions and safely locks each blade or implement for safety.
- › Stainless steel construction for heavy-duty use and long life.
- › Nylon belt pouch for convenient storage.
- › Wide handle design for added comfort.



Product #	Overall Length (in)	Weight (lbs)
<b>J18576</b>	6	0.65



## MULTI-PURPOSE TOOL - BLUNT NOSE

- › 15 functions including pliers with wire cutter, cross cut saw, taper grind blade, sheepfoot blade, can & bottle opener, ruler, and screwdriver bits provide versatility.
- › Locking handle securely positions and safely locks each blade or implement for safety.
- › Stainless steel construction for heavy-duty use and long life.
- › Nylon belt pouch for convenient storage.
- › Wide handle design for added comfort.



Product #	Overall Length (in)	Weight (lbs)
<b>J18575</b>	5-5/8	0.56



## LOCKBACK KNIVES

- › 420 grade high carbon stainless steel blade.
- › Hardwood handle with heavy-duty lock springs.
- › Solid one piece brass bolster and liner provide additional strength.
- › Blade locks in open position to guard against accidental closing.
- › J18545 includes a leather sheath.



Product #	Blade Length (in)	Closed Position Length (in)	Open Position Length (in)	Weight (lbs)
J18543	2-1/4	3	5-1/4	0.16
J18545	3-3/4	4-7/8	8-3/4	0.57
J18545B	3-3/4	4-7/8	8-3/4	0.57



## ELECTRICIAN'S KNIFE WITH STRIPPING BLADE

- › Spear blade.
- › Self-locking combination screwdriver, insulation cutter and wire scraper blade.



Product #	Stripping Blade	Blade Length (in)	Closed Position Length (in)	Open Position Length (in)	Weight (lbs)
J18535	Yes	3	3-3/4	7	0.32
J18500	No	3	3-3/4	7	0.24



## PRUNING KNIFE

- › Curved blade for precision cutting and stripping.



Product #	Blade Length (in)	Closed Position Length (in)	Open Position Length (in)	Weight (lbs)
J18505	4	4-3/4	9	0.26

