



STANLEY  
**PROTO**

# HOLDING AND CUTTING

# 10

PLIERS

LOCKING PLIERS

RETAINING PLIERS

SPECIALTY PLIERS

C-CLAMPS

KNIVES



# HOLDING AND CUTTING

# 10

## PLIERS

Proto offers a broad range of professional pliers: Tongue & Groove, Slip Joint, Cutting, Holding, Locking, Retaining Ring, Electronic and other specialty styles. All pliers are manufactured from high quality alloy steel and heat treated for maximum strength and durability.

## POWER-TRACK II™ TONGUE & GROOVE PLIERS

- Proto offers a wide range of tongue & 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 plier 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, with sharp durable teeth.
- Thin tapered jaws provide access for use in tight areas.
- Jaws are set at 45° from handle line for better access in tight areas and a comfortable, natural twist angle.
- Special fasteners ensures permanent assembly, yet allows 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.

## C-CLAMPS

C-Clamps are holding tools that free the users 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 there rated capacities.

## PROTO C-CLAMP FEATURES

- Frames hot forged from special alloy steel and heat-treated for maximum strength and toughness.
- Large machined anvil on frame to insure a flat contact are 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 longer life and greater 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 Service Extra Deep Throat C-Clamps to meet your industrial clamping needs.

## EYE BOLTS

- Size, traceability markings, 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.

## PLIER SAFETY

- 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 cheater bars on plier handles.
- Shield yourself and bystanders when using retaining ring pliers. Flying objects possible.
- Instructions:
  - Cut wire back in jaws. Not at tip.
  - Prevent exposure to excessive heat.

## C-CLAMP SAFETY

- Use safety goggles. Serious eye injury is possible.
- Do not use a damaged c-clamp. Replace bent screws and missing pressure pads
- Do no use c-clamp to pull or lift
- Disconnect electricity when working on electrical parts.
- Instructions:
  - Apply clamping force perpendicular.
  - Engage pressure pad and anvil fully.
  - Prevent slipping. Keep tools clean.
  - Maintain your balance.





## POWER-TRACK II™—NATURAL FINISH

- 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.



Product ID No.	L	MAX.	A	B	C	Weight lbs.	
261SG	4-5/8"	15/32"	7/8"	13/16"	3/16"	.15	Forged Undercut
262SG	7-1/16"	1-1/8"	1-3/8"	1-3/4"	5/16"	.48	Meets ergonomic criteria
263SG	9-9/16"	1-1/2"	1-5/8"	2-1/16"	5/16"	.88	
260SG	10-3/16"	2-1/8"	1-15/16"	2-3/4"	13/32"	1.00	
264SG	12"	2-5/8"	2-1/4"	2-3/4"	3/8"	1.81	
265SG	16-7/8"	4-1/16"	3-3/8"	4-1/8"	17/32"	3.50	

Fed'l Specs.: GGG-P-471E



## 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.
235	4-1/16"	3/4"	5/8"	11/64"	.10



## 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.
202G	6-11/16"	1-15/16"	1-1/16"	3/16"	.47

Fed'l Specs.: GGG-P-471E



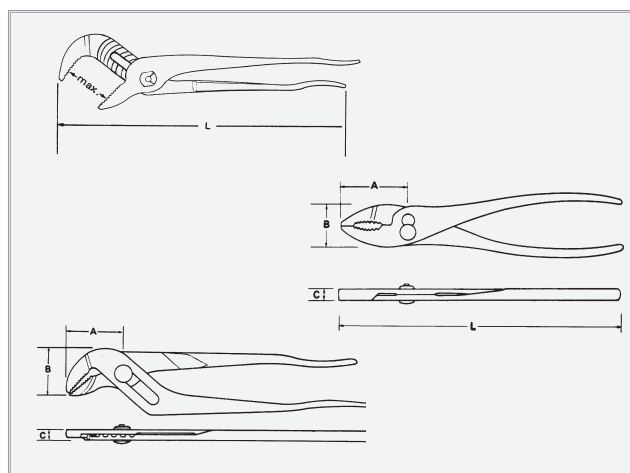
## COMBINATION PLIERS

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

Product ID No.	L	A	B	C	Weight lbs.	
275G	5-13/16"	1-5/16"	7/8"	9/32"	.24	Plastisol Dipped Handles
276	6-1/2"	1-3/4"	1-3/16"	3/8"	.52	
276G	6-9/16"	1-3/4"	1-3/16"	3/8"	.52	Plastisol Dipped Handles
278	8"	1-3/4"	1-13/64"	3/8"	.67	
278G	8-1/16"	1-3/4"	1-13/64"	3/8"	.67	Plastisol Dipped Handles
280	9-1/2"	2-3/8"	1-7/64"	15/32"	1.00	
280G	9-9/16"	2-3/8"	1-7/16"	15/32"	1.00	Plastisol Dipped Handles

Fed'l Specs.: GGG-P-471E

## REFERENCE MEASUREMENT KEY





**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.	
285G	4-5/8"	13/32"	7/16"	1/4"	.13	
204G	4-7/16"	18/32"	9/16"	5/16"	.22	
204SG	4-7/16"	18/32"	9/16"	5/16"	.22	Coil Springs
205G	5-1/16"	3/4"	19/32"	3/8"	.24	
206G	6-1/16"	13/16"	3/4"	7/16"	.40	
207G	7-5/16"	1"	7/8"	15/32"	.50	Meets Ergonomic criteria

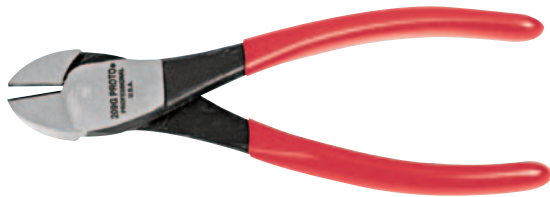
Fed'l Specs.: GGG-P-468A  
ANSI Spec.: B107.11M



**DIAGONAL CUTTING PLIERS—ANGLED HEAD**

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

Product ID No.	L	A	B	C	Weight lbs.
210AHG	8-1/8"	3/4"	1-7/32"	5/32"	.64



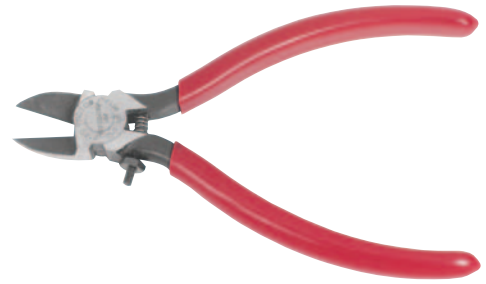
**DIAGONAL CUTTING PLIERS—HEAVY-DUTY**

- 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.	
209G	7-5/16"	2-5/32"	7/8"	1/2"	.58	Meets Ergonomic criteria
210G	8-1/2"	3/4"	1-7/32"	15/32"	.64	

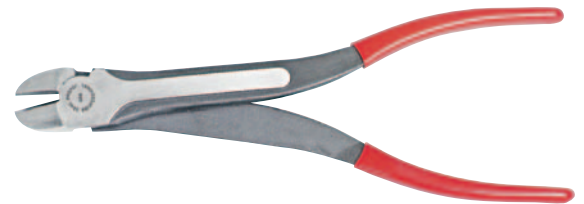
Fed'l Specs.: GGG-P-468A  
ANSI Spec.: B107.11



**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.
212G	6-1/16"	3/4"	3/4"	7/16"	.39
213G	7-5/16"	1"	29/32"	1/2"	.53



**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.
244G	11-1/8"	1"	63/64"	1-5/32"	.94

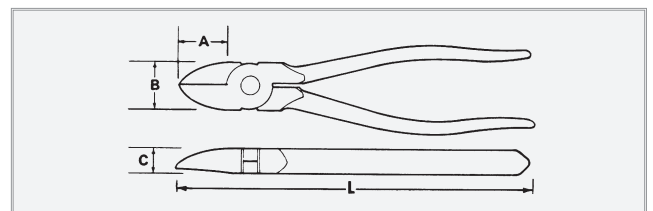


**DIAGONAL CUTTING PLIERS  
LONG REACH—GRIPPING TIP**

- 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.
246G	11-1/8"	27/32"	63/64"	25/64"	.74

**REFERENCE MEASUREMENT KEY**





## 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.
268G	8-5/8"	1-1/2"	1-3/16"	5/8"	.98

Fed'l Specs.: GGG-W-471E

ANSI Spec.: B107.20M



## 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.
266G	6-3/16"	1-3/32"	29/32"	1/2"	.50
267G	7-1/4"	1-9/32"	1-1/8"	1/2"	.67

Fed'l Specs.: GGG-W-471E

ANSI Spec.: B107.20M



## 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.
269G	9-1/4"	1-3/16"	1-3/32"	5/8"	1.10

Fed'l Specs.: GGG-W-471E

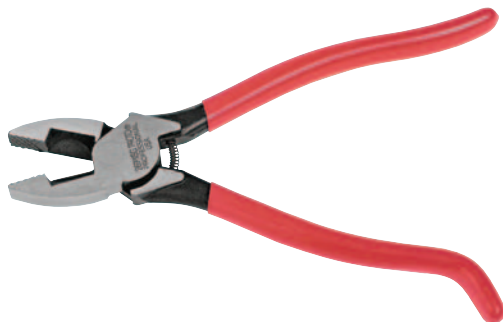
ANSI Spec.: B107.20M



## LINEMAN'S PLIERS—PIPE JAW

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

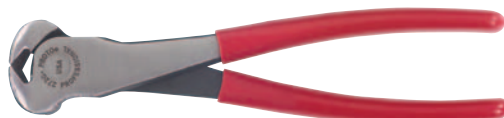
Product ID No.	L	A	B	C	Weight lbs.
268PJG	8-3/8"	1-3/4"	1-1/16"	17/32"	.87



## 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.
269WSG	9-1/4"	1-9/16"	1-9/32"	5/8"	1.16



## END CUTTING PLIERS—HIGH LEVERAGE

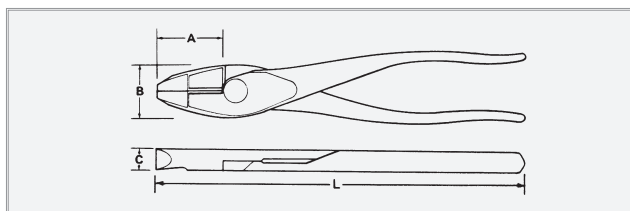
- Semi-flush cutting in areas inaccessible to side cutting pliers.
- High leverage for easy cutting of most wires and nails.
- Plastisol grips for added comfort.

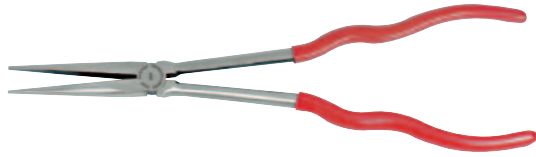
Product ID No.	L	A	B	C	Weight lbs.
272G	8-1/4"	5/16"	1-3/4"	1-3/16"	.90

Fed'l Specs.: GGG-N-350A

ANSI Spec.: B107.11M

## REFERENCE MEASUREMENT KEY





**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.
240G	11-9/16"	2-13/16"	23/32"	13/32"	.63



**NEEDLE NOSE PLIERS WITH SIDE CUTTER**

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



Product ID No.	L	A	B	C	Weight lbs.
229-01G	5-9/16"	1-11/16"	1/2"	9/32"	.23 Coil Spring
226G	6-5/8"	1-7/8"	11/16"	3/8"	.34 Meets ergonomics criteria
226-01G	7-1/2"	2-5/8"	3/4"	3/8"	.40 Coil Spring

Fed'l Specs.: GGG-P-471E  
ANSI Spec.: B107.13M



**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.

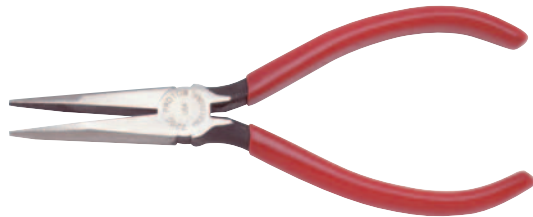
Product ID No.	L	A	B	C	Weight lbs.
223G	6-5/32"	2-5/32"	1/2"	9/32"	.20

Fed'l Specs.: GGG-W-471E  
ANSI Spec.: B107.20M

**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.
241G	11-3/8"	2-9/16"	23/32"	13/32"	.62

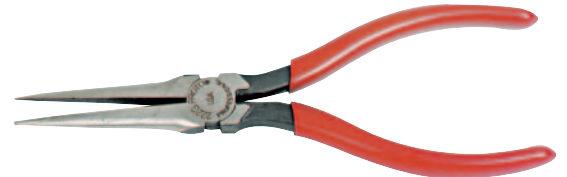


**NEEDLE NOSE PLIERS**

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

Product ID No.	L	A	B	C	Weight lbs.
282BSG	4-7/8"	1-3/16"	7/16"	1/4"	.16 Coil Spring
282G	4-7/8"	1-3/16"	7/16"	1/4"	.16
229-03G	5-9/16"	1-11/16"	1/2"	9/32"	.23
220G	6-5/8"	1-7/8"	11/16"	3/8"	.35

Fed'l Specs.: GGG-W-471E  
ANSI Spec.: B107.20M



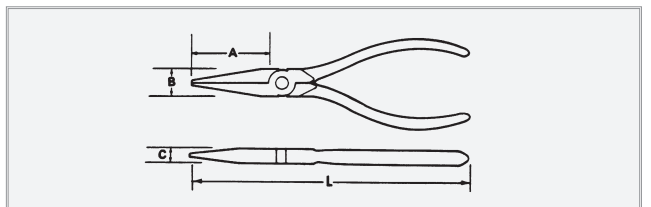
**NEEDLE NOSE PLIERS—LONG THIN**

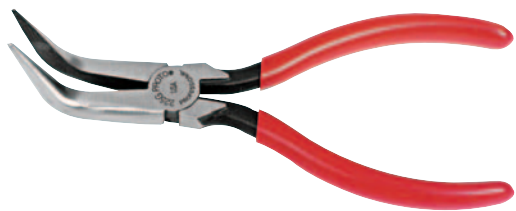
- Very thin nose allows access into minimum clearance areas.
- Diamond serrated jaws.
- Plastisol grips for added comfort.

Product ID No.	L	A	B	C	Weight lbs.
222G	6-1/16"	2-1/8"	11/16"	11/32"	.28

Fed'l Specs.: GGG-W-471E  
ANSI Spec.: B107.13M

**REFERENCE MEASUREMENT KEY**



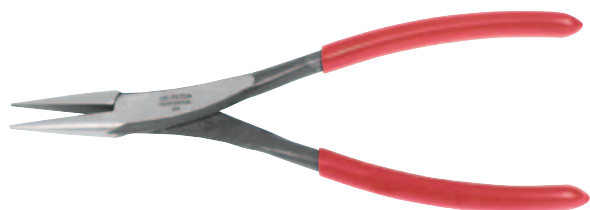


## NEEDLE NOSE PLIERS—BENT NOSE

- 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.
225G	6-5/16"	1-5/8"	3/4"	3/8"	.42

Fed'l Specs.: GGG-W-471E  
ANSI Spec.: B107.13M

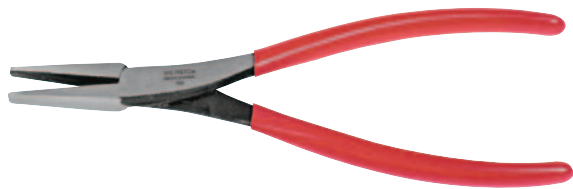


## NEEDLE NOSE PLIERS—LONG

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

Product ID No.	L	A	B	C	Weight lbs.
228G	7-25/32"	1-9/16"	17/32"	7/16"	.38

Fed'l Specs.: GGG-W-471E  
ANSI Spec.: B107.13M



## 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.
227G	7-25/32"	1-9/16"	17/32"	7/16"	.38

Fed'l Specs.: GGG-W-471E  
ANSI Spec.: B107.13M



## SET OF 291R 3 PC. LOCKING PLIERS SET

- Weight: 2.51 lbs.

Set No.	Contents	Description	Length
291R	2901R	Straight Jaw	7"
	292R	Curved Jaw	10"
	286LN	Long Nose	6"
	2484	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.
- Special adjusting screw works twice as fast.

Product ID No.	Length	Jaw Thickness	Jaw Adjustment	Weight lbs.
277WR	4"	7/32"	15/16"	.21
293WR	5"	1/4"	1-1/4"	.35
294WR	7"	5/16"	1-5/8"	.72
292WR	10"	7/16"	1-7/8"	1.24

Fed'l Specs.: GGG-W-471E  
ANSI Spec.: B107.13M



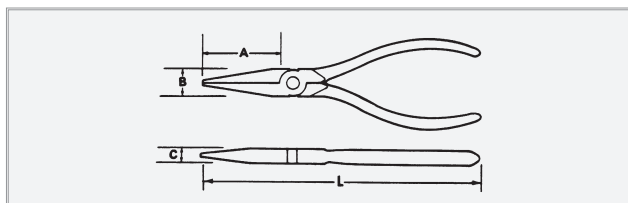
## LOCKING PLIERS—CURVED JAW

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

Product ID No.	Length	Jaw Thickness	Jaw Adjustment	Weight lbs.
290R	7"	5/16"	1-5/8"	.73
292R	10"	7/16"	1-7/8"	1.34

Fed'l Specs.: GGG-W-00649

## REFERENCE MEASUREMENT KEY







**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.	Length	Jaw Thickness	Jaw Adjustment	Weight lbs.
284LN	4"	1/8" at tip 1/4" at base	1-5/8" at tip 11/16" at base	.22
286LN	6"	5/32" at tip 5/16" at base	2-1/4" at tip 1-5/16" at base	.38
289LN	9"	3/16" at tip 13/32" at base	2-7/8" at tip 15/16" at base	.78



**LOCKING PLIERS—WELDING CLAMP**

- U-shaped jaws for visibility and working space.
- Hold work in proper alignment.
- 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 Width	Throat Depth	Weight lbs.
261R	9"	2-3/4"	1-5/8"	1.56

Fed'l Specs.: GGG-W-00649



**LOCKING PLIERS—CHAIN CLAMP**

- 18" chain holds and locks around almost any shape.
- 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.
- Handles pipe from 3/4"-6" O.D.

Product ID No.	Length	Chain Length	Weight lbs.
262R	9"	18"	1.88



**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.
291R	7"	1/2"	1-1/8"	.79
293R	10"	5/8"	1-5/8"	1.17

Fed'l Specs.: GGG-W-00649



**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	Throat Depth	Jaw Adjustment	Weight lbs.
265R	6"	1/2"	0 - 2-1/8"	.47
266R	11"	2-5/8"	0 - 4"	1.75

Fed'l Specs.: GGG-W-00649



**LOCKING PLIERS—SHEET METAL CLAMP**

- Makes bending, forming and crimping jobs easier.
- 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 Width	Throat Depth	Weight lbs.
260R	8"	3-1/8"	1-3/4"	1.19

Fed'l Specs.: GGG-W-00649



**SET NO. 360B  
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	Length	
360R	399	.038	0°	5-7/8"	Meets ergonomic criteria
	370	.038	45°	5-3/4"	
	371	.038	90°	5-11/16"	
	372	.047	0°	5-7/8"	
	373	.047	45°	5-3/4"	
	374	.047	90°	5-11/16"	
	385	.070	0°	7-1/2"	
	375	.070	45°	7-3/8"	
	376	.070	90°	7-1/8"	
	377	.090	0°	9-1/4"	
	378	.090	45°	9"	
	379	.090	90°	8-5/8"	



**SET NO. 360A  
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	Length	
360A	399	.038	0°	5-7/8"	Meets ergonomic criteria
	371	.038	90°	5-11/16"	
	372	.047	0°	5-7/8"	
	374	.047	90°	5-11/16"	
	385	.070	0°	7-1/2"	
	376	.070	90°	7-1/2"	



**SET NO. 380  
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).
- Pliers overall length 6-1/4".
- Weight: .64 lbs.

Product ID No.	Tip Size	Tip Angle
380	.038	90°
	.047	45°
	.047	0°
	.070	0°

Replacement Tips: 380T – Includes 16 replacement tips listed above in plastic box



**SET NO. 361  
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.
- 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
380	.108	0°	.120	0°
	.108	15°	.120	15°
	.108	45°	.120	45°
	.108	90°	.120	90°

Replacement Tips: 362 – Includes 2 each .108 tips in 0°, 15°, 45°, 90°  
363 – Includes 2 each .120 tips in 0°, 15°, 45°, 90°



**SET NO. 360C  
4 PC. CONVERTIBLE RETAINING RING PLIERS SET**

- Patented plier design permits quick change-over to work internal or external rings.
- Pliers have no screws to tighten.
- Pliers have a return spring 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	
360C	399L	.038	18°	6"	Meets ergonomic criteria
	371L	.038	90°	5-3/4"	
	385L	.070	18°	7-1/4"	Meets ergonomic criteria
	376L	.070	90°	6-3/4"	

**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 Angle	Tip Size	Length	RETAINING RING SERIES EXTERNAL					RETAINING RING SERIES INTERNAL					Meets ergonomic criteria
				Dia. Inches	Shaft Ander-ton	Indust.	Truarc	Dash No.	Bore Dia. Inches	Ander-ton	Indust.	Truarc	Dash No.	
399	0°	.038	5-7/8"	1/4 - 4364	1400	3100	5100	-25 thru-66	3/8 - 916	N1300	3000-X	N5000	-37 thru-56	Meets ergonomic criteria
370	45°	.038	5-3/4"	1/4 - 364	1401	3101	5101	-25 thru-66	3/8 - 916	N1301	3001-X	N5001	-37 thru-56	
371	90°	.038	5-11/16"	1/2 - 2532	1408	4100	5108	-50 thru-78	3/8 - 916	N1302	—	N5002	-37 thru-56	
				1/8 - 532	1440	—	5555	-12 thru-25	3/4 - 1	1308	4000	5008	-75 thru-100	
372	0°	.047	5-7/8"	11/16 - 7/8	1400	3100	5100	-68 thru-87	5/8 - 1.02	N1300	3000-X	N5000	-62 thru-102	Meets ergonomic criteria
373	45°	.047	5-3/4"	11/16 - 7/8	1401	3101	5101	-68 thru-87	5/8 - 1.02	N1301	3001-X	N5001	-62 thru-102	
374	90°	.047	5-11/16"	13/16 - 1	1408	—	5108	-81 thru-100	1 - 1.02	N1302	—	N5002	-100 thru-102	
				3/16 - 1/4	1440	4100	5555	-31, -37	11/16 - 1-3/8	1308	4000	5008	-106 thru-137	
385	0°	.070	7-1/2"	15/16 - 1-7/16	1400	3100	5100	-93 thru-143	1-1/16 - 1-3/4	N1300	3000-X	N5000	-106 thru-175	Meets ergonomic criteria
375	45°	.070	7-3/8"	15/16 - 1-7/16	1401	3101	5101	-93 thru-143	1-1/16 - 1-3/4	N1301	3001-X	N5001	-106 thru-175	
376	90°	.070	7-1/8"	1 - 1-7/16	1402	—	5102	-100 thru-143	1-1/16 - 1-3/4	N1302	—	N5002	-106 thru-175	
				1 - 1/16, 2	1408	4100	5108	-106 thru-200	1-7/16 - 2	1308	4000	5008	-143 thru-200	
				7/16 - 3/4	1440	—	5555	-43 thru-75	1-7/16 - 2	1308	4000	5008	-143 thru-200	
377	0°	.090	9-1/4"	1-1/2 - 3-1/2	1401	3100	5100	-150 thru-350	1-13/16 - 3	N1300	3000-X	N5000	-181 thru-300	Meets ergonomic criteria
378	45°	.090	9"	1-1/2 - 3-1/2	1402	—	5102	-150 thru-350	1-13/16 - 3	N1301	3001-X	N5001	-181 thru-300	
379	90°	.090	8-5/8"	1-1/2 - 1-3/4	—	3101	5101	-150 thru-175	1-13/16 - 3	N1302	—	N5002	-181 thru-300	
				2-5/32 - 3-11/32	1408	4101	5108	-215 thru-334	2-1/16 - 3	1308	4000	5008	-206 thru-300	

Fed'l Specs.: GGG-P-480E  
ANSI B107.19

**PLIERS SELECTION PROCEDURE**

Ander-ton, Industrial, and Truarc are retaining ring manufacturers. Their ring part numbers are listed to help you select the proper pliers. The Dash No. is the size of the ring for the shaft or bore. For example, if you needed to select pliers for a Truarc 5100-68 ring, you would choose either a 372, 373, or 374 after selecting the tip angle that best meets your application.



**LARGE RETAINING RING PLIERS—INTERNAL/EXTERNAL**

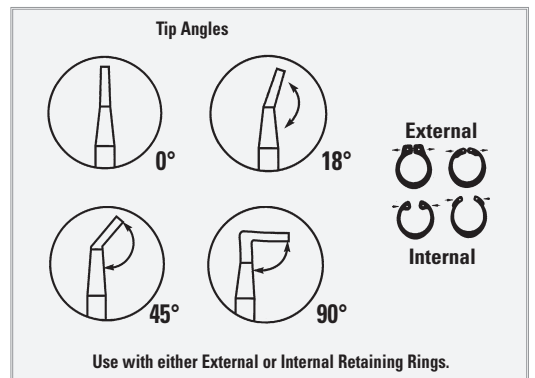
- Spring loaded ratchet mechanism minimizes operator fatigue by allowing the ring to be compressed or expanded through gradual "moves" and then locks at the desired size without continued pressure on the handles. Heavy and large rings are safely and easily controlled.
- Replaceable tips in 0°, 45° and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

Product No.	Tip Angle	Tip Size	Length	Shaft Dia. in. (External)	Bore Dia. in. (Internal)	Indus.	Truarc	Dash No.
364	0°	.120	16-1/2"		3-1/16 - 6	3000X	5000	-306 thru-625
					3-5/32 - 4	4000	5008	-315 thru-400
365	0°	.120	16-1/2"	3-35/64 - 6-1/2		3100	5100	-354 thru-650
				3-1/2 - 4		4100	5108	-350 thru-400

REPLACEMENT TIPS 364-TO, 0° Tips. 364-T45, 45° Tips. 364-T90, 90° Tips.  
Fed'l Specs.: GGG-P-480E  
ANSI Spec.: B107.19

NOTE: When selecting retaining ring pliers always choose the largest diameter tip that will fit the retaining ring being removed or installed.

**REFERENCE MEASUREMENT KEY**





## RETAINING RING PLIERS—EXTERNAL

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

Product No.	Tip Angle	Tip Size	Length	Shaft Dia. in.	Ander-ton	Indus.	Truarc	Dash No.
391	0°	.038	6-1/8"	1/4 - 21/32	1400	3100	5100	-25 thru-66
397	90°	.038	6-1/8"	1/4 - 21/32	1401	3101	5101	-25 thru-66
				1/2 - 1	1408	4100	5108	-50 thru-78
				1/8 - 5/32	1440	—	5555	-12 thru-25
				15/16 - 17/16	1400	3100	5100	-93 thru-143
				15/16 - 1-7/16	1401	3100	5101	-93 thru-143
393	0°	.070	6-7/8"	1 - 17/16	1402	—	5102	-100 thru-143
				1-1/16 - 2	1408	4100	5108	-106 thru-200
				7/16 - 3/4	1440	—	5555	-43 thru-75
				1-1/2 - 3-1/2	1400	3100	5100	-150 thru-350
395	0°	.115	9-1/8"	1-1/2 - 3-1/2	1401	3101	5101	-150 thru-350
				1-1/2 - 3-1/2	1402	—	5102	-150 thru-350
				2-1/8 - 3-11/32	1408	4100	5108	-215 thru-334

Fed'l Specs.: GGG-P-480  
ANSI Spec.: B107.19



## RETAINING RING PLIERS—INTERNAL

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



Product No.	Tip Angle	Tip Size	Length	Bore Dia. in.	Ander-ton	Indus.	Truarc	Dash No.
				1/4 - 5/16	N1300	3000-X	N5000	-25 thru-31
390	0°	.025	5-3/8"	1/4 - 5/16	N1301	3001-X	N5001	-25 thru-31
				1/4 - 5/16	N1302	—	N5002	-25 thru-31
				5/8	1308	4000	5008	-62
				3/8 - 9/16	N1300	3000-X	N5000	-37 thru-56
389	0°	.038	5-3/8"	3/8 - 9/16	N1301	3001-X	N5001	-37 thru-56
398	45°	.038	5-3/8"	3/8 - 9/16	N1302	—	N5002	-37 thru-56
				3/4 - 1	1308	4000	5008	-75 thru-100
				1-1/16 - 1-3/4	N1300	3000-X	N5000	-106 thru-175
				1-1/16 - 1-3/4	N1301	3001-X	N5001	-106 thru-175
392*	0°	.070	6-1/2"	1-1/16 - 1-3/4	N1302	—	N5002	-106 thru-175
				1-7/16 - 2	1308	4000	5008	-143 thru-200
				1-13/16 - 3	N1300	3000-X	N5000	-181 thru-300
				1-13/16 - 3	N1301	3001-X	N5001	-181 thru-300
394	0°	.090	9"	1-13/16 - 3	N1302	—	N5002	-181 thru-300
				2-1/16 - 3	1308	4000	5008	-206 thru-300

Fed'l Specs.: GGG-P-480  
ANSI Spec.: B107.19

\*Meets ergonomic criteria



## 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.
250G	7-13/16"	.49

Fed'l Specs.: GGG-P-480E

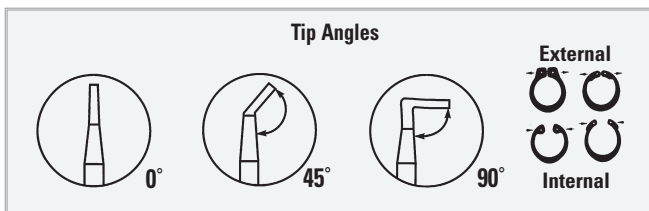


## LOCK RING PLIERS—PARALLEL JAW

- 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 11/4".
- Plastisol grips for added comfort.

Product ID No.	Length	Weight lbs.
251G	10-9/16"	.68

## REFERENCE MEASUREMENT KEY





**5 IN 1 MULTI-PURPOSE PLIERS**

- Strips 10-22 AWG - American Wire Gauge.
- Crimps insulated and non-insulated terminals for 10-22 AWG wire.
- 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.
- Cuts copper wire.
- Plier nose designed to grip, bend, and pull wire.
- Plasticsol grips for added comfort.

Product ID No.	Length	Weight lbs.
298	8-1/4"	.50



**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.
- Plasticsol grips for added comfort.

Product ID No.	Length	Weight lbs.
299	8-5/8"	.45

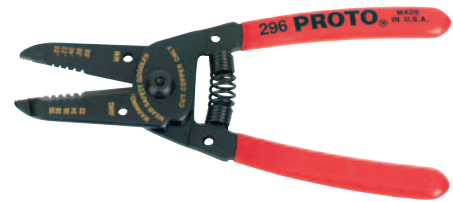


**WIRE STRIPPER**

- 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.
- Plasticsol grips for added comfort.

Product ID No.	Length	Weight lbs.
297	6-1/16"	.21

Fed'l Specs.: GGG-S-665C



**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.
- Plasticsol grips for added comfort.

Product ID No.	Length	Weight lbs.
296	6-1/16"	.21



**FLAT CABLE STRIPPING PLIERS**

- Automatic Wire Stripper for flat electrical cable.
- Strips outer sheathing as well as insulation from single wires.
- Stripper automatically adjusts to the diameter of the wire.
- Cutting blades never touch the conductors preventing damage to the wire.
- Spring action returns handle to ready position reducing fatigue.

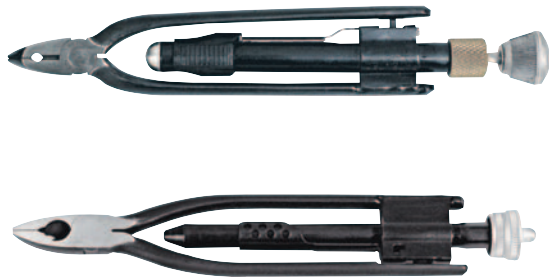
Product ID No.	Length	Capacity	Weight lbs.
295	6-1/2"	8-13 AWG	.26



**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.
- Plasticsol grips for added comfort.

Product ID No.	Length	Weight lbs.
288	7-1/2"	.56



## 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.
- 190 designed for wire sizes .020" - .041".
- 191, 192, 195 designed for wire sizes .020" - .060".



Product ID No.	Description	Length	Weight lbs.
190	Wire twister pliers - 6"	8-3/8"	.59
191	Wire twister pliers - 9"	10-3/8"	.85
192	Automatic wire twister pliers - 9"	10-3/8"	.85
195	Automatic wire twister pliers - left hand twist - 9"	10-3/8"	.85

Fed'l Specs.: GGG-W-340B  
ANSI Spec.: B107.18M



## 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.
- 196 designed for wire sizes .020" - .041".
- 197 designed for wire sizes .020" - .060".

Product ID No.	Description	Length	Weight lbs.
196	Reversible, automatic wire twister pliers - 6"	8-3/4"	.60
197	Reversible, automatic wire twister pliers - 9"	11"	.88



## SAFETY WIRE TWISTER—DEEP REACH

- Designed for access into close clearance areas.

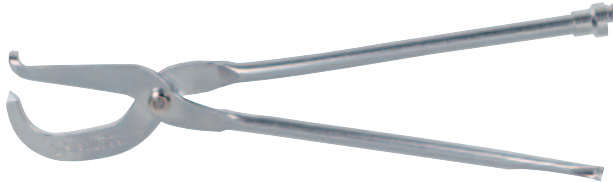
Product ID No.	Description	Length	Weight lbs.
193	Deep wire twister pliers	18-1/8"	.43



## SET NO. 194 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.

Set No.	Contents	Description	Length
194	190	Wire twister pliers - 6"	8-3/8"
	191	Wire twister pliers - 9"	10-3/8"
	193	Deep reach wire twister	18-7/8"



**BRAKE PLIERS—ALL-PURPOSE**

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

Product ID No.	Length	Weight lbs.
217	12-7/8"	1.05



**BATTERY TERMINAL SPREADER AND REAMER**

- Plastisol grips for added comfort.

Product ID No.	Length	Weight lbs.
319	7-1/2"	.55



**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
253G	6-1/2"	.54	253GRK



**OVAL HEAD CUTTER**

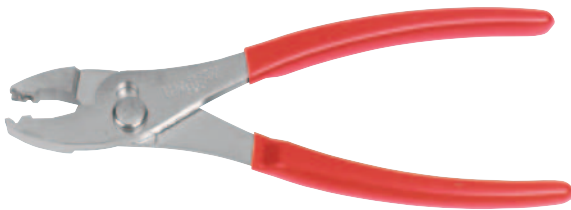
Product ID No.	Description of Cut	Length	Wire Capacity					
			A	B	C	D		
28300	Flush	5-1/4"	.788	.551	.354	.788	12 AWG	21 AWG



**ANGLED HEAD CUTTER**

- 28° angled head.

Product ID No.	Description of Cut	Length	Wire Capacity					
			A	B	C	D		
28270	Flush	4-1/4"	.473	.394	—	.394	16 AWG	26 AWG

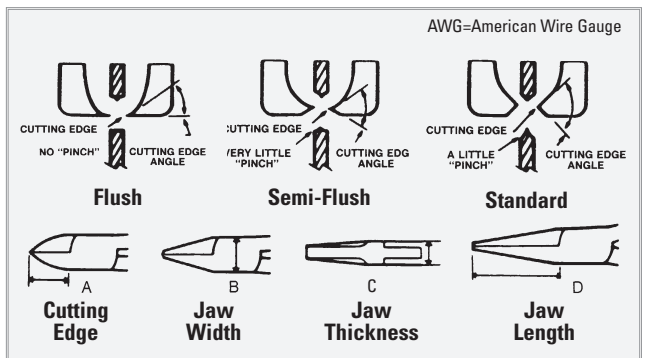


**HOSE CLAMP PLIERS**

- 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.
252G	7-3/4"	.56

**REFERENCE MEASUREMENT KEY**





## SET NO. 9511 11 PC. INSULATED TOOL SET

- The Proto Line of insulated pliers meet the stringent standards VDE 0682/201, EN 60900 and ASTM-F 1505-94 for electrical safety up to 1000V AC with the added safety of the injection molding process by which the plastic material of the handles is connected with the steel.
- Tested to 10,000 Volts, Rated to 1000V AC/1500V DC.
- Convenient zipper case for storage and transport.

Set No.	Contents	Description	Length
9511	9501	Phillips No. 1 Screwdriver	6-3/4"
	9502	Phillips No. 2 Screwdriver	8"
	9503	Phillips No. 3 Screwdriver	10-1/4"
	9514	Standard Tip Screwdriver 5/32"	4"
	9515	Standard Tip Screwdriver 7/32"	5"
	9516	Standard Tip Screwdriver 1/4"	6"
	9517	Standard Tip Screwdriver 5/16"	7"
	181	Linesman Plier	8"
	184	Diagonal Plier	6-19/64"
	186	Needle Nose Plier	6-3/4"
	187	Needle Nose Plier	8"
	9511SC	Zipper Case	

AC1000V



## DIAGONAL CUTTING PLIERS—INSULATED

- Tested to 10,000 Volts, Rated to 1000V AC/1500V DC.
- Molded handles provide wear resistance.
- Meet ASTM F1505-94, IEC 900/EN 60900, VDE 0680/201.
- Safety orange for quick identification.

Product ID No.	L	A	B	C	lbs.	
182	7"	25/32"	63/64"	25/64"	.56	High Leverage
183	8"	25/32"	1-5/64"	13/32"	.72	High Leverage
184	6-19/64"	25/32"	53/64"	25/64"	.50	
185	7"	63/64"	29/32"	29/64"	.62	

AC1000V



## NEEDLE NOSE PLIERS—INSULATED

- Tested to 10,000 Volts, Rated to 1000V AC/1500V DC.
- Molded handles provide wear resistance.
- Meet ASTM F1505-94, IEC 900/EN 60900, VDE 0680/201.
- Safety orange for quick identification.

Product ID No.	L	A	B	C	lbs.
186	6-3/4"	2"	5/8"	3/8"	.38
187	8"	2-3/4"	43/64"	25/64"	.46

AC1000V



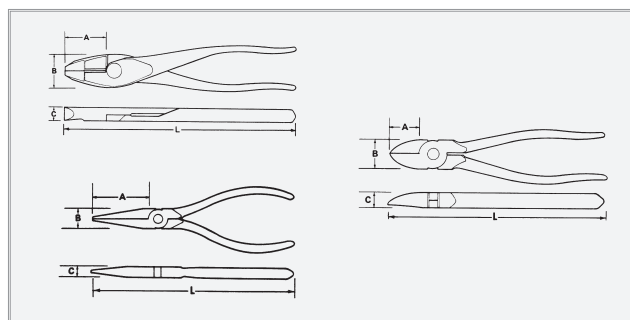
## LINEMAN'S PLIERS—INSULATED

- Tested to 10,000 Volts, Rated to 1000V AC/1500V DC.
- Molded handles provide wear resistance.
- Meet ASTM F1505-94, IEC 900/EN 60900, VDE 0680/201.
- Safety orange for quick identification.

Product ID No.	L	A	B	C	lbs.
180	7"	1-9/16"	1-1/32"	25/64"	.62
181	8"	2"	1-7/64"	13/32"	.74

AC1000V

## REFERENCE MEASUREMENT KEY







**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	lbs.
102GS	0"-2"	1-3/8"	1/2"	7,500	1.3
103GS	0"-3"	1-3/4"	5/8"	8,750	2.6
104GS	0"-4 1/8"	2"	3/4"	10,000	4.1
106GS	2"-6"	2-1/4"	3/4"	11,250	5.9
108GS	4"-8"	2-1/4"	3/4"	12,500	6.9
110GS	6"-10"	2-3/8"	3/4"	13,750	8.0
112GS	8"-12"	2-5/8"	7/8"	15,000	11.6
115GS	10"-15"	2-1/2"	7/8"	16,250	15.0
118GS	12"-18"	2-7/8"	7/8"	17,500	18.2

CID A-A-429C

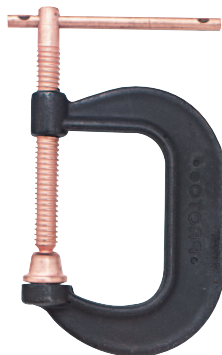


**C-CLAMPS—STANDARD SERVICE DEEP THROAT FULL LENGTH SCREW**

- 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	lbs.
402	0"-2"	2"	1/2"	3,500	1.3
403	0"-3"	2-3/8"	1/2"	3,500	2.0
404	0"-4"	2-3/4"	3/4"	6,500	3.5
406	0"-6"	3-5/8"	3/4"	6,600	5.0
408	0"-8"	4-1/2"	3/4"	6,900	7.0
410	0"-10"	5-3/8"	3/4"	8,000	10.5
412	0"-12"	5-3/4"	7/8"	9,500	15.5

CID A-A-429C



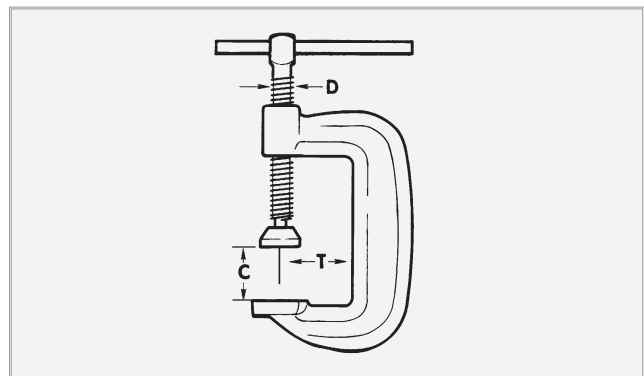
**C-CLAMPS—STANDARD SERVICE DEEP THROAT SPATTER RESISTANT FULL LENGTH SCREW**

- 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	lbs.
402S	0"-2"	2"	1/2"	3,300	1.3
403S	0"-3"	2-3/8"	1/2"	3,500	2.0
404S	0"-4"	2-3/4"	3/4"	4,100	3.5
406S	0"-6"	3-5/8"	3/4"	5,400	5.0
408S	0"-8"	4-1/2"	3/4"	5,900	7.0
410S	0"-10"	5-3/8"	3/4"	6,200	10.5
412S	0"-12"	5-3/4"	7/8"	9,300	15.5

CID A-A-429C

**REFERENCE MEASUREMENT KEY**





## 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	lbs.
424	0"-4"	3-5/8"	3/4"	4,100	4.8
426	0"-6"	4-3/4"	3/4"	5,400	7.0
428	0"-8"	5-5/8"	3/4"	5,900	9.8

CID A-A-429C



## 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	lbs.
424S	0"-4"	3-5/8"	3/4"	4,100	4.8
426S	0"-6"	4-3/4"	3/4"	5,400	7.0
428S	0"-8"	5-5/8"	3/4"	5,900	9.8

CID A-A-429C



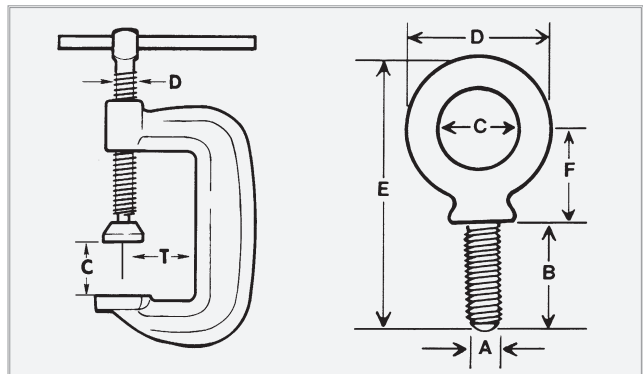
## FORGED EYE BOLTS

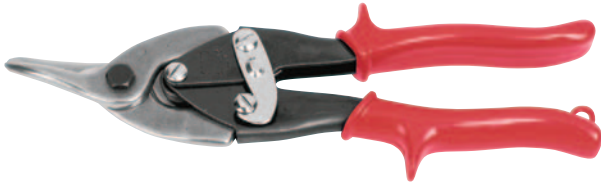
- Maximum load ratings for eye bolts are drastically reduced when loading at an angle.
- Angular loads should be avoided whenever possible.
- For angular loads of 15° or more, consult ANSI B18.15.
- Certified mercury free.

Product ID No.	Thread Size UNC-2A (A)	Shank Length (B)	Eye ID (C)	Eye OD (D)	Overall Length (E)	Center Eye To Shoulder (F)	Rated Capacity lbs.	lbs.
94020	1/4-20	1.00	.69 .81	1.19	2.22 2.53	.69 .81	500	.05
94021	5/16-18	1.12	.81 .94	1.44	2.66 2.97	.88 1.00	900	.10
94022	3/8-16	1.25	.94 1.06	1.69	3.09 3.47	1.06 1.09	1,300	.16
94023	7/16-14	1.38	1.00 1.12	1.81	3.41 3.78	1.19 1.31	1,800	.24
94024	1/2-13	1.50	1.12 1.25	2.12	3.81 4.19	1.31 1.44	2,400	.35
94025	9/16-12	1.75	1.31 1.44	2.56	4.56 4.94	1.59 1.72	3,200	.47
94026	5/8-11	1.75	1.31 1.44	2.56	4.56 4.94	1.59 1.72	4,000	.67
94027	3/4-10	2.00	1.44 1.56	2.81	5.06 5.50	1.72 1.91	5,000	1.00
94028	7/8-9	2.25	1.56 1.69	3.19	5.75 6.19	2.03 2.22	7,000	1.63
94029	1-8	2.50	1.69 1.81	3.56	6.44 6.88	2.22 2.41	9,000	2.22
94030	1-1/8-7	2.75	1.94 2.06	4.06	7.31 7.75	2.59 2.78	12,000	3.40
94031	1-1/4-7	3.00	2.12 2.25	4.44	8.00 8.44	2.84 3.03	15,000	4.44
94032	1-1/2-6	3.50	2.44 2.56	5.19	9.22 9.72	3.19 3.44	21,000	7.36
94033	1-3/4-5	3.75	2.75 3.00	6.00	10.50 11.12	3.88 4.12	28,000	11.35
94034	2-4-1/2	4.00	3.06 3.44	6.88	11.53 12.22	4.25 4.50	38,000	16.70

ASTM A 489  
ANSI B 18.15

## REFERENCE MEASUREMENT KEY



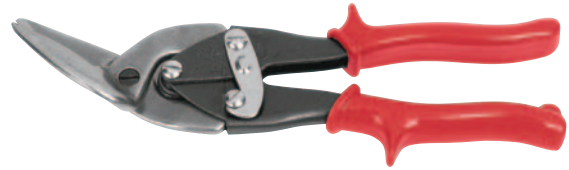


**AVIATION SNIPS**

- 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.
303L	Left	Red	10"	1-3/8"	.94
303R	Right	Green	10"	1-3/8"	.94
303S	Straight	Yellow	10"	1-3/8"	.96

Fed'l Specs.: GGG-S-291F  
ANSI B107.16



**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.
303LS	Left	Red	10"	1-1/4"	1.00
303RS	Right	Green	10"	1-1/4"	1.00

Fed'l Specs.: GGG-S-291F  
ANSI B107.16



**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.
307	7"	1-1/2"	.45
310	10"	2"	.95
312	12-3/4"	2-3/4"	1.61

Fed'l Specs.: GGG-S-291F



**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.
317	7"	1-1/2"	.48
320	10"	2"	.93
322	12-3/4"	2-3/4"	1.64

Fed'l Specs.: GGG-S-291F

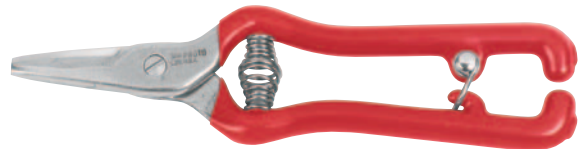


**HEAVY-DUTY SNIPS**

- Designed for making straight and moderately irregular cuts.
- Plastisol grips for added comfort.

Product ID No.	Overall Length	Blade Length	Weight lbs.
334	14"	3-7/8"	3.02
336	16"	2-1/2"	3.63

Fed'l Specs.: GGG-S-291F  
ANSI B107.16



**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".
- Coil spring increases production and reduces hand fatigue on repetitive cutting procedures.
- Plastisol grips for added comfort.

Product ID No.	Overall Length	Blade Length	Weight lbs.
306	10"	1-1/8"	.29



**MULTI-PURPOSE TOOL**

- 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 ID No.	Length	Weight lbs.
18575	5-5/8"	.56



**ELECTRICIAN'S KNIFE**

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

Product ID No.	Closed Position Overall Length	Weight lbs.
18535	3-3/4"	.32



**LOCKBACK KNIFE—WITH LEATHER SHEATH**

- 400 grade stainless steel blade.
- Laminated hardwood handle with heavy-duty lock springs.
- Solid one piece brass bolster and liner provide additional strength.

Product ID No.	Closed Position Overall Length	Weight lbs.
18545	5"	.57



**ELECTRICIAN'S KNIFE**

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

Product ID No.	Closed Position Overall Length	Weight lbs.
18500	3-3/4"	.24



**COMMEMORATIVE LOCKBACK KNIFE**

- Commemorative sculptured brass handle.
- Unique artwork features the Proto logo on one side, a selection of Proto tools on the reverse side.

Product ID No.	Closed Position Overall Length	Weight lbs.
18510	3"	.16



**PRUNING KNIFE**

Product ID No.	Closed Position Overall Length	Weight lbs.
18505	4-3/4"	.26



**TANTO FOLDER**

- Constructed using all precision laser cut parts with CNC machining and grinding set to the closest tolerances available in the knife industry today.
- 1/2" serrated, stainless steel blade.
- Liner locking blade.
- Lightweight 6061 aircraft aluminum handle with an anodized military gray finish.
- Stainless steel bead blasted pocket clip.

Product ID No.	Closed Position Overall Length	Blade Length	Blade Thickness
18585	4-1/2"	3-3/16"	1/8"



**TACTICAL FOLDER**

- Designed by Fred Carter.
- Built using the highest quality precision engineered and CNC machined parts.
- The handle is made of 6061-T6 aircraft aluminum with a 40 Rockwell hardness anodized coated finish.
- Recessed liner spring for a slim profile.
- Bead blasted stainless steel pocket clip.
- CryoEdge® treated, 440 Stainless Steel Blade.
- Blade features ball bearing detente for secure blade closure.
- Ambidextrous thumbstud.

Product ID No.	Closed Position Overall Length	Blade Length	Blade Thickness
18580	4-5/16"	3-1/16"	3/32"



**MICRO FOLDER**

- Constructed using all precision laser cut parts with CNC grinding set to the closest tolerances available in the knife industry today.
- Bead blasted, 440 Stainless Steel Blade.
- Liner locking blade.
- Lightweight 6061-T6 aircraft aluminum handle with an anodized military gray finish.
- Bead blasted stainless steel pocket clip.
- Thumbstud for one-handed opening.

Product ID No.	Closed Position Overall Length	Blade Length	Blade Thickness
18590	4"	2-7/8"	1/8"



**ELITE TACTICAL FOLDER**

- Designed by Fred Carter.
- 6061 Aircraft aluminum handle.
- Scratch resistant, hard anodized finish.
- Soft rubber handgrip.
- Skeletonized, stainless steel pocket clip.
- CryoEdge® treated, 440 Stainless Steel Blade.
- Ambidextrous thumbstud.
- Aluminum storage case.

Product ID No.	Closed Position Overall Length	Blade Length	Blade Thickness
18595	4-1-4"	3"	3/32"

