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Irwin® Tools

Irwin® Tools

LOCKING TOOLS

Vise-Grip® Locking Pliers

- Used for turning, cutting, tightening, clamping & twisting.
- High-grade alloy steels heat treated for max. toughness and durability.
- Hardened tooth design grips from any angle.
- Turn adjusting screw to fit work and squeeze handle w/one hand to lock on w/tremendous pressure.
- Stays adjusted for repetitive use.
- Guarded release trigger quickly unlocks.



Curved Jaw Locking Pliers w/ Wire Cutter

- Convenient wire cutter cuts up to a 1/4" bolt.
- Involute jaw curve permits user to put tremendous pressure on four points of any style nut or bolt head.



Curved Jaw Locking Pliers

- Involute jaw curve permits user to put tremendous pressure on four points of any style nut or bolt head.



Straight Jaw Locking Pliers

- Straight jaws allow for maximum contact on flat, square or hex work.
- Very popular in welding & other metal work.
- Use for safer grinding or as a portable vise.



Long Nose Locking Pliers

- Convenient wire cutter cuts up to a 1/4" bolt.
- Long, straight nose allows for use in narrow spaces not reachable by curved or straight jaws.
- Use to clamp or tighten bolts or extract items in hard-to-reach places.



Bent Nose Locking Pliers

- Bent jaws provide off-angle access to tight places and allow for a better line of sight.
- Useful in automotive and electronic applications.

Large Jaw Locking Pliers

- Heavy-duty jaw grips around work of all shapes.
- 3-1/8" maximum jaw opening.
- Ideal for plumbers, mechanics, welders and others who work with large objects.



Locking Wrenches

- Heavy-Duty Jaw - Will twist fastener before breaking.
- Wire cutter
- Adjustable to Over 16 Wrench Sizes.
- Jaws Lock onto Three Sides - will not slip or mar.
- High Grade Alloy Steel - Heat treated for maximum toughness.
- Guarded Release Trigger - For quick opening.
- Adjusting Screw - For changing size and pressure.

Desc-ription	Size (in)	Wrench Size Range (in)	Carded Stock #
10LW™	10	5/8 to 1-1/8	02
7LW™	7	7/16 to 3/4	04
4LW™	4	1/4 to 9/16	08



Vise-Grip® Locking Clamps

- Wide-opening jaws provide greater versatility in clamping a wide variety of shapes.
- Powerful Locking Mechanism.
- Adjusting Screw Gives Exact Pressure:
 - Simply turn the adjustment screw to change jaw opening and clamping pressure.
 - Stays adjusted for repetitive use.
- Guarded release trigger quickly unlocks.



Locking Clamps w/Regular Tips

- Locks work with the squeeze of one hand.
- High-grade alloy steels heat treated for maximum toughness and durability.



Locking Clamps with Swivel Pads

- Swivel pads for holding without damaging work surface.



Locking Bar Clamp

- Moveable jaw slides open to extend clamping capabilities.
- Easy locking and quick release action.

Desc-ription	Size (in)	Jaw Adj. (in)	Throat Depth (in)	Carded Stock #
Locking Clamps w/Regular Tips				
6R®	6	0 - 2	1-1/2	17
11R®	11	0 - 4	2-5/8	19
18R®	18	0 - 8	9-1/2	21
18DR*	18	0 - 8	9-1/2	211
24R	24	0 - 12-1/2	15-1/2	275
Locking Clamps w/Swivel Pads				
4SP	4	0 - 1-5/8	1-1/4	165
6SP	6	0 - 2-1/8	1-1/2	18
11SP	11	0 - 4	2-5/8	20
18SP	18	0 - 8	9-1/2	22
24SP	24	0 - 10	15-1/2	28
Locking Bar Clamps				
310S	10	0 - 10	18	226
Locking Hold Down Clamp				
11HD	11	0 - 3-3/4	2-1/2	24

*Extended Throat Width



Locking Hold Down Clamp

- Self-leveling swivel tip helps hold-tapered work, irregular-shaped jobs and delicate objects.
- Clamps items securely to most drilling tables and workbenches.

Vise-Grip® Locking Specialty Tools:

Locking Welding Clamp

Desc-ription	Size (in)	Jaw Width (in)	Throat Depth (in)	Boxed Stock #
9R®	9	2-3/4	1-5/8	25



- U-shaped jaws for visibility and working space.
- Holds work in proper alignment.

Locking Sheet Metal Tool

Desc-ription	Size (in)	Jaw Width (in)	Throat Depth (in)	Boxed Stock #
8R®	8	3-1/8	1-3/4	23



- Locks to work, eliminating hand gripping.
- Makes bending, forming and crimping jobs easier.

Locking Panel Clamp

Desc-ription	Size (in)	Jaw Open. (in)	Throat Depth (in)	Boxed Stock #
9AC	9	3/8	7/32	251



- Provides quick clamping and alignment of auto body panels.
- Bottom jaw slides in straight line motion.

Locking Chain Clamp

Desc-ription	Size (in)	Chain Lgth. (in)	Boxed Stock #
20R®	9	18	27



- Holds and locks around any shape, any size.
- 18" chain, extension chain available.

Locking Pinch-Off Tool

Desc-ription	Size (in)	Jaw Thkns. (in)	Throat Depth (in)	Boxed Stock #
RR®	7	1/4	1	29



- Pinches off and locks on tubing.
- Leaves both hands free to do other work.

Hand Tools

Irwin® Tools

CLAMPING TOOLS

Quick-Grip® Clamping Tools Clamps

- High-tech resin material - adds durability to the clamp, yet maintains its lightweight feature.
- Non-marring, soft pliable pads - works well w/delicate or finished materials.
- Heat-Treated bar - results in a stronger bar which resists flexing, even when the clamp is tightened to its fullest.
- Quick-Release Trigger.
- Pistol Grip.

Bar Clamps

Max. Jaw Opening Cap (in)	Throat Depth Cap. (in)	Stock No.
Standard Bar Clamps		
6	3-1/4	506
12	3-1/4	512
18	3-1/4	518
24	3-1/4	524
36	3-1/4	536
50	3-1/4	550
Mini Bar Clamps		
6	2-7/16	546
6" / 2-Pack	-	5462
12"	2-7/16	5412
12" / 2-Pack	-	54122

Standard Bar Clamps

- Provide quick and easy one-handed clamping.
- Can't over tighten.

Mini Bar Clamps

- 25% smaller than standard.
- QUICK-GRIP® bar clamp.
- Ideal for smaller projects.
- Excellent for working in confined spaces.

Spreader

- Convenient on e-handed application and features of traditional QUICK-GRIP® bar clamp.
- Provides controlled outward pressure facilitating disassembly without need for striking surfaces.

Welding Clamps

- Jaws constructed from heat-treated carbon steel for greater heat dissipation.
- Copper plated pads make jaws resistant to welding splatter.
- Special horizontal and vertical groove design allows for clamping a variety of materials and shapes.
- One jaw swivels to assist in holding round stock.

Spreader

(Quick-Grip® Specialty Clamp)

Max. Jaw Opening Cap (in)	Throat Depth Cap. (in)	Stock No.
7-1/4	27.5	500

Welding Clamps

(Quick-Grip® Specialty Clamp)

Max. Jaw Opening Cap (in)	Throat Depth Cap. (in)	Stock No.
6	3-1/4	5906
18	3-1/4	5918

Quick-Grip® Spring Clamps

- Nonslip handles
 - Designed for comfortable hand span.
 - Incorporated into the handle are grooves to prevent slipping for quickest clamping possible.
- The Jaws are configured to hold odd-shaped work pieces.
- Jaws open to complete parallel position.
- Hightech resin material - made of durable glass-reinforced nylon affording lightweight durability.
- Non-Marring, Soft, Pliable Removable Pads - protect work pieces.

Max. Jaw Opening Cap. (in)	Stock No.
1	58100
2	58200
3	58300



Ames-TrueTemper

HAMMERS & SLEDGES

Pulverizer™ Concrete Demo Hammer

Strike, bust, break, gouge, and pulverize it with the Pulverizer concrete demolition hammer. The fully forged and entirely heat treated to 48-53 Rockwell hardness for durability and safety. Multi-functional tool has a triangle shaped area to rip drywall, claw teeth for better prying application, and textured TPE grip with shock dampening properties.



Product No.	Head Wt (lbs)	Description	UPC No.
2517400	3.3	Forged 12.8" Length	049206251748

Double Face Engineer Hammer

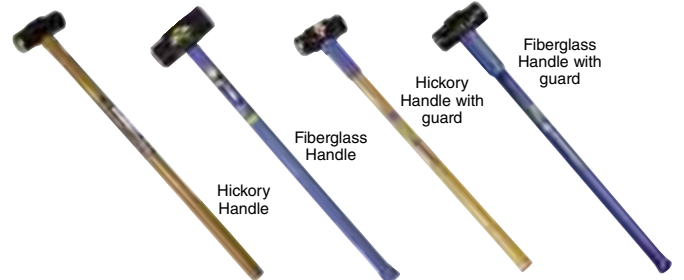
The Engineer Hammer features a 16-inch handle and a double face forged steel hammer head, perfect for heavy hammering or demolition work. This unit makes driving spikes or wedges easier. This is great for personal or professional use.



Product No.	Head Wt (lbs)	Description	UPC No.
1196200	2	16" Hickory handle	049206119628
1196300	3	16" Hickory handle	049206119635
1196900	4	16" Hickory handle	049206119697
1197500	6	16" Hickory handle	049206119758
1198900	8	16" Hickory handle	049206119895
1196800	3	16" Fiberglass handle	049206119680
1197000	4	16" Fiberglass handle	049206119703

Double Face Sledge Hammers

The sledge hammer features a 16 or 36 inch handle and a double face sledge hammer head perfect for destruction work, breaking dry wall or masonry walls. Heads are forged from high-carbon steel and tempered for hardness to withstand many years of heavy blows.

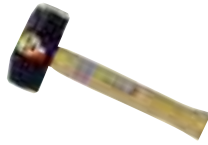


Product No.	Head Wt (lbs)	Description	UPC No.
1197400	6	36" Hickory handle	049206119741
1197900	8	36" Hickory handle	049206119796
1199100	10	36" Hickory handle	049206119918
1199400	12	36" Hickory handle	049206119949
1199700	16	36" Hickory handle	049206119970
1199900	20	36" Hickory handle	049206119994
1197600	6	36" Fiberglass handle	049206119765
1198800	8	36" Fiberglass handle	049206119888
1199300	10	36" Fiberglass handle	049206119932
1199600	12	36" Fiberglass handle	049206119963
1199800	16	36" Fiberglass handle	049206119987
1214800	6	16" Fiberglass handle w/grip	049206121485
1214900	8	16" Fiberglass handle w/grip	049206121492
1197800	8	36" Fiberglass handle w/handle guard	049206119789
1199000	10	36" Fiberglass handle w/handle guard	049206119901
1197700	8	36" Hickory handle w/handle guard	049206119772

Ames-TrueTemper

Hand Drill Hammer

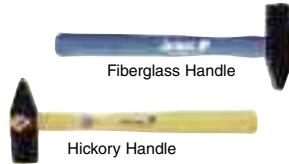
The Hand Drill Hammer features a 10.5-inch handle and a steel hammer head used with chisels, punches, star drills, and hardened nails. This unit permits heavy blows with limited swing. This is great for personal or professional use.



Product No.	Head Wt (lbs)	Description	UPC No.	Pack Wt. (lbs)	Pack Cube
1196100	2	10.5" Hickory handle	49206119611	4.5	0.08
1196400	3	10.5" Hickory handle	49206119642	6.5	0.09
1197100	4	10.5" Hickory handle	49206119710	8	0.14
1196600	3	10.5" Fiberglass handle	49206119659	6.5	0.1

Cross Pein Hammer

A Cross Pein Hammer is perfect for shaping block, brick and stone. The forged steel head with chamfered edges provides added durability. The 16-inch handle offers added strength to the tool when striking.



Product No.	Head Wt (lbs)	Description	UPC No.	Pack Wt. (lbs)	Pack Cube
1196000	2	16" Hickory handle	049206119604	5.25	0.13
1196700	3	16" Hickory handle	049206119673	7	0.17
1197300	4	16" Hickory handle	049206119734	9	0.21
1196500	3	16" Fiberglass handle	049206119659	6.5	0.1

Total Control Elite Sledge Hammer

The Total Control™ Elite sledge hammer is constructed with fiberglass handle and 10-pound head. It has an exclusive sleek design with additional functionality, safety and control. The tool features a patent-pending dual functionality head, two piece overstrike slip eye connection, TPE over mold for better control, and nonslip rounded and flared end for more precision and safety.



Product No.	Head Wt (lbs)	Description	UPC No.	Pack Wt. (lbs)	Pack Cube
1217400	10	36" Fiberglass handle	049206121744	54	1.13

Total Control Elite Demolition Hammer

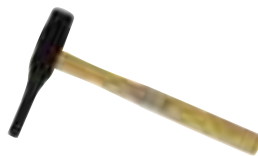
The Total Control™ Elite demolition hammer is constructed with fiberglass handle and 8-pound head. It has an exclusive sleek design with additional functionality, safety and control. The tool features a patent-pending dual functionality head, two piece overstrike slip eye connection, TPE over mold for better control, and nonslip rounded and flared end for more precision and safety.



Product No.	Head Wt (lbs)	Description	UPC No.
1217300	8	36" Fiberglass handle	049206121737

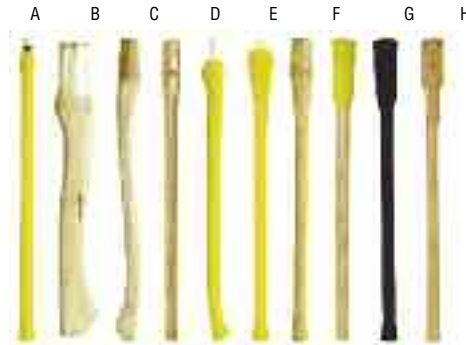
Back-Out Punch

The punch is a blacksmith's tool for backing out bolts, rivets, and pins. This tool features a heat-treated head and a 16-inch hickory handle. The hickory handle has a beautiful dipped lacquer finish and it is ergonomically better for hand comfort and stress reduction.



Product No.	Punch	Description	UPC No.
1149600	0.5"	16" Hickory handle	049206114968
1149800	0.625"	16" Hickory handle	049206114982
1150000	0.75"	16" Hickory handle	049206115002
1150100	0.875"	16" Hickory handle	049206115019
1150300	1"	16" Hickory handle	049206115033

REPLACEMENT HANDLES FOR HAMMERS



Key	Product No.	Handle Description	Fits	UPC No.
A	2038900	12" hickory nail-claw hammer	4-7 oz	032816206000
	2039100	14" hickory nail-claw hammer	16-20oz	032816206031
	2039200	16" hickory nail-claw hammer	20-24oz	032816206048
B	2039300	18" hickory nail-claw hammer	20-24oz	032816206055
	2041100	16" hickory framers hammer	28-32oz	032816206246
C	2040900	18" hickory framers hammer	28-32oz	032816206161
	2044400	12" hickory ball Pein hammer	8-12oz	032816206123
	2044500	14" hickory ball Pein hammer	16-20oz	032816206130
	2044600	16" hickory ball Pein hammer	24-48oz	032816206147
D	2044700	18" hickory ball Pein hammer	32-48oz	032816206154
	2046200	16" hickory engineers hammer	2-1/4lb	032816206215
E	2046300	18" hickory engineers hammer	6-8lb	032816206222
	2062300	16" fiberglass engineers hammer	2-4lb	032816200213
F	2048800	10.5" hickory drill hammer	2-4lb	032816206369
	2062600	11" fiberglass drill hammer	2-4lb	032816200367
H	2001200	24" hickory sledge hammer	6-8lb	032816206505
	2001300	30" hickory sledge hammer	6-8lb	032816206512
	2001400	32" hickory sledge hammer	6-16lb	032816206529
	2036200	36" hickory sledge hammer	6-16lb	049206203624
	2002400	36" hickory sledge hammer	20-24lb	032816206574

WOOD SPLITTERS

Axe Eye Wood Splitter

The True Temper axe eye wood splitter maul with handle absorbs shock before it reaches the user. Utilize tool for splitting wood in conjunction with woodsplitting wedges by first making a notch with splitting edges and then driving the wedge with the maul's striking head.



Product No.	Head Wt (lbs)	Description	UPC No.
1190000	6	36" hickory handle. Eye size .875"x2.5"	049206119000
1190200	8	36" hickory handle. Eye size .875"x2.5"	049206119024
1190100	8	36" fiberglass handle. Eye size .875"x2.5"	049206119017

Super Splitter Wood Splitter

This Super Splitter Wood Splitter provides more splitting with less weight, reducing fatigue. The steel head is attached to a 36-inch FiberPro handle that ensures maximum strength and durability. The four pound axe head provides for an easy and effective swing.



Product No.	Head Wt (lbs)	Description	UPC No.
1190400	4	36" Fiberglass handle.	049206119048
1190700	4	36" Total Control™ fiberglass wave handle.	049206119079

Hand Tools

Ames-TrueTemper

Sledge Eye

The 6-pound axe head and 36-inch hickory handle provide an effective swing. The Sledge Eye Wood Splitter is used for trimming branches, pruning trees, and splitting and cutting wood. The striking face is heat-treated for the hardness to withstand many years of heavy blows.



Product No.	Head Wt (lbs)	Description	UPC No.
1189400	6	Sledge eye wood splitter. 36" hickory handle. Eye size 1" x 1.375"	049206118942
1189800	8	Sledge eye wood splitter. 36" fiberglass. Eye size 1" x 1.375"	049206118980

Boys Axe

2.25-pound Boy's Axe with hickory handle. Used to chop wood and clear branches from trees and shrubs. Strong traditional hickory handle will not splinter and last for years to come.



Product No.	Head Wt (lbs)	Description	UPC No.
1188700	2.25	28" hickory handle	049206118874

Single Bit Michigan Axe

The 3.5-pound single bit Michigan Axe is used to chop wood and clear branches from trees and shrubs.



Product No.	Head Wt (lbs)	Description	UPC No.
1188200	3.5	36" hickory handle	049206118829
1127200	3.5	36" fiberglass handle	049206112728

AXES & MAULS

Lickety Splitter

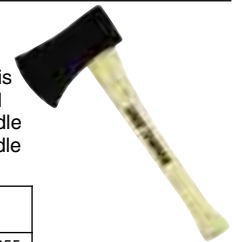
The Lickety Splitter wood splitter cuts wood fast and easily with its hefty-hitting 12-pound head. This tool has a durable design, featuring a 34 inch steel handle with a molded polypropylene cover for ultimate strength. It also has rubber hand grip for comfortable hand placement.



Product No.	Head Wt (lbs)	Description	UPC No.
1131500	12	34" Fiberglass handle	049206113152

Miner's Axe

The 20-inch hickory handle and 3.5 pound axe head provide an effective swing. The miner's axe is for trimming branches, pruning trees, splitting and cutting wood. This durable tool has a hickory handle that absorbs shock and an integrally molded handle for guard overstrike protection.



Product No.	Head Wt (lbs)	Description	UPC No.
1190500	3.5	20" hickory handle	049206119055

Large Eye Wood Splitter

Large eye wood splitter has a drop-forged steel 6-pound head used to split wood logs. This tool features a fiberglass handle with molded polypropylene cover for strength and durability. The long reaching 36-inch handle has an integrally-molded handle guard.



Product No.	Head Wt (lbs)	Description	UPC No.
1189900	6	36" Hickory handle with handle guard. Eye size 1.5"x2.375"	049206118997
1190300	8	36" Hickory handle with handle guard. Eye size 1.5"x2.375"	049206119031
1189600	6	36" Fiberglass handle with handle guard. Eye size 1.5"x2.375"	049206118966

Premium Single Bit Michigan Axe

The Michigan axe is forged and heat treated for maximum hardness, strength, and safety. The 3.5-pound axe head is used to drive stakes with the face. In addition, the axe can be used to trim branches, prune trees, and split and cut wood.



Product No.	Head Wt (lbs)	Description	UPC No.
1188500	3.5	36" hickory handle	049206118850
1189500	3.5	36" fiberglass wave handle	049206118959
1211300	3.5	36" hickory wave handle	049206121133

Wood Splitting Maul

Top-quality striking tool that makes cutting wood efficient and effective. The advantage of the wood splitting maul is the compound head. A wedge shaped one side, with a sledge on the other side. The total control fiberglass wave handle ensures comfort when one swings with authority to cut firewood.



Product No.	Head Wt (lbs)	Description	UPC No.
6662000	8	36" Total Control™ fiberglass wave handle	049206666207

Single Bit Dayton Axe

The single bit Axe features a 36 inch hickory handle and 3.5-pound axe head, perfect for trimming branches, pruning trees, and splitting and cutting wood. This unit also features an exclusive integrally-molded handle guard that won't slip or come loose.



Product No.	Head Wt (lbs)	Description	UPC No.
1190600	3.5	36" hickory handle	049206119062

Single Bit Camp Axe

The Camp Axe is a versatile wood cutting and shaping tool. It features a 1.25-pound forged steel carbon head with a 14-inch handle for ultimate strength and durability. This high performance axe is well balanced for efficient impacts.



Product No.	Head Wt (lbs)	Description	UPC No.
1188000	1.25	Single bit axe with 14" hickory handle	049206118805
1216000	1.25	Single bit axe with 14" fiberglass handle	049206121607

Double Bit Michigan Axe

The Michigan axe is forged and heat treated for maximum hardness, strength, and safety. The double bit 3.5-pound head is used for trimming branches, pruning trees, and splitting and cutting wood.



Product No.	Head Wt (lbs)	Description	UPC No.
1188600	3.5	36" hickory handle	049206118867
1209600	3.5	36" fiberglass handle	049206120969

Ames-True Temper

Landscaping Axe

The 3.75-pound Landscaping Axe is ideal for branch trimming, tree pruning, wood splitting and cutting. It has an integrally-molded handle guard for overstrike protection.



Product No.	Head Wt (lbs)	Description	UPC No.
1188800	3.75	36" hickory handle	049206118881
1209500	3.75	36" fiberglass handle	049206120952

Jersey Axe

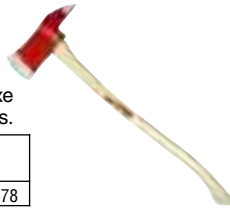
The Jersey axe features a 36-inch hickory handle and 3.5-pound axe head, perfect for trimming branches, pruning trees, and splitting and chopping wood. The ergonomic handle is durable, comfortable, and absorbs shock. The axe construction is lightweight and allows the user to swing effectively.



Product No.	Head Wt (lbs)	Description	UPC No.
1215200	3.5	36" hickory handle	049206121522

Fireman's Axe

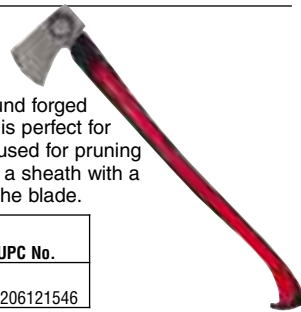
The 6-pound forged steel head mounted to a 36-inch hickory handle. Firefighters use this tool for constructing firebreaks. People use the axe to dig soil, chop wood, garden, and work outdoors.



Product No.	Head Wt (lbs)	Description	UPC No.
1214700	6	36" hickory handle	049206121478

Total Control Elite Axe

This single bit axe features a 32-inch fiberglass anti-vibration handle with over strike protection. It also has a 3.5-pound forged steel head with sharpened edge. This tool is perfect for camping. It easily splits wood and can be used for pruning and trimming tree limbs. This tool includes a sheath with a sharpening stone to maintain and protect the blade.



Product No.	Head Wt (lbs)	Description	UPC No.
1215400	3.5	32" overall length, with sheath, fiberglass handle	049206121546

Total Control Elite Hatchet

This camp axe features a 14-inch fiberglass anti-vibration handle with over strike protection. It also has 1.25-pound forged steel head with tapered edge and an integrated nail puller. This tool is perfect for camping, fishing, and includes sharpening stone.

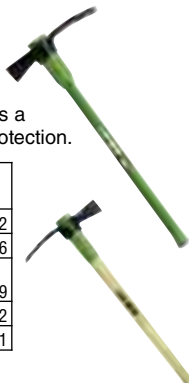


Product No.	Head Wt (lbs)	Description	UPC No.
1215300	1.25	14" overall length, without sheath, fiberglass handle	049206121539

MATTOCKS & PICKS

Cutter Mattock

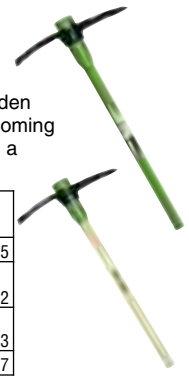
The Cutter Mattock features a 36-inch handle length and 3-pound head weight, perfect for digging up roots and breaking up compacted soil. This unit also features a hardwood handle with a handle guard for overstrike protection.



Product No.	Head Wt (lbs)	Eye Size	Description	UPC No.
1194800	3	6	36" wood handle w/guard	049206119482
1195300	5	6	36" wood handle w/guard	049206119536
1195200	5	6	36" fiberglass handle w/guard	049206119529
1134400	3	6	Head only	049206113442
1135400	5	6	Head only	049206113541

Pick Mattock

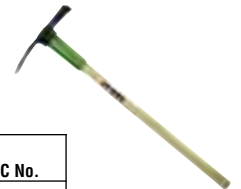
The Pick Mattock features a 36-inch handle length and 5-pound head weight, perfect for digging or breaking up compact ground. This unit features a wooden handle with a handle guard to prevent the shaft from coming loose or slipping while striking. Attached to the shaft is a forged steel head for maximum strength.



Product No.	Head Wt (lbs)	Eye Size	Description	UPC No.
1195000	5	-	36" wood handle w/guard	049206119505
1195100	5	6	36" fiberglass handle w/guard	049206119512
1152900	2.5	10	36" fiberglass handle w/guard	049206115293
1136500	5	-	Head Only	049206113657

Cutter Garden Mattock

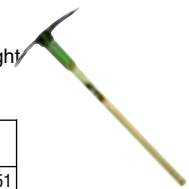
The 3-pound cutter mattock has a handle guard for permanent overstrike protection. The forged steel head offers maximum strength. This tool is great for digging and chopping roots or debris.



Product No.	Head Wt (lbs)	Eye Size	Description	UPC No.
1194400	2.5	10	36" wood handle w/guard	049206119444

Garden Pick

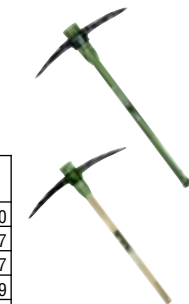
The 2.5 pound pick mattock has a hardwood handle and a handle guard for overstrike protection. Lightweight garden pick mattock loosens hard soil. It is ideal for digging up roots and breaking up hard soil and clay.



Product No.	Head Wt (lbs)	Eye Size	Description	UPC No.
1194500	2.5	10	36" wood handle w/guard	049206119451

Clay Pick

The 6-pound clay pick offers a hardwood handle and handle guard for overstrike protection. This tool is great for digging and chopping roots and breaking up hard compacted soil. The handle guard protects the handle from breaking if overstrike occurs.



Product No.	Head Wt (lbs)	Description	UPC No.
1195500	6	36" wood handle w/guard	049206119550
1195600	6	36" fiberglass handle w/guard	049206119567
1137800	5	Head only	049206113787
1138700	6	Head only	049206113879
1139600	5	Head only	049206113961

Mini Pick

Multi-use tool that digs and scoops in all soil types. Ideal for planting annual plants. Perfect for flower bed use.



Product No.	Description	UPC No.
1114200	Forged pick and trowel head with 14" fiberglass handle	049206119451

Dig EZ® Pick

This dual purpose tool eliminates the need to haul both a pick axe and trowel. Use the Dig EZ Pick as a pick and trowel to fracture compacted debris or scoop and remove soil. This versatile pick features a 5.5-pound steel head and 36-inch wood handle with handle guard.



Product No.	Head Wt (lbs)	Description	UPC No.
1117100	5.5	36" wood handle w/guard	049206111714
1117300	5.5	36" fiberglass handle w/guard	049206111738

Hand Tools

Ames-TrueTemper

TAMPERS

Tamper

This tamper is ideal for packing and leveling soil, asphalt, gravel, stone, and dirt. The high quality ash handle provides additional durability and strength. The heavy 11-pound steel head makes it a great tool for heavy construction, industrial, and commercial applications.



Product No.	Head Wt (lbs)	Description	UPC No.
1133400	11	42" ash handle	049206113343
1133700	14	42" ash handle	049206113374

REPLACEMENT HANDLES FOR AXES, MAULS & PICKS

A B C D E F G H I J



Key	Product No.	Handle Description	Fits	UPC No.
A	2062900	36" fiberglass sledge/maul	6-16lb	032816200534
	2036100	36" fiberglass sledge w/epoxy kit	6-16lb	049206203617
B	2024000	14" hickory hunter's axe	1-1/4lb	032816206475
	2020900	28" hickory boy's axe	2-1/4lb	032816206987
C	2006600	32" hickory single bit axe	3-5lb	032816206871
	2036700	36" hickory single bit axe	3-5lb	049206203679
D	2002900	36" hickory straight axe/maul	6-8lb	032816204921
	2036800	36" hickory double bit axe	3-5lb	049206203686
E	2063700	36" fiberglass single bit axe	3-5lb	032816200893
F	2063300	36" fiberglass double bit axe	3-5lb	032816200794
G	2016400	36" hickory garden pick/cutter mattock	2-1/2lb	049206201644
H	2036900	36" hardwood clay pick	5-9lb	049206203693
I	2027400	36" fiberglass railroad/clay pick	5-7lb	049206203693
	2004700	36" hickory 3 hole ditch bank	-	032816216030
J	2004900	40" hickory 3 hole ditch bank	-	032816216047

BARS

Wrecking Bar

The True Temper Gooseneck Wrecking Bar is a bar made of forged steel. This tool is painted black and used to lever, remove nails, pry apart boards, and in general to break things. It also has a single curved end and flattened points with a small fissure on both ends for removing nails.



Product No.	Description	Stock	Length	UPC No.	Pack Wt. (lbs)	Pack Cube
1169400	Fully painted black gooseneck	0.5"	12"	049206116948	9.16	0.09
1169800	Fully painted black gooseneck	0.625"	18"	049206116986	21.3	0.18
1170500	Fully painted black gooseneck	0.75"	24"	049206117051	35	0.33
1171000	Fully painted black gooseneck	0.75"	30"	049206117105	47	0.42
1171600	Fully painted black gooseneck	0.75"	36"	049206117167	52	0.49
1173000	Fully painted black gooseneck	1"	48"	049206117303	12	0.40

Utility Bar

The 13-inch Utility bar is designed for strength and durability. Its tempered steel construction makes pulling nails, prying, lifting, and scraping easier. Finally, nail slots are at both ends for easy nail removal.



Product No.	Description	Stock	Length	UPC No.
1167000	Utility Bar	0.25x 1.375"	13"	049206116702

Nail Puller

The Double End Nail Puller is a 11-inch long heat treated carbon steel for maximum strength. This tool has beveled nail slots on both ends to grasp any part of the nail including embedded and headless nails with its straight or rolling head claws.



Product No.	Description	Stock	Length	UPC No.	Pack Wt. (lbs)	Pack Cube
1165300	Double ended nail puller	0.625"	11"	049206116535	12	0.11

Ripping Chisel

The Ripping Chisels are made of hardened, tempered drop forged alloy steel. The chisels are used for prying and cleaning mortises, ripping out nails, and demolition.



Product No.	Description	Stock	Length	UPC No.	Pack Wt. (lbs)	Pack Cube
1165800	Straight nail puller	0.75"	18"	049206116580	25	1.64
1166100	Offset nail puller	0.75"	17"	049206116610	24.88	0.23

Molding Tool

The 10-inch molding tool is made of forged high carbon steel for strength and durability. This bar has beveled ripping chisels to endure removing nails with its claws. The claws are slotted and polished.



Product No.	Description	Stock	Length	UPC No.	Pack Wt. (lbs)	Pack Cube
1166600	Molding Tool	0.5"	10"	049206116665	8	0.07

Carpenter Bar

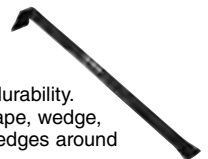
The 24-inch double claw carpenter bar is designed for strength and durability. Construction of this high carbon steel wrecking bar makes nail pulling, prying, and lifting easier.



Product No.	Description	Stock	Length	UPC No.	Pack Wt. (lbs)	Pack Cube
1167600	Double claw carpenter bar	-	24"	049206116764	35.79	0.29

Scraper

The Double Edge Scraper is a rigid, heavy use tool bred for scrapping, demolition and heavy prying jobs. This black tempered steel bar provides strength and durability. The 18-inch bar gives you two angles of attack to scrape, wedge, and dismantle objects with its polished sharp scrape edges around the curved and flattened ends.



Product No.	Description	Stock	Length	UPC No.	Pack Wt. (lbs)	Pack Cube
1173900	Scraper	0.25x 1"	18"	049206117396	51	0.33

Ames-TrueTemper

San Angelo Digging Bar

The San Angelo Digging Bar is used for digging and prying of dirt and large rocks. Manufactured from tempered steel for maximum strength and durability. The pencil point bar works in the toughest conditions. The diamond point is used for digging dirt and prying large rocks from post holes and ditches.



Product No.	Description	Stock	Length	UPC No.	Pack Wt. (lbs)	Pack Cube
1160300	17lb Pencil Point San Angelo Bar	1" hex	72"	049206116030	16.4	0.10
1175200	17lb Diamond Point San Angelo Bar	1" hex	72"	049206117525	16	0.11

Warehouse Bar

The Warehouse Bar is a 48-inch long tempered carbon steel shaft for maximum strength. This tool is used for moving pallets and loads in warehouses or trucks with its square round shank. This powder painted 11-pound bar is durable to withstand the constant moving of pallets onto trucks and warehouses.



Product No.	Description	Stock	Length	UPC No.	Pack Wt. (lbs)	Pack Cube
1169200	11lb warehouse bar	-	48"	049206116924	11	0.33

Chisel Slate Bar

The Chisel Slate Bar with a diamond point delivers blows to a target, causing the target to move, break or deform. The 60-inch long hexagon steel construction is a hefty 14-pounds for added strength and durability. This tool is heat treated carbon steel and it makes specific jobs easier.



Product No.	Description	Stock	Length	UPC No.	Pack Wt. (lbs)	Pack Cube
1169100	14lb diamond point chisel slate bar	1" hex	60" bent	049206116917	14	0.09

Claw Bar

The claw bar is an all-in one wrecking bar, claw bar, and hammer. This versatile tool is tempered for strength and durability to withstand precision nail plugging, prying, and hammering.



Product No.	Description	Stock	Length	UPC No.	Pack Wt. (lbs)	Pack Cube
1163100	All-in-one wrecking bar, claw car and hammer.	0.75"	30"	049206031357	-	-

Post Hole Digging Bar

The Post Hole Digging Bar is used for digging and prying of dirt and large rocks and tamping soil. The tamper head is used to level ground around fence posts and deck supports. Overall, this tool has a durable design, and is heat treated high quality carbon steel to withstand industrial use.



Product No.	Description	Stock	Length	UPC No.	Pack Wt. (lbs)	Pack Cube
1160000	16lb straight handle post hole digging bar	1"	71"	049206116009	15.94	0.34
1168000	11lb straight handle post hole digging bar	-	48"	049206116801	11	0.15

Telegraph Digging Bar

72-inch Telegraph Digging Bar digs holes for inserting a post. The sharp end is used to line up long posts. This digging bar has a tempered steel framework for strength and durability to withstand industrial use for decades.



Product No.	Description	Stock	Length	UPC No.	Pack Wt. (lbs)	Pack Cube
1168500	17lb Telegraph Digging Bar	1" hex	72"	049206116856	16.5	0.09

Warehouse Loading Bar

The Warehouse Loading Bar is a 60-inch long tempered carbon steel shaft for maximum strength. This tool is used for moving pallets and loads in warehouses or trucks with its square round shank. This powder painted 18-pound bar is durable to withstand the constant moving of pallets onto trucks and warehouses.



Product No.	Description	Stock	Length	UPC No.	Pack Wt. (lbs)	Pack Cube
1165600	18lb Warehouse Loading Bar	1.25"	60"	049206116566	17.5	0.29

Pinch Point Crowbar

The Pinch Point crow bar is a 36-inch long straight forged steel for maximum strength. The pinch point makes this tool easy to pry and move heavy objects. The typical uses for a pinch point crow bar include breaking up clay, concrete, and other hard materials.



Product No.	Description	Stock	Length	UPC No.	Pack Wt. (lbs)	Pack Cube
1161300	6lb Pinch Point Crowbar	1"	36"	049206116139	6	0.02
1161400	10lb Pinch Point Crowbar	1"	48"	049206116146	10	0.03
1160100	18lb Pinch Point Crowbar	1.25"	60"	049206116016	18	0.05
1162500	26lb Pinch Point Crowbar	1.5"	66"	049206116252	25	0.09

Wedge Point Crowbar

The wedge point crow bar is a straight forged heat treated carbon steel bar. This long handle is utilized to pry and move heavy objects with its wedge point. The typical uses for a wedge point bar include breaking up clay, concrete, and other hard materials.



Product No.	Description	Stock	Length	UPC No.	Pack Wt. (lbs)	Pack Cube
1162700	10lb wedge point crowbar	1"	48"	049206116276	9.75	0.03
1160200	18lb wedge point crowbar	1"	48"	049206116023	18	0.05
1163300	26lb wedge point crowbar	1.5"	66"	049206116337	25.5	0.10

Stripping Bar

The Stripping Bar with claw is drop forged and heated for superior strength during prying, digging, and tamping. It's hexagon steel construction has enhanced strength and durability. Double claw stripping bar, one chisel claw and one offset right angle claw can tear and remove floor tile and walls.



Product No.	Description	Stock	Length	UPC No.	Pack Wt. (lbs)	Pack Cube
1168600	5lb stripping bar with claw	.75" hex	36"	049206116863	5.3	0.47
1168800	12lb stripping bar with claw	1" hex	48"	049206116887	12	0.14
1169000	12lb stripping bar without claw	1.5"	48"	049206116900	12.25	0.21

Hand Tools

Ames-TrueTemper & Arrow®

Slate Bar

The Slate Bar with a diamond point delivers blows to a target, causing the target to move, break or deform. This tool is heat treated carbon steel and it makes specific jobs easier.



Product No.	Description	Stock	Length	UPC No.	Pack Wt. (lbs)	Pack Cube
1174400	11lb slate bar	1" hex	48"	049206117440	11	0.09
1174300	13lb slate bar	1" hex	60"	049206117433	13	0.09

Chisel Pry Bar

The Pinch Point pry bar is used for levering and prying in tight spaces. Manufactured from tempered steel for maximum strength and durability.



Product No.	Description	Stock	Length	UPC No.	Pack Wt. (lbs)	Pack Cube
1160900	1.5lb chisel pry bar	.625" hex	20"	049206116092	17.32	0.11
1161100	2.75lb chisel pry bar	.75" hex	24"	049206116115	30.25	0.17

Manhole Cover Bar

The Manhole Cover Bar is made from hexagon high grade steel with a hardened steel diamond point. This 24-inch long, 3.75-pound steel prevents bending. This tool can be utilized for prying loose conventional manhole covers.



Product No.	Description	Stock	Length	UPC No.	Pack Wt. (lbs)	Pack Cube
1175300	3.75lb manhole cover bar	.625" hex	24"	049206117532	33.74	0.47

Arrow®

T-50® Professional Heavy Duty Staple Gun

- Chrome finish
- All-steel construction
- High carbon hardened steel working parts
- Visual refill window
- Patented jam-proof mechanism
- Easy squeeze double-leverage operation

Loads (85) Arrow #T-50® staples only of .050 wire in 6 sizes; 1/4", 5/16", 3/8", 1/2", 9/16" and Ceiltile®. Monel & stainless steel rust proof staples available. Used extensively by building contractors, home do-it-yourselfers and specialty trade applicators for stapling insulation, ceiling tile, window screening, upholstery, carpet padding, fence wire, metal lath, cornerite and 1,001 other jobs ranging from light to heavy duty work.



ET50R.E.D™

Staple Gun Tacker

- High impact composite plastic
- Durable and ergonomic
- Precision fastener control resists jams
- Bottom load
- Contact safety mechanism for safe operation
- Ergonomic soft rubber grip
- LED guide light
- Depth of drive control
- Rotating belt hook - convenient carrying - packed in blow molded case

Used by building contractors, do-it-yourselfers and specialty trade applicators for tacking insulation, flooring, roofing, house wrap, upholstery, screening, trim/molding, and general repairs. Uses 6 T50® staple sizes: 1/4" - 9/16".



Hammer Tackers

Arrow's family of rugged, American-made Hammer Tackers feature: All steel construction, high carbon hardened steel working parts, patented jam-proof mechanisms, precision-locked rear loading, a retractable striking edge & specially designed power grip handles. Every Arrow Hammer Tacker is finished in durable chrome plating to withstand the bumps and scratches of daily use.

HT65™ Extra Heavy Duty

Loads full strip (52) Arrow HT65 staples only, of .062 wire with 1" crown and 3/4" leg length.

HT30™

Loads 2 full strips (260) Arrow T30 and T32 1/4", 5/16" and T30 3/8" of .030 wire staples.

HT50P™ Heavy Duty

Loads 2 full strips (170) Arrow T50 staples of .050 wire in 3 sizes: 5/16", 3/8" and 1/2".



T59™ Wiring Tacker

Uses UL Listed 5911 Insulated Staples

Safety, speed and efficiency are built-in performance factors that have made Arrow Staple Gun Tackers the preferred fastening tools of professional wire and cable installers in every field. 5 precision-made Arrow models, using a total of 18 different staple types, fit a wide range of wire and cable diameters for safer, snuggler and neater fastening.

- All-steel construction
- Grooved guide
- Patented, jam-proof mechanism
- Shortspan, easy compression handle
- Chrome finish
- Grooved driving blade



No. 5911 Insulated Staples (300 Per Box) for use with T59 Wire Gun Tacker

Item #	Description	Height (in)	Width (in)	Per Ctn. (Bxs)
591168	Insulated Staple/Clear	1/4	1/4	40
591168BL	Insulated Staple/Black	1/4	1/4	40
591188	Insulated Staple/Clear	1/4	5/16	40
591188BL	Insulated Staple/Black	1/4	5/16	40
591188BLSS	Stainless Steel Insulated Staple/Black	1/4	5/16	40
591189	Insulated Staple/Clear	5/16	5/16	40
591189BL	Insulated Staple/Black	5/16	5/16	40
591189BLSS	Stainless Steel Insulated Staple/Black	5/16	5/16	40
591189SS	Stainless Steel Insulated Staple/Clear	5/16	5/16	40

P22™ Plier-Type Stapler

Designed for reaching into hard-to-get-at places for stapling from any position or angle.

- All steel construction
- Chrome finish
- Hand guide loop
- Cam actuated double leverage
- Deep throat
- Easy-to-get-at mechanism

Loads (150) Arrow P22 staples only, in 2 sizes: 1/4" and 5/16". Used by dry cleaners, florists, supermarket check-out counters, etc., for all types of bagging, tagging, sealing, labeling and numerous other applications.



P35™ Heavy Duty Plier-Type Stapler

Same design and rugged construction as Model P22 with more powerful drive for accommodating tougher materials.

Loads (85) Arrow P35 staples only, wedge-point, of .050 wire in 2 sizes: 1/4" and 3/8".

Widely used in stores, plants, workshops and shipping rooms for sealing kraft, burlap and jiffy bags; rug edge binding; fastening extended carton flaps and many other heavy production jobs in specialty markets.



Arrow® & Channellock®

P35S™ Heavy Duty Spear-Pointed Plier Type Stapler

Same as model P35, except with spear-pointed anvil arm for penetrating edges of corrugated container for sealing from within.



TR400™

All Purpose Trigger Feed

- Heavy duty circuitry
- Non-drip nozzle
- Built-in safety stand
- Contoured design for perfect balance
- Hi-impact/Hi-temp housing

This versatile glue gun bonds almost anything permanently in 60 seconds without the need of mixing or clamping. The ideal instrument for repairs, hobbies, arts & crafts and much more. Uses all Purpose, White Caulk/Sealer & Slow Set Glue stix.



TR550 Professional Automatic Lever Feed

- Clutch mechanism prevents glue buildup
- Check valve controls glue flow
- Interchangeable nozzle
- Built-in drip tray/stand
- High volume melt chamber for fast and steady even application
- Solid state P.T.C. heating system develops heat quicker and holds temperature for smooth consistent bonding
- Re-usable storage box
- Heavy duty circuitry
- 6 foot cord



Hot Melt Glue Stix

All Purpose Clear - for Crafts, Hobbies and General Repairs

For woodworking, ceramics, leather, canvas, fabrics, cardboard, plastics, metal, etc. Press surfaces together within 15 seconds. Sets in 30 to 60 seconds. Available in packages of 6 - 4" sticks to a card (AP5), packages of 12 - 10" sticks (AP10), bulk packages of 24 - 4" sticks (BAP5), 25 lb. - 4" bulk (AP1000) and 25 lb. - 10" bulk (AP2000).



CS7™ White Caulk/Sealer/Glue - for Caulking and Sealing

For windows, walls, tubs, boats, etc. Sets in 30 to 60 seconds. Available 6 - 4" sticks to a card.

SS6™ Slow Set/Woodworking - Allows More Time for Lineup Of Larger Areas

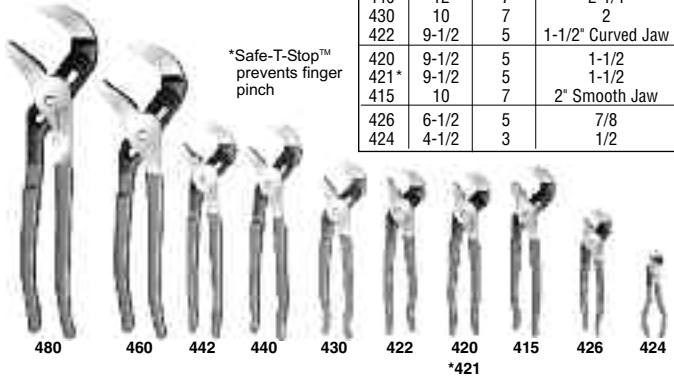
For wood, metal, plastics, leather, fabrics, etc. Sets in 90 to 120 seconds. Available 6 - 4" sticks to a card and 24 - 4" sticks (BSS6) Slow Set/Woodworking.

Channellock®

BigAzz® Tongue and Groove Plier

- Right angle teeth grip in all directions.
- Undercut Tongue and Groove won't slip.
- PermaLock Fastener eliminates nut and bolt failure.
- Reinforcing edge that minimizes stress breakage.
- ChannelLock Blue comfort grips.
- Big as the job needs.
- The biggest pliers on the planet.

Pt. No.	Length (in)	Adjustment	Cap. (in)
480	20-1/4	12	5-1/2
460	16	8	4-1/4
442	12	7	2-1/4" Curved Jaw
440	12	7	2-1/4
430	10	7	2
422	9-1/2	5	1-1/2" Curved Jaw
420	9-1/2	5	1-1/2
421*	9-1/2	5	1-1/2
415	10	7	2" Smooth Jaw
426	6-1/2	5	7/8
424	4-1/2	3	1/2



Nutbuster™

- Right angle teeth grip in all directions.
- Reinforcing edge that minimizes stress breakage.
- Safe-T-Stop™ prevents finger pinch.
- Double Tongue and Groove won't slip.
- PermaLock Fastener eliminates nut and bolt failure.
- ChannelLock Blue comfort grips.

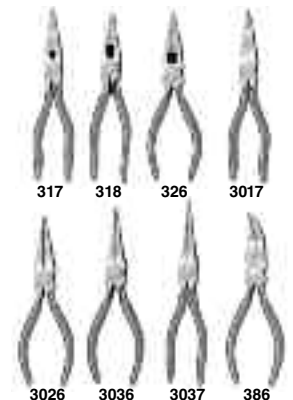


Pt. No.	Length (in)	Adjustment	Cap. (in)
414	14	6	2
410	9-1/2	4	1-1/8
307	7	-	5/8

Long Nose Plier

- Perfectly mated cutter, heat-treated to hold its edge.
- Crosshatching on jaws.
- Polished high carbon drop-forged steel.
- Channel Lock Blue comfort grips.

Pt. No.	Length (in)	With/Without Side Cutter
317	7-1/2	With Side Cutter
318	8-3/8	With Side Cutter
326	6	With Side Cutter
3017	7-1/2	Without Side Cutter
3026	6	Without Side Cutter
3036	6	Without Side Cutter
3037	7-1/2	Without Side Cutter
386	5-1/2	Without Side Cutter



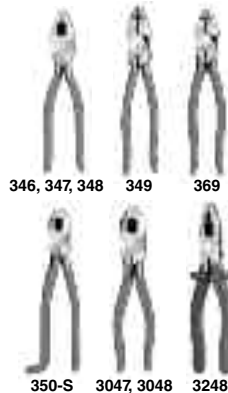
Hand Tools

Channellock® & Apex Tool Group - Lufkin

Linemen's Plier

- Perfectly mated cutter, heat-treated to hold its edge.
- Polished high carbon drop-forged steel.
- Useful crushing area.
- ChannelLock Blue comfort grips.

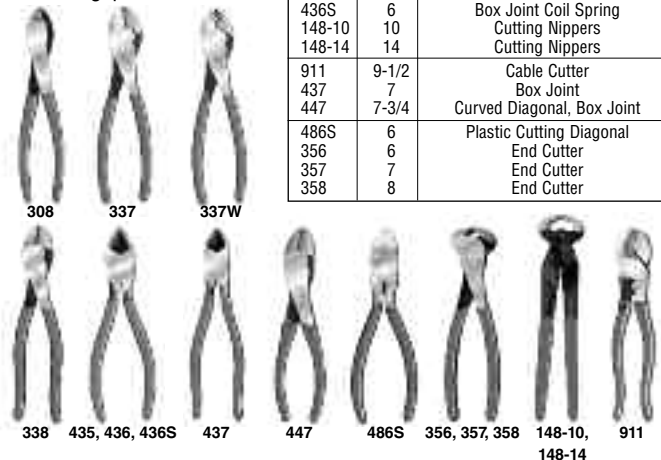
Pt. No.	Lgth. (in)	Type
346	6	Rounded Nose
347	7	Rounded Nose
348	8-1/2	Rounded Nose
349	9	Wire Master High Leverage Plier
369	9	High Leverage/Rounded Nose
350-S	9	Ironworker's Plier Coiled Spring
3047	7	Bevel Nose
3048	8-1/2	Bevel Nose
3248	8-1/2	With Cutter and Crimper



Cutting Plier

- Perfectly mated cutter, heat-treated to hold its edge.
- Polished high carbon drop-forged steel.
- ChannelLock Blue comfort grips.

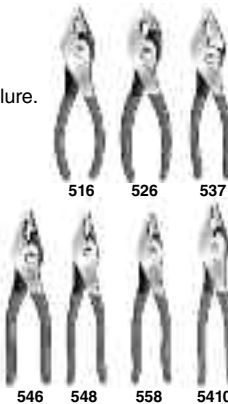
Pt. No.	Lgth. (in)	Type
308	8	Short Nose Shearing Plier
337	7	Lap Joint
337W	7	Wiring Plier, Cuts, Strips Insulation
338	8	Lap Joint
435	5	Box Joint
436	6	Box Joint
436S	6	Box Joint Coil Spring
148-10	10	Cutting Nippers
148-14	14	Cutting Nippers
911	9-1/2	Cable Cutter
437	7	Box Joint
447	7-3/4	Curved Diagonal, Box Joint
486S	6	Plastic Cutting Diagonal
356	6	End Cutter
357	7	End Cutter
358	8	End Cutter



Slip Joint Plier

- Wire Cutting shear.
- Polished high carbon drop forged steel.
- PermaLock Fastener eliminates nut and bolt failure.
- ChannelLock Blue comfort grips.

Pt. No.	Lgth. (in)	Description
516	6	Thin nose, Wire Cutting Shear
526	6	Popularly priced, Wire Cutting Shear
537	7	Precision Tool with Fine Side Cutter
546	6	Heavy-duty Wire Cutting Shear
548	8	Heavy-duty Wire Cutting Shear
558	8	Heavy-duty Wire Cutting Shear
5410	10	Heavy-duty Wire Cutting Shear



Concretors' Nipper

- Precision matched jaws.
- High carbon drop-forged steel.
- Perfectly mated cutter heat-treated to hold its edge. Hardness HRC 58-60.
- ChannelLock Blue comfort grips.



Pt. No.	Lgth. (in)	Jaw Width (in)
35-220P	9	15/16
*35-220	9	15/16
35-250P	10	1-1/16
*35-250	10	1-1/16
35-280P	11	1-1/16
*35-280	11	1-1/16
35-300P	12	1-1/16
*35-300	12	1-1/16

*ChannelLock Blue Comfort Grips.

Apex Tool Group-Lufkin

50 Footer

- Blade graphics simplify layout work
- 1" wide steel blade, unique among 50' tape measures; allows user to push the blade for one-man use
- 7-1/2" stand-out just like a power tape
- Durable ASB case in Hi-Viz® yellow (EL50) or orange is easy to find on the job site
- Ribbed insert makes easy to hold on to
- Virtually unbreakable Quad Hook™; fwith our rivets for extra strength
- Convenient removable belt clip

Cat. No.	Blade Width (in)	Blade Length (ft)
EL50	1	50
EL50C	1	50
EL50D	1	50' Engineer's
EL15CME	1	50
EL15M	25mm	15m



Power Return Tapes - Series 2000

- Case designed to fit perfectly in the hand
- Lightweight, high strength chrome finished case
- Fits easily into most tape holsters
- Bright yellow blade has clear easy-to-read numerals
- Toggle lock is positioned for convenient operation and holds the blade securely in any position
- Virtually unbreakable Quad Hook; with four rivets for extra strength.
- Cushioned blade return
- Removable belt clip
- All shelf pack power tapes are carded

Cat. No.	Blade Width (in)	Blade Length (ft)
2133	1	33
2133D	1	33' Engineer's
2125	1	25
2325	3/4	25
2325D	3/4	25' Engineer's
2316	3/4	16
2312	3/4	12
2312D	3/4	12' Engineers
2212	1/2	12



Power Return Tapes - Series 1000

- Hi-Viz® case - easy to find on the job
- Case designed to fit perfectly in the hand
- Lightweight, high strength case
- Fits easily into most tape holsters
- Bright yellow blade has clear easy-to-read numerals
- Toggle lock is positioned for convenient operation and holds the blade securely in any position
- Cushioned blade return
- Removable belt clip

Cat. No.	Color	Blade Width (in)	Blade Length (ft)
1325	Black	3/4	25
1316	Black	3/4	16
1312	Black	3/4	12



Hand Tools

Apex Tool Group - Lufkin

Mezurall®

- Chrome plated case (except for the Y8210 & Y8212 which have a black case)
- Available in widths of 1/2" and 3/4" and up to 12' in length
- Yellow clad blade
- Power retraction operation
- Belt clip

Cat. No.	Blade Width (in)	Blade Length (ft)
W928	1/2	8
W9210	1/2	10
W9212	1/2	12
W9312	3/4	12



Hi-Viz® Universal Lightweight

- High impact polystyrene case; available in Hi-Viz® orange, green or yellow
- Yellow clad blade .005"/0.13mm thick
- Easy wind nylon drum
- Easy-to-read black and red markings
- Hook ring is retained neatly in the contoured mouth of the case
- Removable belt clip
- Metric-English tape measures have a 2-sided end hook for use with either scale

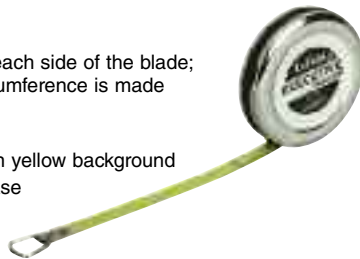
Cat. No.	Color	Blade Width (in)	Blade Length (ft)
50	Orange	3/8"	50'
100L	Orange	3/8"	100'
HV15CME	Orange	3/8" (10mm)	50' (15m)
HV30CME	Orange	3/8" (10mm)	100' (30m)
PS100S	Orange	3/8"	100'



Pocket Tapes - Executive® Diameter

- Designed for measuring diameters of pipe, cable, tire or any circular object
- Polished chrome case
- Zero falls in the same place on each side of the blade; conversion from diameter to circumference is made simply by turning the blade
- Yellow clad blade
- Easy-to-read bold graduations on yellow background
- Spring action returns blade to case

Cat. No.	Blade Width (in)	Blade Length (ft)
W606P	1/4	6



Banner

- Professional tradesman's quality
- Rugged, vinyl-covered steel case
- Large easy action winding drum and friction washers
- Nylon rollers guide the tape smoothly in and out of case
- Yellow clad tape; available in 3/8" / 10mm width and .008" / 0.2mm thick
- Bold graduations with black and red numbers for accurate measuring
- "H" prefix denotes product blade is fitted with a folding hook ring

Cat. No.	Blade Width (in)	Blade Length (ft)
HW223ME	3/8	50
HW226	3/8	100



Fiberglass Tapes - Hi-Viz Linear Reel

- Lightweight open reel is easy to handle and rewind; line does not collect dirt in case
- Hi-Viz orange case

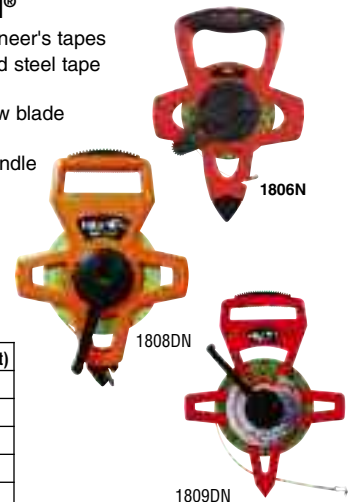
Cat. No.	Blade Width (in)	Blade Length (ft)
1707	1/2	150
703	1/2	50
703D	1/2	50
706D	1/2	100
706L	1/2	100



Hi-Viz® Atlas® Ny-Clad®

- 1830DMM and 1850DMM are Engineer's tapes
- Nominal thickness .022" Nylon-Clad steel tape has wear resistant nylon
- Easy-to-read 1/2"/13mm wide yellow blade in Hi-Viz® orange case
- Lightweight open reel is easy to handle and rewind
- 1806 and 1808 graduated feet and inches to 1/8ths
- 1830MM and 1850MM graduated to millimeters, numbered in millimeters and meters

Cat. No.	Blade Width (in)	Blade Length (ft)
1806N	1/2	100
1806DN	1/2	100
1808N	1/2	200
1808DN	1/2	200
1809DN	1/2	300



Folding Wood Rules - Red End® Series

- First choice of carpenters and other professional craftsmen
- Boxwood finish wood sections are 25% thicker than regular wood rules, withstands daily usage
- Bold red & black markings contrast sharply against white or natural finish background
- Clear, abrasive-resistant coating protects markings
- Long wearing, riveted lock joints eliminate end play and retain accuracy
- Brass plated end clasps and strike plates prevent wear

Red End® Extension

- 6' and 8' wood rules available
- Graduated slide rule extends up to 6"
- Slide rule runs under friction in T-slot and stops at each end to prevent slide from falling out
- X46X has two 6" extension slides; an extension is ready for use on the first section
- HX46 has hook; zero falls at inside of hook for distance measuring
- Marked both sides and edges
- X46F has flat, inside markings; numbering begins on inside of rule
- Graduated to 1/16ths of an inch, 16" stud centers in red, regular outside markings

Cat. No.	Blade Width (in)	Blade Length (ft)
X46	5/8	6
HX46	5/8	6
X48	5/8	8
X46F	5/8	6



Hand Tools

Apex Tool Group - Lufkin & Nicholson

Red End®

- Marked on both sides both edges
- Graduated to 1/16ths both edges; 16" stud centers marked in red
- Regular outside markings
- 066F has inside markings; numbering begins on inside of rule; measurement lies close to the work

Cat. No.	Blade Width (in)	Blade Length (ft)
066	5/8	6
066F	5/8	6



Red End® Engineer's

- 066DM and 1066DM graduated in millimeters and feet, 1/10ths and 1/100ths
- 066D and 1066D graduated in feet, 1/10ths and 1/100ths of feet
- Red foot figures
- Regular outside markings in feet, inches and 1/16ths
- Decimal points on engineer's scale prevent reading errors

Cat. No.	Blade Width (in)	Blade Length (ft)
1066D	5/8	6
1066DM	5/8	6.5

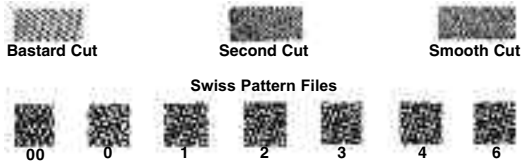


APEX Tool Group - Nicholson

File Terminology

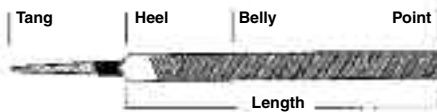
- Work to be accomplished, roughing or finishing, will determine type of teeth and coarseness for each application
- Most American pattern files are available with 3 grades of cut: bastard-cut, second-cut and smooth-cut
- Swiss pattern files are available in seven cuts: No. 00, 0, 1, 2, 3, 4 and 6
- The degree of coarseness is greater in longer files, but differences between bastard, second and smooth are proportionate

Coarseness:



- Length is measured exclusive of tang, from point to heel, unless specified otherwise
- Desired stroke length, type of material and size will determine length required

Length:



- Area to be filed will determine specific cross-section (round, square, flat, etc.) to be used

Shape:



Kinds of Teeth:

Single-cut

- Single set of parallel, diagonal rows of teeth
- Single-cut files are often used with light pressure to produce a smooth surface finish or to put a keen edge on knives, shears or saws



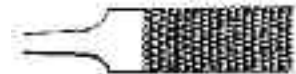
Double-cut

- 2 sets of diagonal rows of teeth
- Second set of teeth cut in opposite diagonal direction and on top of the first set
- First set of teeth is known as the overcut, second is known as upcut
- Upcut is finer than overcut
- Double-cut file is used with heavier pressure than the single-cut and removes materials faster from the work piece



Rasp-cut

- Series of individual teeth which are formed by a single-pointed tool
- Produces a rough cut that is used primarily on wood, hooves, aluminum and lead



Magicut

- Single cut teeth divided by angular serrations into shorter cutting edges, which free themselves readily from chips and perform roughing and smoothing at the same time



Curved-cut

- Teeth arranged in curved contours across the file face
- Curved-cut file is normally used in automotive body shops for smoothing body panels



AMERICAN PATTERN FILES:

Aluminum Files-Type "A" Flat

- Special tooth construction eliminates clogging when filing aluminum
- Flat shape
- Double-cut
- All sizes have same number of teeth per inch
- Smooth finish obtained by using shearing cut toward left

Cat. No.	Length (in)
00001	6
00024	8
00047	10
00070	12

Aluminum Files-Type "A" Half Round

- Special tooth construction eliminates clogging when filing aluminum
- Half-round shape
- Double-cut
- All sizes have same number of teeth per inch
- Smooth finish obtained by using shearing cut toward left

Cat. No.	Length (in)
00113	6
00136	8
00161	10
00187	12

Cabinet Files

- Used by cabinetmakers and woodworkers
- Files are half-round in section
- Teeth are slightly finer than those of wood files
- Radius is larger and thinner than regular half round files

Cat. No.	Length (in)
01232	8
01260	10

Cantsaw Files

- Used for sharpening crosscut saws with "M" teeth, circular saws and saw teeth with less than 60-degree angle
- Triangular shape
- Single-cut
- Edges set and cut
- Same number of teeth per inch as mill bastard files of equivalent length
- Regularly supplied with "cut back" unless "safe backs" specifically ordered

Cat. No.	Length (in)
Cut Back	
01327	6
01387	8
01418	10
Safe back	
01448	6

Apex Tool Group - Nicholson

Chain Saw Files-Round Smooth

- Round shape
- Smooth-cut
- 6" files have a straight tang

Cat. No.	Length (in)	Dia. (in)	Cat. No.	Length (in)	Dia. (in)
01576	6	1/8	01798	8	13/64
01590	6	1/8	01876	8	7/32
01609	6	5/32	01888	8	7/32
01630	6	5/32	01964	8	1/4
01891	8	5/32	01974	8	1/4
01714	8	5/32	02082	8	5/16
01753	8	3/16	02150	8	3/8
01765	8	3/16			

Chain Saw Files - Round Double Cut

- Round shape
- Double-cut
- European style, design and size
- More aggressive sharpening

Cat. No.	Length (in)	Dia. (in)
01751	8	3/16
01811	8	13/64
01874	8	7/32
01962	8	1/4

Crosscut-Great American

- Used for sharpening saws of Great American type and varieties of crosscut saws
- Rounded back and thin edge are cut
- Same number of teeth per inch as mill bastard files of equivalent length
- Rounded back used to deepen rounded gullets of saw teeth
- Triangular shape
- Single-cut

Cat. No.	Length (in)
02401	6
02435	8
02465	10

Flat Files

- Used by machinists, machinery builders, ship engine builders, repairman and others who require rapid removal of metal
- Rectangular in cross section and taper slightly towards point in width
- Double-cut on sides, single-cut on edges
- American pattern, available in bastard, second and smooth-cut

Bastard Cut #	Second Cut #	Smooth Cut #	Length (in)
03367	03401	03434	4
03467	03500	03533	6
03566	03599	03632	8
03665	03698	03731	10
03764	03797	03830	12
03863	03896	03929	14
03980	-	-	16

Half Round Files

- Used on concave, convex and flat surfaces
- Rounded on 1 side, flat on opposite
- Backs of all half-round bastard files are double-cut
- Backs of all half-round second-cut files longer than 6" are double-cut
- Backs of all 4 and 6" files are single-cut
- Backs of all half-round smooth files are single-cut
- Flat sides of all half-round files are double-cut
- Pipeliner file (#05190) is single-cut on back and flat sides

Bastard Cut #	Second Cut #	Smooth Cut #	Length (in)
04695	04729	04762	4
04795	04828	04861	6
04896	04927	04960	8
04995	05026	05059	10
05094	05125	05158	12
05194	05225	05258	14
05190	Pipeliner	-	14
05307	-	-	16

Hand Files

- Rectangular shape
- Double-cut
- 1 safe edge
- Same coarseness as flat files of corresponding lengths

Bastard Cut #	Second Cut #	Smooth Cut #	Length (in)
05652	05675	05698	4
05738	05771	05804	6
05853	05886	05919	8
05968	06001	06034	10
06084	06117	06150	12

Knife Files

- Used primarily by tool and die makers with work having acute angles
- Triangular shape
- Double-cut on sides, single-cut on sharp edge
- Knife files are supplied with safe backs

Bastard Cut #	Second Cut #	Smooth Cut #	Length (in)
06711	06742	06773	4
06804	06836	06867	6
06898	06930	06961	8
06992	07023	07054	10
07085	-	-	12

Long Angle Lathe Files-Bastard

- Rapid, free cutting files designed for lathe filing
- Rectangular shape
- Single-cut
- Safe edges to protect shoulder or dog
- Made on flat blanks in bastard-cut
- Cut faster than regular mill files and leave smoother finish

Cat. No.	Length (in)
07657	10
07688	12
07719	14

Mill Files

- Used for sharpening mill or circular saws
- Also for draw-filing and finishing metals
- Rectangular shape
- Single-cut on sides and edges
- 2 square edges
- All sizes taper slightly in width

Bastard Cut #	Second Cut #	Smooth Cut #	Length (in)
08243	-	08306	4
08354	08385	08416	6
08497	08529	08560	8
08642	08673	08704	10
08737	08768	08799	12
08832	-	08894	14
08925	-	-	16

Round Files

- Primarily used to file circular openings or concave surfaces
- Round shape
- All 4, 5, 6, 8, 10, 12" files are single-cut
- 14" bastard file is double-cut
- Tapered slightly toward point

Bastard Cut #	Second Cut #	Smooth Cut #	Length (in)	Dia. (in)
11526	11559	11592	4	1/8
11637	11665	-	5	3/16
11716	11748	11781	6	1/4
11904	11936	11969	8	5/16
12019	12051	12084	10	3/8
12134	12166	12199	12	1/2
12248	12282	-	14	5/8

Square Files

- Used on slots, keyways and general surface filing
- Square shape
- Double-cut
- Tapered slightly towards point
- Larger sizes frequently preferred to corresponding flat files because of heavier section and 4 filing surfaces

Bastard Cut #	Second Cut #	Smooth Cut #	Length (in)	Dia. (in)
12790	12824	12857	4	5/32
12967	13000	13033	6	1/4
13081	13114	13147	8	5/16
13196	13229	13262	10	3/8
13310	13343	13376	12	1/2
13425	-	-	14	5/8

Taper Files-Regular

- Triangular shape
- Edges set and cut for filing gullets between saw teeth
- Tapers slightly towards the point

Cat. No.	Length (in)
13727	4
13750	4-1/2
13772	5
13807	6
13841	7
13875	8
13930	10

Taper Files-Slim

- Triangular shape
- Edges set and cut for filing gullets between saw teeth

Cat. No.	Length (in)
14106	4
14139	4-1/2
14162	5
14224	6
14255	7
14290	8
14341	10

Hand Tools

Apex Tool Group - Nicholson

Taper Files-Extra Slim

- Triangular shape
- Edges set and cut for filing gullets between saw teeth

Cat. No.	Length (in)
14547	4
14579	4-1/2
14599	5
14665	6
14698	7
14729	8

Taper Files-Double Extra Slim

- Triangular shape
- Edges set and cut for filing gullets between teeth

Cat. No.	Length (in)
14942	4
14992	5
15024	6
15056	7
15087	8

Taper Files-Double-Cut Saw Files (Machine File)

- Designed and recommended primarily for use in saw filing machines
- Triangular shape
- Double-cut

Cat. No.	Type	Length (in)
15334	Taper	6
15395	Slim taper	6
15418	Slim taper	7
15460	Extra slim taper	6
15481	Extra slim taper	7
15524	Dbl. Extra slim taper	6
15545	Dbl. Extra slim taper	7

Three Square Files

- For general use by machinists for filing internal angles more acute than right angles, clearing out square corners and filing taps and gutters
- Triangular shape
- Double-cut
- Sharp corners are slightly set and cut
- Cut to the point

Bastard Cut #	Second Cut #	Smooth Cut #	Length (in)
15803	15825	15848	4
15925	15958	15991	6
16036	16069	16102	8
16147	16180	16213	10
16258	16291	16315	12

AMERICAN PATTERN RASPS: Wood Files (Coarse)-Half Round

- Specially coarse teeth for use on wood
- Half-round
- Made in same section and size as half-round file

Cat. No.	Length (in)
17505	10

Cabinet Rasps

- Used by cabinetmakers and woodworkers
- Half-round
- Single-cut on edges
- Curved side of rasps similar to half-round rasps but has larger radius

Regular (second cut) #	Smooth Cut #	Length (in)
17615	-	8
17683	17718	10
17751	17786	12

Wood Rasps-Flat Bastard

- Flat shape
- Bastard-cut

Cat. No.	Length (in)
19136	10

Wood Rasps-Half Round

- Used by woodworkers, hobbyists and plumbers
- Half-round shape
- Single-cut file teeth on edge
- For use on wood and soft metals

Bastard Cut #	Second Cut #	Length (in)
19361	-	6
19394	19575	8
19427	19593	10
19460	19611	12
19493	-	14

Wood Rasps-Half Round

- Used by woodworkers, hobbyists, and plumbers
- Half-round shape
- Single-cut file teeth on edge
- For use on wood and soft metals
- Carded

Bastard Cut. #	Length (in)
21878	8
21749	8

SWISS PATTERN:

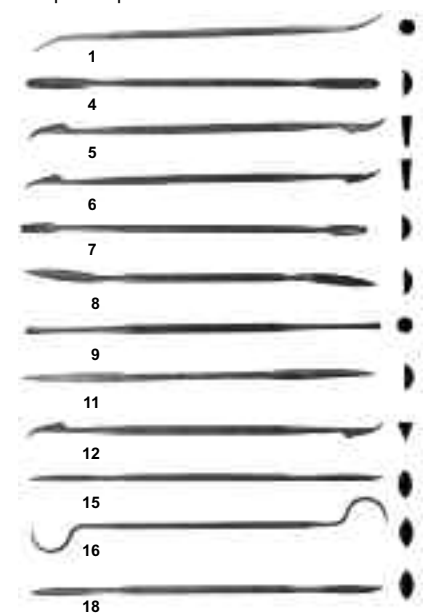
3-1/2" Die Sinker's Files

- Designed for use by die sinkers in dressing and finishing dies of all kinds
- Made in 12 shapes
- 3-1/2", 89mm long
- Assorted sets of 12 files supplied in plastic pouches

Cat. No.	Shape	Cut No.	Inch x Inch
35807	-	0	Assorted Set
35812	-	2	Assorted Set
35817	Flat	0	7/32 x 7/64
35823	Flat	2	7/32 x 7/64
35829	Auriform	0	17/64 x 7/64
35835	Auriform	2	17/64 x 7/64
35841	Oval (1 Sharp Edge)	0	17/64 x 7/64
35847	Oval (1 Sharp Edge)	2	17/64 x 7/64
35853	Oval	0	17/64 x 7/64
35859	Oval	2	17/64 x 7/64
35865	Half round	0	1/4 x 3/32
35871	Half round	2	1/4 x 3/32
35877	Round	0	1/8
35883	Round	2	1/8
35889	Knife (Safe back)	0	1/4 x 5/64 x 1/64
35895	Knife (Safe back)	2	1/4 x 5/64 x 1/64
35901	Flat (crochet) (2 round edges)	0	9/32 x 7/64
35907	Flat (crochet) (2 round edges)	2	9/32 x 7/64
35913	Warding	0	13/64 x 3/32
35919	Warding	2	13/64 x 3/32
35925	Lozenge	0	13/64 x 5/32
35931	Lozenge	2	13/64 x 5/32
35937	Square	0	1/8
35943	Square	2	1/8
35949	Three Square	0	11/64
35955	Three Square	2	11/64

6-1/2" Die Skinner's Riffilers

- Used by tool and die makers, jewelers, model makers and home craftsman
- Made in shapes as illustrated
- Made in approximately 6-1/2" lengths and in cuts 0, 2 and 4
- Each riffiler identified by number
- Assorted sets of 12 files are supplied in plastic pouches



Cat. No.	Style No.	Cut No.
35961	Assorted	0
35966	Assorted	2
35971	Assorted	4
35976	1	0
35982	1	2
35988	1	4
35994	4	0
36000	4	2
36006	4	4
36012	5	0
36018	5	2
36024N	5	4
36030	6	0
36036	6	2
36042	6	4
36048	7	0
36054	7	2
36060	7	4
36066	8	0
36072	8	2
36078	8	4
36084	9	0
36090	9	2
36096	9	4
36102	11	0
36108	11	2
36114	11	4
36120	12	0
36126	12	2
36132	12	4
36138	15	0
36144	15	2
36150	15	4
36156	16	0
36162	16	2
36168	16	4
36174	18	0
36180	18	2
36186	18	4

Apex Tool Group - Nicholson & H.K.Porter

Needle Files

- Used primarily by jewelers, die makers, watchmakers and fine toolmakers
- Available in 12 shapes, round handles
- Knurled handles
- In 4" lengths, oval is furnished instead of crossing
- Come with protective plastic pouches when purchased in assortments

Barrette	Half Round
Equaling	Round
Flat	Sitting
Marking	Square
Joint	Three Square
Knife	Crossing

Cat. No.	Lgth. (in)	Cut
Assortment		
37029	4	0
37035	4	2
Barrette		
37277	4	0
37234	4	2
Equaling		
37249	4	0
37256	4	2
Flat		
37109	4	0
37116	4	2
Half round		
37081	4	0
37088	4	2
Joint (2 round edges)		
37305	4	0
37312	4	2
Knife (safe back)		
37165	4	0
37172	4	2
Marking (safe on flat side)		
37361	4	0
37368	4	2
Oval		
37137	4	0
37144	4	2
Round		
37053	4	0
37060	4	2
Slitting		
37333	4	0
37340	4	2
Square		
37193	4	0
37200	4	2
Three square		
37221	4	0
37228	4	2
Assortment		
37392	5-1/2	0
37398	5-1/2	2
37404	5-1/2	4
Barrette		
37640	5-1/2	0
37647	5-1/2	2
37654	5-1/2	4
Crossing		
37500	5-1/2	0
37507	5-1/2	2
37514	2-1/2	4

Cat. No.	Lgth. (in)	Cut
Equaling		
37612	5-1/2	0
37619	5-1/2	2
37626	5-1/2	4
Flat		
37472	5-1/2	0
37479	5-1/2	2
37486	5-1/2	4
Half round		
37444	5-1/2	0
37451	5-1/2	2
37458	5-1/2	4
Joint (2 round edges)		
37668	5-1/2	0
37675	5-1/2	2
37682	5-1/2	4
Knife (safe back)		
37528	5-1/2	0
37535	5-1/2	2
37542	5-1/2	4
Marking (safe on flat side)		
37724	5-1/2	0
37731	5-1/2	2
37738	5-1/2	4
Round		
37416	5-1/2	0
37423	5-1/2	2
37430	5-1/2	4
Slitting		
37696	5-1/2	0
37703	5-1/2	2
37710	5-1/2	4
Square		
37556	5-1/2	0
37563	5-1/2	2
37570	5-1/2	4
Three square		
37584	5-1/2	0
37591	5-1/2	2
37598	5-1/2	4
Assortment		
37755	6-1/4	0
37761	6-1/4	2
37767	6-1/4	4
37773	6-1/4	6
Barrette		
38003	6-1/4	0
38010	6-1/4	2
38017	6-1/4	4
38024	6-1/4	6

Cat. No.	Lgth. (in)	Cut
Crossing		
37863	6-1/4	0
37870	6-1/4	2
37877	6-1/4	4
37884	6-1/4	6
Equaling		
37975	6-1/4	0
37982	6-1/4	2
37989	6-1/4	4
37996	6-1/4	6
Flat		
37835	6-1/4	0
37842	6-1/4	2
37849	6-1/4	4
37856	6-1/4	6
Half round		
37807	6-1/4	0
37814	6-1/4	2
37821	6-1/4	4
37828	6-1/4	6
Joint (2 round edges)		
38031	6-1/4	0
38038	6-1/4	2
38045	6-1/4	4
38052	6-1/4	6
Knife (safe back)		
37891	6-1/4	0
37898	6-1/4	2
37905	6-1/4	4
37912	6-1/4	6
Marking (safe on flat side)		
38087	6-1/4	0
38094	6-1/4	2
38101	6-1/4	4
38108	6-1/4	6
Round		
37779	6-1/4	0
37786	6-1/4	2
37793	6-1/4	4
37800	6-1/4	6
Slitting		
38059	6-1/4	0
38066	6-1/4	2
38073	6-1/4	4
38080	6-1/4	6
Square		
37919	6-1/4	0
37926	6-1/4	2
37933	6-1/4	4
37940	6-1/4	6
Three square		
37947	6-1/4	0
37954	6-1/4	2
37961	6-1/4	4
37968	6-1/4	6

Metal Ferruled Wooden Handles

- Made from seasoned white birch with nickel-plated ferrules
- Shellac finish
- Handles have strong metal ferrules



Cat. No.	Handle No.	Type
21470	000	-
21471	00	-
21476	0	-
21528	0	E
21485	1	-
21526	1	D
21494	2	-
21524	2	C
21503	3	-
21522	3	B
21511	4	-
21520	4	A

Item	Size -	4"	5"	6"	7"	8"	9"	10"	
Taper		4	3	3	3	2	1	1	
Slim		4	4	4	4	3	-	2	
X Slim		4	4	4	4	4	-	-	
XX Slim		-	4	4	4	4	-	-	
Item	Size -	8 x 3/16	8 x 7/32	8 x 1/4	8 x 5/16	8 x 3/8			
Chainsaw		4	4	4	4	3			
Item	Size -	4"	6"	8"	10"	12"	14"		
Mill		3	2	2	0	0	00		
Flat		3	2	2	0	0	00		
Hand		3	2	1	1	0	-		
Half round		4	3	2	1	00	000		
Warding		3	3	2	1	-	-		
Knife		3	2	2	1	0	-		
Round		4	4	3	3	1	0		
Square		4	4	3	2	1	0		
Cantsaw		-	3	2	1	-	-		
Crosscut		-	-	1	0	-	-		
Tanged horse rasp		-	-	-	-	000	000		
Platers Special		-	-	-	-	-	000		

Apex Tool Group - H.K.Porter

Industrial Grade, Center Cut Cutters

- General plant maintenance tool
- Drop forged, precision ground, alloy tool steel jaws with center-cut blades
- Cuts soft, medium, or hard materials
- Maximum hardness of material to be cut: Brinell 455/Rockwell C48
- Lockplate keeps jaws from loosening
- Toggle joints turn 50-lbs. hand pressure to 4000 lbs. cutting pressure
- Screw-type adjustment realigns edges
- Steel handles with rubber grips



Cat. No.	Approx. Wt (lbs)	Lgth. (in)	Soft and Medium Hard Materials (Up to Brinell 300, Rockwell C31) - (in)	Hard Materials (Up to Brinell 455, Rockwell C48) - (in)
1490MC	2-3/4	14	5/16	3/16
0090MC	3-1/2	18	3/8	1/4
0190MC	5-1/4	2	7/16	5/16
0290MC	8-1/2	30	1/2	3/8
0390MC	12-7/8	36	9/16	7/16
0590MC	17-1/8	42	11/16	1/2



End View

Hand Tools

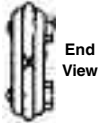
Apex Tool Group - H.K.Porter

General Purpose Center Cut Bolt Cutters

- Series 2000 Bolt Cutter
- Drop-forged jaws with center-cut blades. Heat-treated for wear resistance and long cutting life
- Cuts soft, and medium/hard materials
- Maximum hardness of material to be cut: Brinell 300/Rockwell C31
- Toggle joints turn 50-lbs. hand pressure to 4000 lbs. of cutting pressure
- Precision cast, 1-piece, aluminum alloy handles with rubber grips



Cat. No.	Approx. Wt (lbs)	Lgth. (in)	Soft Materials (Up to Brinell 200, Rockwell C15) - (in)	Hard Materials (Up to Brinell 300, Rockwell C31) - (in)
1490AC	1.7	14	5/16	1/4
0090AC	2.4	18	3/8	5/16
0190AC	4	24	7/16	3/8



Industrial Grade, Clipper Cut Cutters

- All-purpose jaws with clipper-cut blades for close or flush cutting
- Not for cutting hard materials
- Maximum hardness of material to be cut: Brinell 300/Rockwell C31
- Lockplate keeps jaws from loosening
- Toggle joints turn 50-lbs. hand pressure to 4000 lbs. cutting pressure
- Screw-type adjustment realigns edges



Cat. No.	Approx. Wt (lbs)	Lgth. (in)	Soft and Medium Hard Materials (Up to Brinell 200, Rockwell C15) - (in)	Hard Materials (Up to Brinell 300, Rockwell C31) - (in)
1490MNE	2-3/4	14	5/16	1/4
0090MNE	3-1/2	18	3/8	5/16
0190MNE	5-1/4	24	7/16	3/8
0290MNE	8-1/2	30	1/2	7/16
0390MNE	12-7/8	36	9/16	1/2

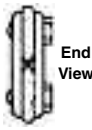


General Purpose, Center Cut Cutters

- All-purpose jaws with center-cut blades
- Cuts soft, medium and hard metals
- Maximum hardness of material to be cut: Brinell 455/Rockwell C48
- Lockplate keeps jaws from loosening
- Toggle joints turn 50-lbs. hand pressure to 4000 lbs. cutting pressure
- Screw-type adjustment realigns edges
- Strong, lightweight fiberglass handles
- Popular cutter



Cat. No.	Approx. Wt (lbs)	Lgth. (in)	Soft and Medium Hard Materials (Up to Brinell 300, Rockwell C31) - (in)	Hard Materials (Up to Brinell 455, Rockwell C48) - (in)
0090FC	3-1/2	18-1/4	3/8	1/4
0190FC	4-1/2	24-1/2	7/16	5/16
0290FC	7-1/2	30-1/2	1/2	3/8
0390FC	11-1/2	36-1/2	9/16	7/16



Angular Style Cutters

- For soft and medium hard metals to 1/2"
- Angular-style jaws with clipper-cut blades, have a 30-degree offset to keep work in view and hands clear of work surface while cutting
- Cuts soft and medium materials
- Maximum hardness of material to be cut: Brinell 300/Rockwell C31



Cat. No.	Approx. Wt. (lbs)	Lgth. (in)	Soft Steel & Non-Ferrous Metals Up to Brinell 200, Rockwell C15 (in)	Medium Hard Metals Up to Brinell 300, Rockwell C31 (in)
1490MAF	3	14	5/16	1/4
0190MA	5-1/2	24	7/16	3/8
0390MA	13-1/8	36	9/16	1/2



Heavy Duty Cutters

- Recommended for the most demanding hand cutting applications
- Heavy-duty straps support the jaws
- Maximum hardness of material to be cut: Brinell 455/Rockwell C48
- Lockplate keeps jaws from loosening
- Toggle joints turn 50 lbs. hand pressure to 4000 lbs. cutting pressure
- Screw-type adjustment realigns edges



Cat. No.	Approx. Wt. (lbs)	Lgth. (in)	Hard Metal, Wire Mesh & Reinforcing Rod & Bar
0190MCX	5-1/2	24	5/16
0290MCX	9-1/4	30	3/8
0390MCX	14-1/8	36	7/16
0590MCX	18-1/4	42	1/2

- Available with tubular steel or lightweight, fiberglass handles



End Cut Nipper

- End-cut blades are at right angles to handles for easier handling and head-on, close cutting in confined spaces
- Cuts soft materials
- Maximum hardness of material to be cut: Brinell 200/Rockwell C15
- Lockplate keeps jaws from loosening
- Toggle joints turn 50-lbs. hand pressure to 4000 lbs. cutting pressure
- Screw-type adjustment realigns edges
- Cutterhead available for 9190E Pneumatic cutter



Cat. No.	Approx. Wt. (lbs)	Lgth. (in)	Soft Steel, Non-Ferrous Material (in)	Wrought Iron (in)
0190ME	5-3/8	24	5/16	5/16



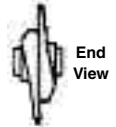
Shear Type Hand Operated Cutters

Power and Communications Cable Cutters

- Lightweight, rugged cutter
- Drop-forged, alloy tool steel jaws with shear-cut blades
- Cuts copper or aluminum, power and communications cable
- Fiberglass handles for 2-handed control



Cat. No.	Approx. Wt. (lbs)	Lgth. (in)	Copper Power Cable	Aluminum Power Cable	Communications Cable (in)
0290FCS	4-1/2	25-1/2	500 MCM	750MCM	1-3/8
0390FCS	6	32	750MCM	1200MCM	1-3/4

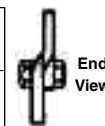


Shear Type Cable Cutters

- For Wire Rope to 3/4"
- Notched, shear-cut blades hold and lock cable in cutting position
- Cuts steel cable, coarse-or fine-stranded cable, or wire rope with minimal distortion
- Toggle joints turn 50-lbs. hand pressure to 4000 lbs. cutting pressure
- Screw-type adjustment realigns edges



Cat. No.	Approx. Wt. (lbs)	Lgth. (in)	Wire Rope (in)	Hard Stainless Steel Cable (in)	Aircraft Cable (in)
1490MTN	2-3/4	14	1/4	1/4	1/4
0190MTN	5	24	3/8	3/8	3/8
0390MTN	12	36	5/8	5/8	5/8
0590MTN	17	42	3/4	3/4	3/4



"B" Strand Cutter

- Support cable only up to 5/16"
- Notched, shear-cut blades hold and lock cable in cutting position
- Cuts self-supporting steel cable and coarse or fine-stranded cable with minimal distortion

Cat. No.	Approx. Wt. (lbs)	Lgth. (in)	Cap. (in)
0190MTQ	5	24	5/16



Apex Tool Group - H.K.Porter & Weller

Compact, Electric Cable Cutter

- High-leverage jaws with shear-cut blades
- Do NOT cut steel or ACSR
- Plastic covered, nonslip grips
- Compact cutter fits into most tool pouches
- NOT an insulated tool



Cat. No.	Approx. Wt. (lbs)	Lgth. (in)	Copper Cable	Aluminum Cable
0890CSJ	1	9-1/2	2/0	4/0

Steel Strap Cutter

- For Strap to 3/4"
- Sheer-cut blades give clean, smooth, easy cuts
- Lower jaw slides under the tightest strapping staple
- Workhead has black oxide, rust-resistant finish
- Cuts steel strap up to 3/4" wide
- Spring action handles with Plastisol® grip open jaws automatically before and after each cut
- HKP's most popular strap cutter model



Cat. No.	Approx. Wt. (lbs)	Lgth. (in)	Flat Steel Strap (in)	Round Steel Tie Wire (in)
0990T	1	9	3/4 x .035	.080

Steel Strap Cutters

- Cuts Steel Strap up to 1-1/4"
- Sheer-cut blades
- Workhead has black oxide, rust-resistant finish
- 1-handed operation gives extra leverage for continuous cuts of wide steel strap quickly and cleanly
- Cushion grip handles



Cat. No.	Approx. Wt. (lbs)	Lgth. (in)	Flat Steel Strap (in)
1290G	1-1/2	12	1-1/4 x .050

Heavy-Duty, Steel Strap Cutter

- Sheer-cut blades
- Cuts heavy steel strapping up to 2"
- Excellent for pallets, loading and unloading freight cars, trucks, and ships
- Long-handled, goose neck, 2-hand operated cutter
- Keep hands away from cutting area



Cat. No.	Approx. Wt. (lbs)	Lgth. (in)	Flat Steel Strap (in)
2690GP	7	24	2 x .050

Apex Tool Group - Weller

Marksman® Mini Iron (12 Watt)

- Fine quality consumer mini iron
- 7" long
- Lightweight and pencil thin
- Ideal for fine soldering and hobby work such as electronic kits, model railways and jewelry making
- Replaceable nickel-plated copper tip
- Stainless steel barrel
- Heat and impact resistant handle
- UL listed



Cat. No.	Description	Volts
SP12	Soldering iron	120

IMPORTANT: Use only Weller® tips. Use of non-Weller® components may void product warranty if the non-Weller® component causes damage to the unit.

Marksman® Iron (25 Watt)

- Fine quality consumer mini iron
- 8-1/4" long
- Featherweight iron with pencil handle
- Ideal for hobbies, kits, radios, and electronics work
- Includes MT1 1/8" diameter replaceable nickel-plated copper tip
- Develops 750-degrees Fahrenheit/400-degrees Celsius
- Stainless steel barrel and heat and impact resistant handle
- UL listed
- CUL listed model available



Cat. No.	Description	Volt
SP23L	Soldering Iron	120
SP23LBK	Soldering Iron	120
SP23LHPK	Soldering Iron Home Project Kit	120
SP23LK	Soldering Iron Kit	120

IMPORTANT: Use only Weller® tips. Use of non-Weller® components may void product warranty if the non-Weller® component causes damage to the unit.

Marksman® Iron (40 Watt)

- Fine quality consumer mini iron
- 8-1/4" long
- Lightweight pencil iron
- Ideal for hobbies
- MT10-1/4" diameter replaceable nickel-plated copper tip
- Develops 900-degrees Fahrenheit/482-degrees Celsius
- Stainless steel barrel and heat and impact resistant handle
- UL listed
- CUL listed model available



Cat. No.	Description	Volt
SP40L	Soldering iron	120
SP40LK	Soldering iron Kit	120

IMPORTANT: Use only Weller® tips. Use of non-Weller® components may void product warranty if the non-Weller® component causes damage to the unit.

Marksman® Iron (80 Watt)

- Fine quality, consumer medium-duty iron
- 9-3/4" long
- Ideal for hobby work, stained glass and minor repairs
- Soldering iron rest included
- MTG20 3/8" diameter replaceable iron-plated copper tip
- Develops 900-degrees Fahrenheit/482-degrees Celsius
- Stainless steel barrel and heat and impact resistant handle
- UL listed
- CUL listed model available



Cat. No.	Description	Volts
SP80L	Soldering iron	120

IMPORTANT: Use only Weller® tips. Use of non-Weller® components may void product warranty if the non-Weller® component causes damage to the unit.

Hand Tools

Apex Tool Group - Weller & Wiss

Marksman® Iron (120 Watt)

- Fine quality, heavy-duty iron
- 11-3/8" long
- Ideal for home workshop, repairs, stained glass and hobbies
- Soldering iron rest included
- MTG30 1/2" diameter replaceable iron-plated copper tip
- Develops 900-degrees Fahrenheit/482-degrees Celsius
- Stainless steel barrel and heat and impact resistant handle
- UL listed
- CUL listed model available



Cat. No.	Description	Volts
SP120	Soldering iron	120

IMPORTANT: Use only Weller® tips. Use of non-Weller® components may void product warranty if the non-Weller® component causes damage to the unit.

Marksman® Iron (175 Watts)

- Fine quality heavy-duty consumer iron
- 12-1/2" long
- Extra heavy-duty for demanding jobs like sheet metal work
- Soldering iron rest included
- MTG40 5/8" diameter replaceable iron-plated copper tip
- Develops 900-degrees Fahrenheit/482-degrees Celsius
- Stainless steel barrel and heat and impact resistant handle
- UL listed
- CUL listed model available



Cat. No.	Description	Volts
SP175	Soldering iron	120

IMPORTANT: Use only Weller® tips. Use of non-Weller® components may void product warranty if the non-Weller® component causes damage to the unit.

Cooper Hand Tools - Wiss

Metalmaster® Compound Action Snips

- Nonslip serrated jaws of Weiss® Metalmaster® snips are made of extra tough, wear-resistant molybdenum steel to provide extra service demanded by the compound lever action
- Withstands severe strain of cutting heavy stock & tight curves
- Handles are formed of high strength steel
- Handles have a margin of strength far above the limit of hand power that can be extended

Metalmaster® Compound Action Snips

- Left cut, cuts left from tight curves to straight (MR1)
- Right cut cuts right from tight curves to straight (MR2)



Cat. No.	Grip color	Lgth. (in)	Snip Lgth. (in)	Recommended max. cap. low carbon cold rolled steel
M1R	Red	9-3/4	1-3/8	18 Gauge Steel 0.049"
M2R	Green	9-3/4	1-3/8	18 Gauge Steel 0.049"

Metalmaster® Compound Action Snips

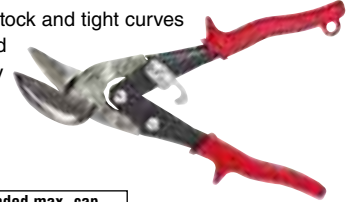
- Cuts straight, left or right in light stock
- Perfect for home craftsman



Cat. No.	Grip color	Lgth. (in)	Snip Lgth. (in)	Recommended max. cap. low carbon cold rolled steel
M3R	Yellow	9-3/4	1-1/2	18 Gauge Steel 0.049"

Metalmaster® Offset Snips

- M6R cuts left and straight
- M7R cuts right and straight
- Offset blades keep hands clear of metal
- Nonslip serrated jaw of tough molybdenum steel allows for compound lever action
- Withstands strain of cutting heavy stock and tight curves
- Spring-action for fast, effortless feed
- Handle of high tensile strength alloy steel exceeds hand power limit
- Handy hang-up hole
- Nonslip, textured grips and safety latch for superior control



Cat. No.	Grip color	Lgth. (in)	Snip Lgth. (in)	Recommended max. cap. low carbon cold rolled steel
M6R	Red	9-1/4	1-1/4	18 Gauge Steel 0.049"
M7R	Green	9-1/4	1-1/4	18 Gauge Steel 0.049"

Metalmaster® Special Series Snips

- M1RS1 cuts left
- M2RS1 cuts right
- Specially hardened to cut exotic metals
- Nonslip serrated jaw of tough molybdenum steel allows for compound lever action
- Withstands strain of cutting heavy stock and tight curves
- Spring-action for fast, effortless feed
- Handle of high tensile strength alloy steel exceeds hand power limit
- Handy hang-up hole
- Nonslip, textured grips and safety latch for superior control



Cat. No.	Grip color	Lgth. (in)	Snip Lgth. (in)	Recommended max. cap. low carbon cold rolled steel
M1RS1	Blue	9-3/4	1-3/8	18 Gauge Stainless Steel 0.049"
M2RS1	Blue	9-3/4	1-3/8	18 Gauge Stainless Steel 0.049"

Metalmaster® Pipe & Duct Snips

- Cuts curves, straight or any combination
- Cuts any shape ducts, seams, sheet metal stock, vinyl tiles & plastic laminates
- Non-slip serrated jaw of tough molybdenum steel allows for compound lever action
- Patented ball-bearing jaw action automatically adjusts blade clearance for squarer, cleaner cuts
- Spring-action for fast, effortless feed
- Handle of high tensile strength alloy steel exceeds hand power limit
- Non-slip, textured grips and safety latch for superior control



Cat. No.	Grip color	Lgth. (in)	Snip Lgth. (in)	Recommended max. cap. low carbon cold rolled steel
M4R	Gray	9-1/4	9/16	20 Gauge Stainless Steel 0.035"

Multimaster® Snips

- Combines the long cut of tinners snips with the strength of compound action
- Compound action multiplies the force of the hand by five times
- Great for making long, fast cuts in several types of material including: paper, plastic, sheet metal, aluminum, vinyl sliding, screening and much more
- Cuts up to 20 gauge steel
- Features nonslip, serrated jaws as well as nonslip textured grips



Cat. No.	Lgth. (in)	Snip Lgth. (in)	Recommended max. cap. low carbon cold rolled steel
M300	10-1/2	3	20 Gauge Steel 0.035"

Eklind®

Eklind®

Ball-Hex-L™ Key Sets

These Ball-Hex-Ltm Keys are designed with a ball profile on the long arm. This feature provides 360 degrees of rotation at up to a 30 degree angle. The blur-free short arm allows the user to apply maximum torque in required applications. Four inch sets and two metric sets are available. These sets come in compact molded plastic holders that firmly retain each key in size marked holes. Key holders are color-coded, red for inch & blue for metric sizes.



Inch Sets

Item No.	Series	No. of Keys	Key Sizes (in)																		
			.050	1/16	5/64	3/32	7/64	1/8	9/64	5/32	3/16	7/32	1/4	5/16	3/8						
13207	Long	7																			
13211	Long	11																			
13212	Long	12																			
13213	Long	13																			

Metric Sets

Item No.	Series	No. of Keys	Key Sizes (mm)															
			1.5	2.0	2.5	3.0	4.0	5.0	6.0	8.0	10.0							
13607	Long	7																
13609	Long	9																

Hex-L® Key Sets

Seven inch sets & four metric sets are available in short & long arm series. These sets come in compact molded plastic holders that firmly retain each key in size marked holes. Key holders are color-coded, red for inch sizes & blue for metric sizes.



Hex-L® Inch Sets in Moulded Plastic Holders

Item No.	Series	No. of Keys	Key Sizes (in)																		
			.050	1/16	5/64	3/32	7/64	1/8	9/64	5/32	3/16	7/32	1/4	5/16	3/8						
10107	Short	7																			
10111	Short	11																			
10113	Short	13																			
10207	Long	7																			
10211	Long	11																			
10213	Long	13																			
10018	Short	9																			
	Long	9																			

Hex-L® Metric Sets in Moulded Plastic Holders

Item No.	Series	No. of Keys	Key Sizes (mm)																		
			1.5	2.0	2.5	3.0	4.0	5.0	6.0	8.0	10.0										
10507	Short	7																			
10509	Short	9																			
10607	Long	7																			
10609	Long	9																			

Fold-Up Hex Key Sets

Five inch sets & three metric sets are available, covering the full range of inch & metric sizes. Each set of keys is housed in a one-piece comfort grip handle which is designed to operate smoothly, as well as hold the keys firmly in any desired work position.



Hex Inch Sets

Item No.	Handle Size (in)	No. of Keys	Key Sizes (in)																		
			.050	1/16	5/64	3/32	7/64	1/8	9/64	5/32	3/16	7/32	1/4	5/16	3/8						
20811	3.00 (S)	8																			
20912	3.63 (S)	9																			
20911	4.25 (M)	9																			
20812	5.25 (L)	8																			
20511	5.25 (L)	5																			

Hex Metric Sets

Item No.	Handle Size (in)	No. of Keys	Key Sizes (mm)																		
			1.5	2.0	2.5	3.0	4.0	5.0	6.0	8.0	10.0										
21171	3.63 (S)	7																			
21172	4.25 (M)	7																			
21151	5.25 (L)	6																			

Fold-A-Ball Sets

Three inch sizes & two metric sizes round out this versatile tool which allows 360 degrees of rotation at up to a 25 degree angle. Each set of keys is housed in a one-piece comfort grip handle which is designed to operate smoothly, as well as hold the keys firmly in any desired work position.



Ball-End Inch Sets

Item No.	Handle Size (in)	No. of Keys	Key Sizes (in)																		
			.050	1/16	5/64	3/32	7/64	1/8	9/64	5/32	3/16	7/32	1/4	5/16	3/8						
20719	3.00 (S)	7																			
20919	4.25 (M)	9																			
20519	5.25 (L)	5																			

Ball-End Metric Sets

Item No.	Handle Size (in)	No. of Keys	Key Sizes (mm)																		
			1.5	2.0	2.5	3.0	4.0	5.0	6.0	8.0	10.0										
21158	3.00 (S)	5																			
21159	5.25 (L)	5																			

Cushion Grip Hex T-Key Sets

These Hex T-Keys feature a one piece loop handle for extra strength which is vinyl coated to reduce hand fatigue. Pouch sets or bench sets with metal stands are available in 6" & 9" arm lengths and in inch or metric sizes.



Cushion Grip Inch Sets

Item No.	Arm Lgth. (in)	No. of Keys	Key Sizes (in)																		
			3/32	7/64	1/8	9/64	5/32	3/16	7/32	1/4	5/16	3/8									
Sets in Pouches																					
53610	6	10																			
53910	9	10																			
53168	6	8																			
53198	9	8																			
Sets in Stands																					
50160	6	10																			
50190	9	10																			

Cushion Grip Metric Sets

Item No.	Arm Lgth. (in)	No. of Keys	Key Sizes (mm)																		
			2.0	2.5	3.0	4.0	5.0	6.0	8.0	10.0											
Sets in Pouches																					
55168	6	8																			
55198	9	8																			
55166	6	6																			
55196	9	6																			
Sets in Stands																					
56168	6	8																			
56198	9	8																			

Hand Tools

Standard Grip Hex T-Key Sets

Featuring our one piece loop handle construction for extra strength. Pouch sets or bench sets with metal stands are available in 6" & 9" arm lengths & in inch or metric sizes.



Cushion Grip Inch Sets

Item No.	Arm Lgth. (in)	No. of Keys	Key Sizes (in)									
			3/32	7/64	1/8	9/64	5/32	3/16	7/32	1/4	5/16	3/8
Sets in Pouches												
33610	6	10										
33910	9	10										
33168	6	8										
33198	9	8										
Sets in Stands												
30160	6	10										
30190	9	10										

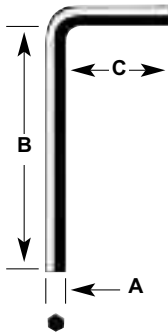
Individual Hex-L® Keys

Inch Sizes

Hex Size A	Short Arm (in) C	Short Series		Long Series		6" Series Item No.	12" Series Item No.
		Item No.	Long Arm (in) B	Item No.	Long Arm (in) B		
.028	0.22	15101	1.22	-	-	-	-
.035	0.34	15102	1.22	15202	2.67	-	-
.050	0.53	15103	1.66	15203	2.84	-	-
1/16	0.56	15104	1.75	15204	3.00	-	-
5/64	0.61	15105	1.88	15205	3.19	15305	15405
3/32	0.66	15106	2.00	15206	3.38	15306	15406
7/64	0.70	15107	2.12	15207	3.56	15307	-
1/8	0.75	15108	2.25	15208	3.75	15308	15408
9/64	0.80	15109	2.38	15209	3.94	15309	-
5/32	0.84	15110	2.50	15210	4.12	15310	15410
3/16	0.94	15112	2.75	15212	4.50	15312	15412
7/32	1.03	15114	3.00	15214	4.88	14314	15414
1/4	1.12	15116	3.25	15216	5.25	15316	15416
5/16	1.25	15120	3.75	15220	6.00	15320	-
3/8	1.38	15124	4.25	15224	6.75	15324	-
7/16	1.50	15128	4.75	15228	7.50	-	-
1/2	1.63	15132	5.25	15232	8.25	-	-
9/16	1.75	15136	5.75	15236	9.00	-	-
5/8	1.88	15140	6.25	15240	9.75	-	-
3/4	2.13	15148	7.25	15248	11.25	-	-
7/8	2.38	15156	8.25	15256	12.75	-	-
1	2.63	15164	9.25	15264	14.25	-	-

Metric Sizes

Hex Size A	Short Arm (in) C	Short Series		Long Series	
		Item No.	Long Arm (in) B	Item No.	Long Arm (in) B
0.7	0.22	15500	1.22	-	-
0.9	0.34	15501	1.22	15601	2.67
1.3	0.53	15502	1.63	15602	2.84
1.5	0.53	15503	1.73	15603	3.03
2.0	0.61	15504	1.93	15604	3.19
2.5	0.69	15505	2.15	15605	3.48
3.0	0.75	15506	2.42	15606	3.88
4.0	0.94	15508	2.68	15608	4.09
5.0	1.06	15510	3.08	15610	4.57
6.0	1.22	15512	3.46	15612	5.43
7.0	1.34	15514	3.74	15614	5.82
8.0	1.38	15516	3.84	15616	6.20
9.0	1.46	15518	4.07	15618	6.39
10.0	1.54	15520	4.29	15620	6.58
12.0	1.73	15524	4.80	15624	8.23
14.0	2.15	15528	5.37	15628	9.15
17.0	2.42	15534	6.14	15634	9.69
19.0	2.72	15538	6.91	15638	10.85
22.0	3.07	11544	7.68	15644	12.99
24.0	4.37	15548	9.25	15648	14.78



Eklind®

Torx®-L Keys

Hex Size A	Short Arm (in) C	Short Series		Long Series	
		Item No.	Long Arm (in) B	Item No.	Long Arm (in) B
T5	0.532	15805	1.30	15905	2.40
T6	0.46	15806	1.59	15906	2.77
T7	0.51	15807	1.64	15907	2.82
T8	0.56	15808	1.74	15908	2.99
T9	0.61	15809	1.88	15909	3.19
T10	0.66	15810	2.00	15910	3.38
T15	0.71	15815	2.13	15915	3.57
T20	0.75	15820	2.25	15920	3.75
T25	0.80	15825	2.38	15925	3.94
T27	0.85	15827	2.50	15927	4.13
T30	0.94	15830	2.75	15930	4.50
T40	1.03	15840	3.00	15940	4.88
T45	1.13	15845	3.25	15945	5.25
T50	1.25	15850	3.75	15950	6.00
T55	1.38	15855	4.25	15955	6.75
T60	1.63	15860	5.25	15960	8.25

Ball-Hex-L™ Keys

Inch Sizes

Hex Size A	Short Arm (in) C	Short Series	
		Item No.	Long Arm (in) B
.050	0.53	18203	2.84
1/16	0.56	18204	3.00
5/64	0.61	18205	3.19
3/32	0.66	18206	3.38
7/64	0.70	18207	3.56
1/8	0.75	18208	3.75
9/64	0.80	18209	3.94
5/32	0.84	18210	4.12
3/16	0.94	18212	4.50
7/32	1.03	18214	4.88
1/4	1.12	18216	5.25
5/16	1.25	18220	6.00
3/8	1.38	18224	6.75
7/16	1.50	18228	7.50
1/2	1.63	18232	8.25
9/16	1.75	18236	9.00
5/8	1.88	18240	9.75
3/4	2.13	18248	11.25

Metric Sizes

Hex Size A	Short Arm (in) C	Short Series	
		Item No.	Long Arm (in) B
1.3	0.53	18602	2.84
1.5	0.53	18603	3.03
2.0	0.61	18604	3.19
2.5	0.69	18605	3.48
3.0	0.75	18606	3.88
4.0	0.94	18608	4.09
5.0	1.06	18610	4.57
6.0	1.22	18612	5.43
7.0	1.38	18614	6.20
8.0	1.38	18616	6.20
9.0	1.54	18618	6.58
10.0	1.54	18620	6.58
12.0	1.73	18624	8.23
14.0	2.15	18628	9.15
17.0	2.42	18634	9.69
19.0	2.70	18638	10.85

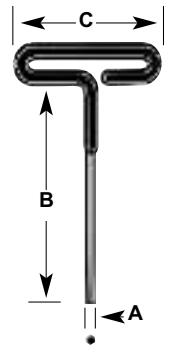
Individual Hex T-Keys

Inch Sizes

Hex Size A	Handle Width (in) C	Cushion Grip		Standard Grip		
		9" Series Item No.	6" Series Item No.	9" Series Item No.	6" Series Item No.	3" Series Item No.
5/64	3.00	51905	51605	31905	31605	31305
3/32	3.00	51906	51606	31906	31606	31306
7/64	3.00	51907	51607	31907	31607	31307
1/8	3.00	51908	51608	31908	31608	31308
9/64	3.00	51909	51609	31909	31609	31309
5/32	3.00	51910	51610	31910	31610	31310
3/16	4.00	51912	51612	31912	31612	31312
7/32	4.00	51914	51614	31914	31614	31314
1/4	4.00	51916	51616	31916	31616	31316
5/16	6.00	51920	51620	31920	31620	31320
3/8	6.00	51924	51624	31924	31624	-

Metric Sizes

Hex Size A	Handle Width (in) C	Cushion Grip		Standard Grip		
		9" Series Item No.	6" Series Item No.	9" Series Item No.	6" Series Item No.	3" Series Item No.
2.0	3.00	54920	54620	34920	34620	-
2.5	3.00	54925	54625	34925	34625	-
3.0	3.00	54930	54630	34930	34630	-
4.0	3.00	54940	54640	34940	34640	-
5.0	4.00	54950	54650	34950	34650	-
6.0	4.00	54960	54660	34960	34660	-
8.0	6.00	54980	54680	34980	34680	-
10.0	6.00	54990	54690	34990	34690	-



Eklind® & Empire

Screw Charts

Inch Sizes

Hex Size A	Cap Screws					Set Screws	Shoulders Screws	Pressure Plugs
	Socket Head 1936	Socket Head 1960	Flat Head	Button Head	Low Head			
.028						0		
.035						1,2		
.050	0,1	0	0,1,2	0,1,2	4	3,4		
1/16	2	1	3,4	3,4	5,6	5,6		
5/64	3,4	2,3	5,6	5,6	8	8		
3/32	5,6	4,5	8	8	10	10		
7/64		6						
1/8	8		10	10	1/4	1/4	1/4	
9/64	10	8						
5/32	1/4	10	1/4	1/4	5/16	5/16	5/16	1/16
3/16	1/4	1/4	5/16	5/16	3/8	3/8	3/8	1/8
7/32	5/16		3/8	3/8	7/16	7/16		
1/4		5/16	7/16	7/16	1/2	1/2	1/2	1/4
5/16	3/8,7/16	3/8	1/2	1/2	5/8	5/8	5/8	3/8
3/8	1/2	7/16,1/2	5/8	5/8	3/4	3/4	3/4	1/2
7/16								
1/2	5/8	5/8	3/4			7/8	1	
9/16	3/4,7/8		7/8			1,1-1/8		3/4
5/8	1	3/4	1			1-1/4,1-3/8	1-1/4	1
3/4	1-1/8,1-1/4,1-3/8	7/8,1	1-1/8			1-1/2	1-1/4	1-1/4
7/8		1-1/8,1-1/4	1-1/4,1-3/8				1-1/2	
1	1-1/2	1-3/8,1-1/2	1-1/2			1-3/4,2	1-3/4	1-1/2,2

Metric Sizes

Hex Size A	Cap Screws				Set Screws	Shoulders Screws
	Socket Head 1960	Flat Head	Button Head	Low Head		
0.7					1.4 - 1.7	
0.9					2,2.3	
1.3	1.4				2.5,2.6	
1.5	1.6 - 2.0				3	
2.0	2.3 - 2.6	3	3		4	
2.5	3	4	4		5	
3.0	4	5	5	4	6	
4.0	5	6	6	5	8	4
5.0	6	8	8	6	10	5
6.0	8	10	10	8	12,14	6
8.0	10	12	12	10	16	8
10.0	12	14,16		12	20	10
12.0	14	20		14	24	14
14.0	16			16		
17.0	20			22		16
19.0	24			24		20

Empire®

e845 Series Box Levels

- Sturdy frame with milled edges
- Solid block acrylic vials won't leak
- Ergonomic hand grips
- 300° top read vial



Item No.	Description	Item No.	Description
e845.24	24" Box Level	e845.48	48" Box Level

e70/em71 Series Levels

- True Blue® vials are accurate to within .0005" per inch in all 10 level and plumb working positions
- Heavy-duty 6061 T5 precision milled Acu-Edge™ aircraft aluminum frame
- eshock pro™ endcaps protect frame
- VialGuard + Grip™ for grabbing onto work surfaces
- Large, ergonomic eTread™ hand grips
- em71 Series Magnetic Levels feature Neodymium Powermag™ rare earth magnets for super-strong holding onto ferrous surfaces
- Lifetime Warranty



Item No.	Description	Item No.	Description
e70.24	24" Level	e71.24	24" Magnetic Level
e70.48	48" Level	e71.48	48" Magnetic Level
e70.72	72" Level	e71.72	72" Magnetic Level
e70.96	96" Level	e71.96	96" Magnetic Level
e70JAMB	78"/32" Level Set	e71JAMB	78"/32" Magnetic Level Set

e850-48 Series "The Natural" 48" Stainless Steel Trim Wood Levels

- Select grade hardwood surpasses all other levels in the load test
- Handcrafted from earth's renewable resources
- Edge wrapped with stainless steel trim
- Beveled rubber endcaps protect from shock



e80/em81 Series Heavy-Duty Levels

- True Blue® vials are accurate to within .0005" per inch in all 10 level and plumb working positions
- Super strong anodized I-Beam frame
- Shock absorbing endcaps
- Top reading window
- Lifetime Warranty
- em81 has Strong holding magnetic edge



Item No.	Description	Item No.	Description
e80.24	24" Heavy-Duty Level w/VARI-PITCH™	em81.24	24" Heavy-Duty Magnetic Level w/45° vial
e80.48	48" Heavy-Duty Level w/VARI-PITCH™	em81.48	48" Heavy-Duty Magnetic Level
e80.72	72" Heavy-Duty Level	em81.78	78" Heavy-Duty Magnetic Level
e80.78	78" Heavy-Duty Level	em81.96	96" Heavy-Duty Magnetic Level
e80.96	96" Heavy-Duty Level	em81.120	Adjustable Layout Level (Extends 6'6" to 10')
TC16	78" & 32" Heavy-Duty Level Door Jamb Set	TC17	78" & 32" Heavy-Duty Magnetic Level Door Jamb Set

540 Series Aluminum Levels

- Rugged aluminum I-Beam frame
- Top read window for convenience
- Beveled endcaps protect vials from shock

Item No.	Description
540.24	24" Aluminum Level
540.48	48" Aluminum Level



Hand Tools

Empire®

e50/em51 Heavy Duty Aluminum Series Levels

- New ergonomic handgrips provide a comfortable grip and cover the internal openings in the extrusion
- High visibility plumb vial surrounds make viewing easier in all light conditions
- Durable center vial surround aids visibility and protects the vials
- em51 has strong holding full length magnetic edge

Item No.	Description
e50.24	24" Level
e50.48	48" Level
e50.72	72" Level
em51.24	24" Level
em51.48	48" Level
em51.78	78" Level



580 Series Aluminum Levels & 581 Series Aluminum Magnetic Levels

- Advanced frame design assures accuracy
- Top read window
- Beveled endcaps protect vials from shock
- 581 Series: Magnetic edge holds to ferrous surfaces



Item No.	Description	Item No.	Description
580-18VP	18" Aluminum Level w/VARI-PITCH™	581-18	18" Magnetic Aluminum Level w/45° vial
580-24	24" Aluminum Level	581-24	24" Magnetic Aluminum Level w/45° vial
580-36	36" Aluminum Level	581-36	36" Magnetic Aluminum Level
580-48	48" Aluminum Level	581-48	48" Magnetic Aluminum Level
580-72	72" Aluminum Level	581-72	72" Magnetic Aluminum Level

430 Series Homeowner Aluminum Levels

- Rigid aluminum I-Beam frame
- Easy grip hand holes
- Durable acrylic vials



Item No.	Description	Item No.	Description
430.18	18" Aluminum Level	430.36	36" Aluminum Level
430.24	24" Aluminum Level	430.48	48" Aluminum Level

330 Series Polycast® Levels

- Durable Polycast® frame is virtually unbreakable under normal use
- Will not mar or scratch fine surfaces or furniture
- Durable acrylic vials

Item No.	Description
330.24	24" Polycast® Level
330.36	36" Polycast® Level
330.48	48" Polycast® Level



Soft Side Level Cases

- 600 Denier poly construction with double stitching and bar tacking
- Convenient carrying handle and adjustable shoulder strap
- Heavy-duty zipper closure
- 48" case also holds 24" level in a custom-fit outer pocket
- 78" case also holds 32" level in a custom-fit outer pocket

Item No.	Description
68-148	48" Soft Side Level Case
68-178	78" Soft Side Level Case



68-048 Duraguard™ 48" Level Case

- Protects your level from damage
- Tough, high density polyethylene



em81.9 9" Heavy Duty Magnetic Torpedo Level

- True Blue® vials are accurate to within .0005" per inch in all 10 level and plumb working positions
- Heavy-duty extruded aluminum frame
- Vials read plumb, level and 45°
- Strong holding magnetic edge
- V-grooved working edge fits on pipe or conduit
- Lifetime Warranty



Item No.	Description
em81.9	9" Heavy Duty Aluminum Torpedo Level
e80.9	9" Heavy Duty Aluminum Torpedo Level (non-magnetic)

581-9 9" Magnetic Torpedo Tool

- Durable acrylic vials read plumb, level and 45°
- Solid aluminum frame, 9" overall length
- Magnetic edge frees hands



em81.12 12" Heavy Duty Magnetic Tool Box Level

- True Blue® vials are accurate to within .0005" per inch in all 10 level and plumb working positions
- Heavy duty 12" extruded aluminum frame
- 4 vials read plumb, level, 45°, and Vari-Pitch™
- Powerful, full-length magnetic edge
- Vari-Pitch™ vial reads slope in 1/8" increments



e280/e250 Heavy-Duty Professional Combination Square

- Precision machined head and True Blue® vials ensure squareness to .001"
- Etched stainless steel blade with inch graduations
- Heavy-duty machined square head
- Self-aligning drawbolt, hardened scribe
- True Blue® vial for accuracy
- Lifetime Warranty



Item No.	Description	Item No.	Description
e280M	16" Combination Square, Metric gradations	e250M	12" Combination Square, Metric gradations

e255 6" Pocket Combination Square

- Precision machined head and True Blue® vials ensure squareness to .001"
- 6" etched stainless steel blade with inch graduations
- Machined square head
- Self-aligning drawbolt hardened scribe
- True Blue® vial for accuracy
- Lifetime Warranty



230 12" Combination Square

- 12" steel blade with inch graduations
- Machined square head
- Self-aligning drawbolt, hardened scribe



Empire®

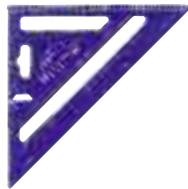
e3992 12" HI-VIs Rafter Square

- High visibility, deep stamped, long lasting graduations
- Anodized aluminum construction will not rust or corrode
- Mark or cut boards up to 12" wide
- Thick edge makes for a safer saw guide
- Convenient stamped-in conversion tables
- Includes helpful instruction manual with complete rafter tables



e2992 7" HI-VIs Rafter Square

- High visibility, deep stamped, long lasting graduations
- Anodized aluminum construction will not rust or corrode
- Thick edge makes for a safer saw guide
- Convenient stamped-in conversion tables
- Includes helpful instruction manual with complete rafter tables



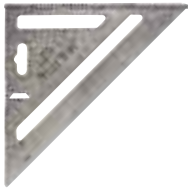
3990 12" Heavy-Duty Magnum™ Rafter Square

- Solid aluminum extruded square will not bend or break
- Stamped conversion tables
- Mark or cut boards up to 12" wide
- Thicker frame design ensures safe use as a saw guide
- Graduated notches for "pulling" layout lines
- Includes helpful instruction manual with complete rafter tables



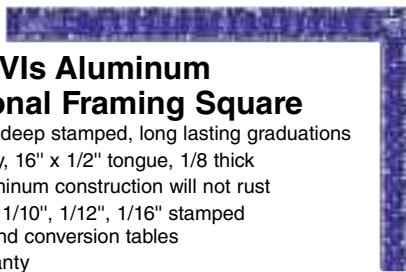
2990 7" Heavy-Duty Magnum™ Rafter Square

- Solid aluminum extruded square will not bend or break
- Aluminum will not rust or corrode
- Stamped conversion tables
- Thick edge makes for a safer saw guide
- Includes helpful instruction manual with complete rafter tables



e1190 HI-VIs Aluminum Professional Framing Square

- High visibility, deep stamped, long lasting graduations
- 24" x 12" body, 16" x 1/2" tongue, 1/8" thick
- Anodized aluminum construction will not rust
- Includes 1/8", 1/10", 1/12", 1/16" stamped graduations and conversion tables
- Lifetime Warranty



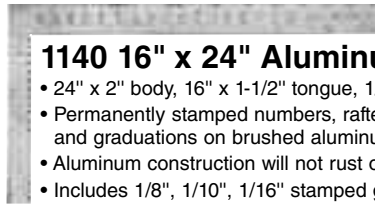
1240 16" x 24" "Fat Boy" Aluminum Framing Square

- 24" x 2" body, 16" x 1-1/2" tongue
- 50% thicker, heavy-gauge aluminum 3/16" thick resists bending
- Deep stamped inch graduations, numbers and rafter tables for long life
- Aluminum construction will not rust or corrode
- Includes 1/8", 1/10", 1/12", 1/16" stamped graduations
- Lifetime Warranty



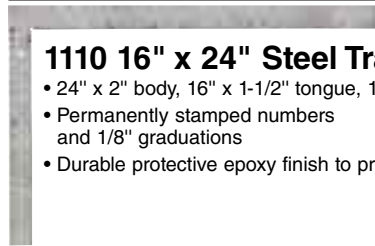
1140 16" x 24" Aluminum Framing Square

- 24" x 2" body, 16" x 1-1/2" tongue, 1/8" thick
- Permanently stamped numbers, rafter tables, and graduations on brushed aluminum finish
- Aluminum construction will not rust or corrode
- Includes 1/8", 1/10", 1/16" stamped graduations



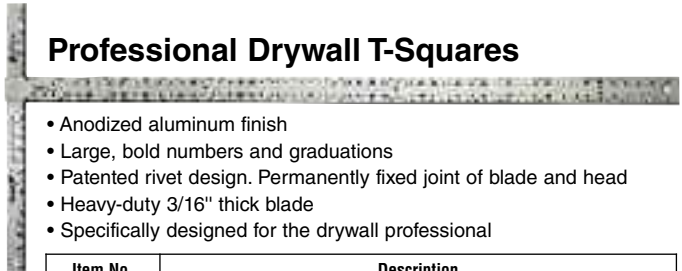
1110 16" x 24" Steel Tradesman Square

- 24" x 2" body, 16" x 1-1/2" tongue, 1/16" thick
- Permanently stamped numbers and 1/8" graduations
- Durable protective epoxy finish to prevent rust



Professional Drywall T-Squares

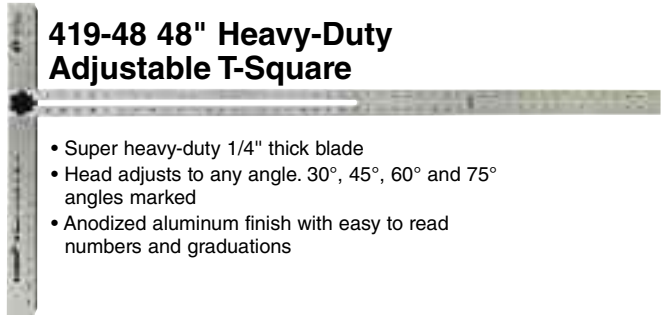
- Anodized aluminum finish
- Large, bold numbers and graduations
- Patented rivet design. Permanently fixed joint of blade and head
- Heavy-duty 3/16" thick blade
- Specifically designed for the drywall professional



Item No.	Description
418-48	Drywall T-Square with 3/16" thick, 47-7/8" long blade
418-54	Professional Drywall T-Square with 3/16" thick, 53-7/8" long blade

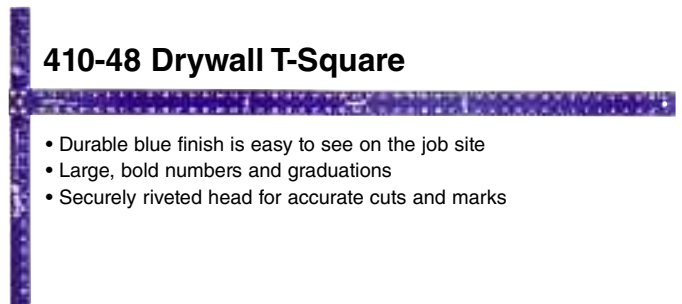
419-48 48" Heavy-Duty Adjustable T-Square

- Super heavy-duty 1/4" thick blade
- Head adjusts to any angle. 30°, 45°, 60° and 75° angles marked
- Anodized aluminum finish with easy to read numbers and graduations



410-48 Drywall T-Square

- Durable blue finish is easy to see on the job site
- Large, bold numbers and graduations
- Securely riveted head for accurate cuts and marks



122 8" Heavy-Duty Aluminum Try Square

- Stainless steel etched blade prevents rust and corrosion
- Heavy-duty aluminum billet handle



Hand Tools

Empire



Heavy-Duty Aluminum Straight Edges

- Easy reading inch scale graduations
- Heavy-duty aluminum straight edge – 2" width

Item No.	Description	Item No.	Description
4002	24" Aluminum Straight Edge	4006	72" Aluminum Straight Edge
4003	36" Aluminum Straight Edge	4008	96" Aluminum Straight Edge
4004	48" Aluminum Straight Edge	4010	1 Meter Aluminum Straight Edge
4004M	48" Aluminum Straight Edge (inch/metric graduations)	403	36" x 1-1/8" Aluminum Straight Edge

Brass Plumb Bobs

- Solid brass plumb bob with lacquered finish to resist corrosion
- Ties easily to any string or line
- Extra hardened steel tip included

Item No.	Description	Item No.	Description
908BR	8oz. Brass Plumb Bob	924BR	24oz. Brass Plumb Bob
912BR	12oz. Brass Plumb Bob	932BR	32oz. Brass Plumb Bob
916BR	16oz. Brass Plumb Bob	90832	Brass Plumb Bob Replacement Tip



Brass Plumb Bobs

- Steel plumb bob with plated finish to resist corrosion
- Ties easily to any string or line

Item No.	Description	Item No.	Description
905	5oz. Steel Plumb Bob	908	8oz. Steel Plumb Bob



Line Reels

- Available in 100', 250' and 500' reels
- Easy to see bright orange, gold, and pink
- Choice of twisted or braided line



Braided Line			
Item No.	Description	Item No.	Description
39111N	100' Gold	39213N	250' Orange
39113N	100' Orange	39214N	250' Pink
39211N	250' Gold	39514N	500' Pink

Twisted Line		Display	
Item No.	Description	Item No.	Description
39201N	250' Gold	D39101N	100' Gold Twisted Line Reel Display
39203N	250' Orange	D39513N	500' Orange Twisted Line Reel Display
39501N	500' Orange	D39511N	500' Gold Braided Line Reel Display

Construction Line

- Available in 250', 500' and 1000' rolls
- Easy to see bright orange, gold, pink, green, and white



Braided Line					
Item No.	Description	Item No.	Description	Item No.	Description
39611N	250' Gold	39614N	250' Pink	39713N	500' Orange
39612N	250' White	39711N	500' Gold	39714N	500' Pink
39613N	250' Orange	39712N	500' White	39813N	1000' Orange

Line Levels

- Lightweight construction minimizes line sag
- Unbendable open hooks allow level to slide freely
- Pocket clip will guard tool against loss
- Vari-Pitch™ vial reads from level to 1/2" pitch in 1/8" increments



Item No.	Description
83-3	Standard Line Level
83-50	Standard Line Level - 50 Pack
83038	Line Level Set-Standard & VARI-PITCH™

84-5 Pocket Level

- Strong molded frame
- Overall length 5"
- Top read window
- Durable pocket clip



36704 Bullseye™ Level

- Levels in all directions
- Use on ranges, refrigerators, washers, dryers, stereos, RV's



36 Magnetic Polycast™ Protractor

- Solid brass plumb bob with lacquered finish to resist corrosion
- Ties easily to any string or line
- Extra hardened steel tip included



Power Grip Tapes

- Triple Riveted, Reinforced Dual-End Hook for long lasting durability
- Durable ABS yellow case
- Bold clear numbers on bright yellow tape
- Rigid blade with protective nylon coating
- Durable steel belt clip
- Dependable slide lock



Black Rubber Boot		Yellow Rubber Boot	
Item No.	Description	Item No.	Description
7516	16' x 3/4" Blade	7517	16' x 3/4" Blade
7525	25' x 1" Blade	7526	25' x 1" Blade
7530	30' x 1" Blade	7531	30' x 1" Blade
7535	35' x 1" Blade	7536	35' x 1" Blade

Power Tapes

- Durable chrome and yellow cases
- High impact resistant ABS body
- Bold clear numbers on bright yellow tape
- Rigid blade with protective acrylic coating
- Durable steel belt clip
- Dependable slide lock



Chrome Case		Yellow Case		Yellow Case	
Item No.	Description	Item No.	Description	Item No.	Description
610	10' x 5/8" Blade	6910	10' x 5/8" Blade	6271M	25' x 1" Blade (inch/metric)
612	12' x 5/8" Blade	6912	12' x 5/8" Blade	6371M	30' x 1" Blade (inch/metric)
616	16' x 3/4" Blade	6916	16' x 3/4" Blade	6271M	25' x 1" Blade (inch/eng)
626	25' x 1" Blade	6926	25' x 1" Blade	6527POP	25' x 1" Blade (24 piece disp)
636	30' x 1" Blade	6936	30' x 1" Blade		

Nylon-Clad Steel Measuring Tapes

- Glare-proof, clear nylon coating protects blade from corrosion
- Flexible high tempered steel blade will not stretch
- High impact resistant ABS body
- Numbers and graduations printed in black, foot markings in red
- Black case with two color tape, white side of tape has inch markings, yellow side has engineering scale



Item No.	Description
6710	100' x 1/2" Nylonclad Steel Measuring Tape
39113N	200' x 1/2" Nylonclad Steel Measuring Tape

Empire®/Estwing

Open Reel Fiberglass Measuring Tapes

- Heavy-duty construction, high impact resistant ABS body
- Numbers and graduations printed in black
- Fiberglass tape will not rot, corrode or distort
- Yellow case with two color tape, white side of tape has inch markings, yellow side has engineering scale
- Comfortable rubber hand grip



Item No.	Description
6799	100' x 1/2" Fiberglass Measuring Tape (Yellow Case)
6820	200' x 1/2" Fiberglass Measuring Tape (Yellow Case)
6830	300' x 1/2" Fiberglass Measuring Tape (Yellow Case)
6711	100' x 1/2" Fiberglass Measuring Tape (Black Case)

100' Closed Case Measuring Tapes

- High impact resistant ABS body
- Contoured rubber grip fits comfortably in hand
- Folding handle for quick retrieval of tape
- 6699 has 3/8" wide carbon steel blade with protective acrylic coating
- 6100 has white 1/2" wide fiberglass tape printed on two sides with inch/engineers scale printed in black, foot markings in red



Item No.	Description
6699	100' Closed Case Steel Measuring Tape
6100	100' Closed Case Fiberglass Measuring Tape

Estwing

Hammers



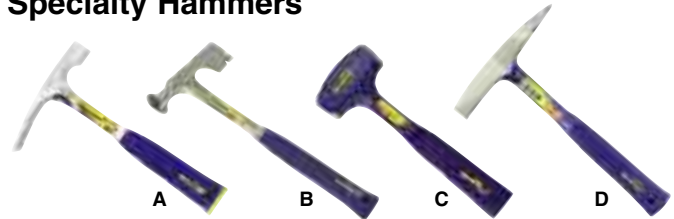
Tool Type	Order No.	Weight (oz)	Description
B	E3-16S	16	Full Polished, Straight Claw, Nylon-Vinyl Grip
	E3-20S	20	Full Polished, Straight Claw, Nylon-Vinyl Grip
C	E3-22SM	22	Milled Face, Long Handle, Full Polished, Straight Claw, Framing Hammer, Nylon-Vinyl Grip
	E3-22S	22	Long Handle, Full Polished, Straight Claw, Framing Hammer, Nylon-Vinyl Grip
	E3-24SM	24	Milled Face, Long Handle, Full Polished, Straight Claw, Framing Hammer, Nylon-Vinyl Grip
	E3-24S	24	Long Handle, Full Polished, Straight Claw, Framing Hammer, Nylon-Vinyl Grip
	E3-28SM	28	Milled Face, Long Handle, Full Polished, Straight Claw, Framing Hammer, Nylon-Vinyl Grip
	E3-28S	28	Long Handle, Full Polished, Straight Claw, Framing Hammer, Nylon-Vinyl Grip
	ES-30SM	30	Milled Face, Long Handle, Full Polished, Straight Claw, Framing Hammer, Nylon-Vinyl Grip
D	E16C	16	Full Polished, Curved Claw, Leather Grip
	E20C	20	Full Polished, Curved Claw, Leather Grip
E	E16S	16	Full Polished, Straight Claw, Leather Grip
	E20S	20	Full Polished, Straight Claw, Leather Grip

Fiberglass Handle Hammers



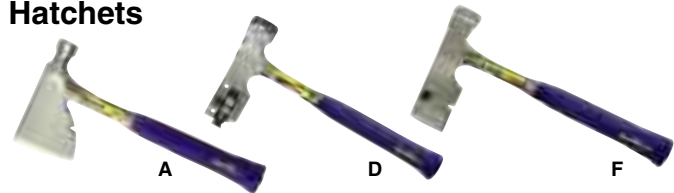
Tool Type	Order No.	Weight (oz)	Description
A	MRF16C	16	Fiberglass Handle Hammer, Curved Claw, Smooth Face
	MRF20C	20	Fiberglass Handle Hammer, Curved Claw, Smooth Face
B	MRF16S	16	Fiberglass Handle Hammer, Straight Claw, Smooth Face
	MRF20S	20	Fiberglass Handle Hammer, Straight Claw, Smooth Face

Specialty Hammers



Tool Type	Order No.	Weight	Description
A	E3-16BLC	16 oz.	Tile Setter's Hammer-Full Polished, Nylon-Vinyl Grip Mason's Hammer-Full Polished, Nylon-Vinyl Grip Mason's Hammer-Full Polished, Nylon-Vinyl Grip
	E3-20BLC	20 oz.	
	E3-24BLC	24 oz.	
B	E3-11	14 oz.	Drywall Hammer-Crowned & Scored Face, Full Polished, Nylon-Vinyl Grip
	E3-17	17 oz.	Drywall Hammer-Long Handle, Crowned & Scored Face, Full Polished, Nylon-Vinyl Grip
C*	B3-2LB	2 lbs.	Drilling Hammer-Painted Finish, Nylon-Vinyl Grip Drilling Hammer-Painted Finish, Nylon-Vinyl Grip Drilling Hammer-Painted Finish, Nylon-Vinyl Grip Drilling Hammer-Long Handle, Painted Finish, Nylon-Vinyl Grip <i>*The proper tool for driving hardened nails and cold chisels.</i>
	B3-3LB	3 lbs.	
	B3-4LB	4 lbs.	
	B3-4LBL	4 lbs.	
D	E3-WC	20 oz.	Welding/Chipping Hammer-Full Polished, Nylon-Vinyl Grip Welding/Chipping Hammer-Painted Finish, Nylon-Vinyl Grip
	B3-WC	20 oz.	

Hatchets



Tool Type	Order No.	Cutting Edge (in)	Description
A	E3-1H	3-1/8	Carpenter's Hatchet-Full Polished, Nylon-Vinyl Grip Carpenter's Hatchet-Full Polished, Nylon-Vinyl Grip
	E3-2H	3-5/8	
D	E3-CA	See B-5 blades	Shingler's Hammer-For use with both Metric & Standard Composition Shingles, Full Polished, Nylon-Vinyl Grip, Milled Head, w/Replaceable Retractable Blade and Gauge
F	E3-S	1-7/8	Shingling Hatchet-For use with both Metric & Standard Shingles and Wook Shakes, Full Polished, Nylon-Vinyl Grip, Milled Head, w/ Gauge

Supreme Rock Pick

Order No.	Weight (oz)	Description
E3-16BLC	16	Supreme Rock Pick-Chisel Edge, Full Polished, Nylon-Vinyl Grip
E3-20BLC	20	Supreme Rock Pick-Chisel Edge, Full Polished, Nylon-Vinyl Grip
E3-24BLC	24	Supreme Rock Pick-Chisel Edge, Full Polished, Nylon-Vinyl Grip

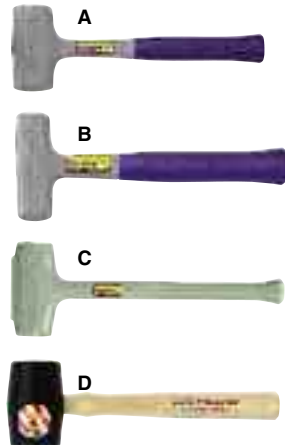


Hand Tools

Estwing/Gerber/Pull'R

Soft Face Hammers

Order No.	Face Dia. (in)	Head Lgth. (in)	Overall Lgth. (in)	Wt.
Dead Blow Hammers (A)				
14E	1-1/4	3-1/8	10-1/8	14 oz.
22E	1-5/8	3-3/4	11-1/4	22 oz.
27E	2	4-1/8	12-3/4	27 oz.
45E	2-1/4	4-5/8	14-3/8	45 oz.
54E	2-5/8	5-3/8	15-1/4	54 oz.
Slim Line Dead Blow Hammers (B)				
9S	7/8	2-7/8	9-3/8	9 oz.
18S	1-1/4	4-3/16	10-5/8	18 oz.
23S	1-1/2	4-1/4	12-1/8	23 oz.
27S	1-5/8	5-1/4	12-3/4	27 oz.
Slim Line Dead Blow Hammers (C)				
88E	2-3/4	7	20	5lb, 8 oz
144E	2-3/4	7	30	9 lb.
176E	3-1/2	8	30	11 lb.
192E	3-1/2	8	36	12 lb.
Deadhead™ Rubber Mallets (D)				
DH-12	2-1/4	4	13	20 oz.
DH-18	2-3/8	4-1/2	14-1/2	25 oz.



Gerber

MULTI-PURPOSE TOOLS

Multi-Plier 600 Series

The Multi-Plier® 600 Series includes:

- Blunt or needlenose pliers
- Wire cutter
- Crimper
- Stand/Metric Scale
- Lanyard ring
- File
- Crosshead Screwdriver
- Bottle/Can Opener
- Serrated Sheepsfoot blade
- Large, Medium & Small Flathead Screwdrivers
- Drop Point Blade

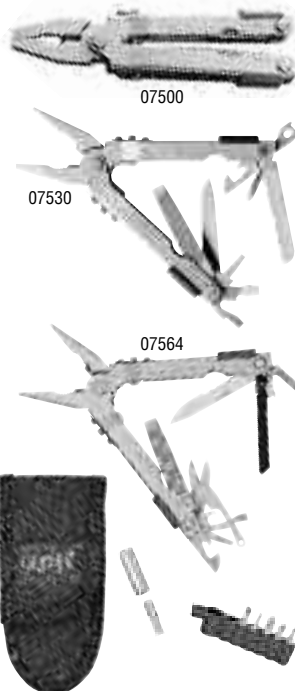
07500 - MP600 Blunt w/Sheath

07530 - MP600 Needlenose w/Sheath

07564 - MP 600 NN Delux*
w/Tool Kit, Sheath

*Delux: Multi-Plier® 600 Series with all of the extras including Fiskars® scissors, the replaceable saw blade and the handy tool kit.

Model No.	Length Open (in)	Length Closed (in)	Wt. (oz)
07500	6.375	4.875	8
07530	6.625	5.125	8
07564	6.625	5.125	11.5



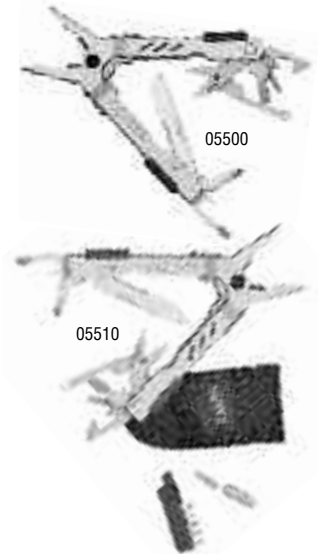
Multi-Plier® 400 Series

Multi-Plier® 400 series Compact Sport. It is a lighter, more compact version of the Multi-Plier® 600 series. Some users like multi-function tools, but want something compact to carry at all times. The Multi-Plier® 400 series was designed specifically for those users. The Compact Sport has a one handed opening, all locking components, independent tool rotation, and comfortable non-pinch handles like the Multi-Plier® 600 series in a tool 3/4 of the size.

05500 - MP400 Compact Sport w/Sheath

05510 - MP400 Compact Sport w/Tool Kit, Sheath

Model No.	Length Open (in)	Length Closed (in)	Wt. (oz)
05500	5.75	1.2	6
05510	5.75	1.2	9.5



Pull'R - Bucket Boss®

Bucket Boss® 24 - 01024

- Dimensions: 12" diameter, 10" height
- Pockets: 17 exterior, 7 interior
- Large interior pockets to hold spray cans or larger hand tools



Bucket Boss® 35 - 01035

- Dimensions: 12" diameter, 10" height
- Pockets: 27 exterior, 8 interior
- Large interior pockets to hold spray cans or larger hand tools
- Interior hammer loop



Bucket Boss® 44 - 01044

- Dimensions: 12" diameter, 10" height
- Pockets: 30 exterior, 14 interior
- Large interior pockets to hold spray cans or larger hand tools
- Interior hammer loop, and exterior tape loop



Bucket Boss® 56 - 01056

- Dimensions: 12" diameter, 10" height
- Pockets: 38 exterior, 18 interior
- Large interior pockets to hold spray cans or larger hand tools
- Drill holder, tape loop, and tape measure holder



Stacker Pocket - 03061

- Dimensions: 12" diameter, 10" height
- Pockets: 27 exterior
- Straps onto the outside of any 5 gallon bucket



Pull'R

Parachute Bag - 25002

- Dimensions: 11" diameter, 5" height
- Pockets: 6 interior
- Stacks 3 or 4 deep in most 5 gallon buckets
- Rip cord closure



Super Chute Parts Bag - 25005

- Dimensions: 10" diameter, 6.5" height
- Pockets: 13 exterior, 6 interior
- Rip cord closure



Pro Rolling Tool Organizer - 40516

- Dimensions: 18.6" x 11" x 9"
- Weight Capacity: 35lbs.
- Pockets: 38 exterior, 21 interior
- Drill holster with bit holders
- 2 Hammer loops
- Handle extends to 39"



Bucket Stacker - 15051

- Dimensions: 12" diameter x 4.75" height
- Four compartments for organizing nuts, bolts, screws, nails and other small parts
- Stacks 4-5 deep in most 5 gallon bucket



Super Stacker - 15054

- Dimensions: 10.5" diameter x 6" height
- 44% more capacity than the traditional Bucket Stacker
- Great for larger parts like plumbing fittings



Bucket Seat Pro™ - 10010

- Dimensions: 12" diameter x 2" height
- 6 compartments organize fasteners, small tools and parts
- Two removeable dividers



GateMouth® Jr. - 06007

- Dimensions: 13" x 10" x 8"
- Pockets: 6 exterior, 15 interior
- Ideal for mid-sized power tools, cords and accessories
- Super-wide "gate-mouth" design



Pro GateMouth® Jr. - 06065

- Dimensions: 13" x 10" x 9.5"
- Pockets: 10 exterior, 17 interior
- 30% larger than GateMouth Jr.
- Designed to fit today's bigger drills
- Includes padded shoulder strap



Pro GateMouth® - 06066

- Dimensions: 18" x 10" x 12"
- Pockets: 8 exterior, 12 interior
- 20% larger than GateMouth
- Beefy shoulder strap for massive loads



Pro Super GateMouth® - 06067

- Dimensions: 19.5" x 12" x 14"
- Pockets: 38 exterior, 14 interior
- Special inside end pockets for plastic parts cases or other bulky items
- Beefy shoulder strap for massive loads
- Outside web straps for levels



Duckwear Toll Roll - 07004

- Dimensions
Rolled: 3.5" diameter, 14.5" length
Opened: 26" x 14" x 1"
- Pockets: 22 pockets, 17 loops
- Carry handle



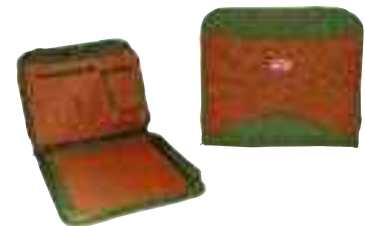
Contractor's Briefcase® - 06005

- Dimensions: 16" x 6" x 12.5"
- A mobile office and tool carrier in one
- Plenty of room for plans, file folders and notebooks
- Room for basic tools such as screwdrivers, measuring tape and cell phones



Contractor's Portfolio Organizer - 57021

- Dimensions: 13" x 2" x 12"
- Carries the essentials for a job-site visit
- Zipper enclosure
- Interior pocket for standard size folders



Builder's Rig - 55033

- Dimensions: 29.5" x 4.5" x 11"
- Pockets: 21 total pockets
- Moveable pouches
- Padded, adjustable belt with reinforced spine



8 Pocket Bib Apron - 82208

- Overall Size: 23.75" x 23.75"
- Full coverage apron for home or shop
- Bar tacked seams
- Dual hammer loops



16 Pocket Super Waist Apron - 83200

- Overall Size: 23.75" x 21"
- Full coverage apron for home or shop
- Fully adjustable belt with quick-release buckle
- Bar tacked seams
- Dual hammer loops



Hand Tools

Garland/General®

Garland

Rawhide Mallets

Code No.	Face Dia. (in)	Wt. (oz)
11000	1	2
11001	1-1/4	4
11002	1-1/2	6
11003	1-3/4	9
11004	2	11
11005	2-3/4	22
11006	2-3/4	24

Garland's all-rawhide mallets are made of tough, long wearing, water buffalo rawhide. They're ideal for use on broad-faced striking surfaces in a broad range of applications.



Dead-Blow Hammers

Standard Head

Soft-faced, Dead-Blow Hammers are made of high-quality, hot-cast polyurethane that gives them outstanding elasticity. The custom-formulated material also gives the hammers a self-healing feature that makes them resistant to dents, abrasions and cuts for longer use.

Code No.	Face Dia. (in)	Head Lgth. (in)	Wt. (oz)
40000	1-1/4	3-3/8	13
40001	1-1/2	3-1/2	16
40002	2	4	26
40003	2-1/4	4-1/2	36
40004	2-3/8	5	48
40005	2-1/2	5-1/2	58
40006	3-1/2	8	192



Rubber Mallets

Garland rubber mallets are designed for general-purpose applications. All sizes deliver solid, mar-free blows.

Code No.	Face Dia. (in)	Head Lgth. (in)	Wt. (oz)
13001	2-1/4	3	17
13002	2-1/4	3-7/8	19
13003	2-1/2	4-1/2	32



Plastic Mallets

Our plastic mallets are made from Garland's own Gar-Durtm ultra-high-molecular-weight plastic. This nonporous material won't mar and is easy to clean.

Code No.	Face Dia. (in)	Head Lgth. (in)	Wt. (oz)
15001	1-1/4	3	4
15002	1-1/2	3-1/2	6
15003	1-3/4	3-7/8	9
15004	2-1/8	4-1/2	14
15005	2-1/2	4-7/8	19
15006	2-3/4	5	24



Split-Head Hammers

The split-head hammer does the work of five different hammers because the face can be easily changed. Five face types are available: rawhide, copper, urethane, nylon and Gar-Dur plastic.

Code No.	Face Dia. (in)	Wt. (lbs)
31101	1-1/4	1-1/2
31002	1-1/2	2
31003	1-3/4	2-3/4
31004	2	4
31005	2-3/4	6-1/2



General®

Heavy Duty Steel Automatic Center Punch

- Heavy duty center punch.
- Black oxide finish inhibits rust.
- All steel 6" body with threaded, replaceable hardened steel point and shaft.
- Body diameter is 5/8".

UPC Code	No.	
31066 8	78	
31068 2	78P	Replacement point
31070 5	78SH	Replacement shaft



Punch/Chisel Holder

This handy holder allows you to hand hold punches and chisels in normally inaccessible work areas. Heavy duty 4" plastic handle with nylon tip in steel frame reduces risk of hand injury and improperly struck tools.

- Capacity 0-1" chisels and punches.
- Rust resistant finish.
- Overall length 6".

UPC Code	No.
30995 2	1286



Tungsten Carbide Scriber & Magnet

- Tungsten carbide tip marks hard materials including hardened steel, ceramics, and glass.
- Alnico permanent magnet picks up small parts and retrieves steel chips from hard to reach places.
- Scriber point reverses for safety.
- Replacement Point No. 88P.
- Overall length 6".

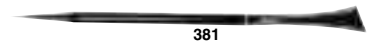
UPC Code	No.
31116	88CM
31114	88P



Scraper/Scriber

- For punching, marking, cutting and carving plastic, leather, paper, and rubber.
- Combines a needle sharp hardened scriber with a specially designed hardened raked angle sharp chisel scraper in the same tool.
- Knurled 1/4" body with an overall length of 6-1/2".

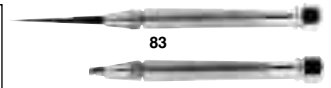
UPC Code	No.
31406	381



Pocket Scriber

- Replaceable hardened and centerless ground point.
- Point reverses into knurled body for safety.
- Body diameter 1/4".
- Conforms to government specifications GGG-S-131e.

UPC Code	No.	Body Dia. (in)	Blade Lgth. (in)	Overall Lgth. (in)
31098	83	1/4"	2-3/8"	4-3/4"
31100	83P			



Universal Thread File

- Eliminates the inconvenience and cost of replacing damaged fasteners.
- Constructed of durable high carbon tool steel with a serrated cutting edge.
- 60 degree angle allows use on all pitches and diameters of threads.
- Rust resistant black oxide finish.
- Comfort grip vinyl handle.
- Overall length 9" with 5" working blade.

UPC Code	No.
31234 1	176

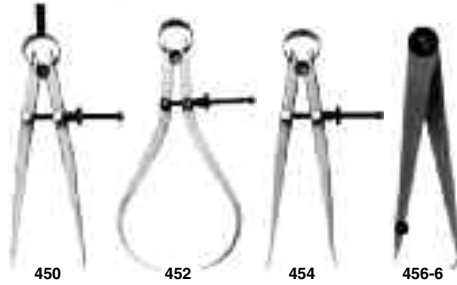


General®

Flag Leg Pattern Dividers and Calipers

- Flat leg dividers and caliper legs are forged of special caliper steel.
- Hardened and tempered bow springs and fulcrum spools assure uniform tension without side play.*
- Adjusting screw has a self seating washer and nut to permit quick and positive adjustment.*
- Dividers have hardened points.
- Calipers have hardened measurement faces.
- Meets government specifications GGG-C-95.

UPC Code	No.	Size (in)
Dividers		
31598 4	450-4	4"
31601 1	450-6	6"
31604 2	450-8	8"
31592 2	450-10	10"
31595 3	450-12	12"
Outside Calipers		
31615 8	452-4	4"
31618 9	452-6	6"
31621 9	452-8	8"
31607 3	452-10	10"
31610 3	452-12	12"
Inside Calipers		
31636 3	454-4	4"
31639 4	454-6	6"
31641 7	454-8	8"
31624 0	454-10	10"
31627 1	454-12	12"
Hermaphrodite Calipers		
31644 8	456-6	6"



*Caliper/Divider 450, 452 and 454 only.

Nut Splitter

Here is a real time saver for the removal of frozen, hard to remove rusted nuts.

- Only 4-3/4" long, this compact tool will split nuts up to 1/2" automotive series (3/4" or 19mm across flats).
- Standard 3/4" driving hex head for use with wrenches or sockets.
- Angled body for getting into hard to reach work areas.
- Replaceable hardened steel chisel point can be reversed to achieve best cutting angle.
- Made of high grade heat treated forged steel for durability. Plated and black oxide finishes to prevent rust.

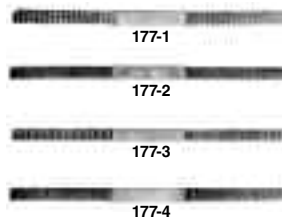


UPC Code	No.
31325 6	175

Thread Repair Files

These indispensable files restore damaged external threads on studs, bolts screws, plumbing pipe and pipe fittings.

- Four different high carbon steel files are available. Each file provides 4 to 8 different thread pitches.
- Restores rusted or corroded fasteners.
- Doubles as a screw pitch gage.
- Length 8-1/2" x 7/16" x 7/16".



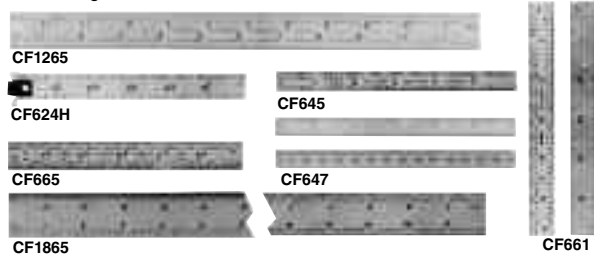
UPC Code	File No.	Thread Pitches
31236 5	177-1	11, 12, 13, 14, 16, 18, 20, 24, T.P.I.
31240 2	177-2	9, 10, 12, 16, 20, 27, 28, 32, T.P.I.
31244 0	177-4	8, 11-1/2", 14, 18 iron pipe
31242 6	177-8	.75, 1.0, 1.25, 1.5, 1.75, 2.0, 2.5, 3.0mm

Ultratest® Steel Rules

- All Ultratest rules are manufactured by a special process to meet or exceed federal specification GGG-R-791f for accuracy.
- They have ultra fine black graduations against hard satin chrome finish for easy reading and long life.
- All Ultratest rules supplied with plastic case.

Type of Graduations:

3R Graduation - 32nds, 64ths, 10ths, 50ths.
4R Graduation - 8ths, 16ths, 32nds, 64ths.
5R Graduation - 32nds, 64ths, 10ths, 100ths.
16R Graduation - 32nds, 64ths, 50ths, 100ths.
Metric English - 32nds, 64ths, 0.5mm, mm.



UPC Code	Stock No.	Size (in)	Grad. Type	Graduation Side 1	Graduation Side 2	Width† (in)
6" RULES						
39021 9	CF640mm	150mm Flex	-	mm, .5mm	mm, .5mm	1/2
33015 4	CF643	6" Flex	3R	32, 64	10, 50	1/2
33018 5	CF644	6" Flex	4R	8, 16	32, 64	1/2
33020 8	CF645	6" Flex	5R	10, 100	32, 64	1/2
33025 3	CF646	6" Flex	16R	32, 64	50, 100	1/2
33030 7	CF647me	6" Flex	-	32, 64	mm, .5mm	1/2
33035 2	CF649md	6" Flex	-	10, 100	mm, .5mm	1/2
33040 6	CF661	6" Rigid	4R	8, 16	32, 64	3/4
33045 1	CF663	6" Rigid	3R	32, 64	10, 50	3/4
33050 5	CF664	6" Rigid	4R	8, 16	32, 64	3/4
33055 0	CF665	6" Rigid	5R	10, 100	32, 64	3/4
33060 4	CF666	6" Rigid	16R	32, 64	50, 100	3/4
33065 9	CF667me	6" Rigid	-	32, 64	mm, .5mm	3/4
33070 3	CF669md	6" Rigid	-	10, 100	mm, .5mm	3/4
6" BLACK NICKEL PLATED RULES						
33019 2	BF644	6" Flex	4R	8, 16	32, 64	1/2
33021 5	BF645	6" Flex	5R	10, 100	32, 64	1/2
33051 2	BF664	6" Rigid	4R	8, 16	32, 64	3/4
33056 7	BF665	6" Rigid	5R	10, 100	32, 64	3/4
12" RULES						
33075 8	CF1243	12" Flex	3R	32, 64	10, 50	1/2
33080 2	CF1244	12" Flex	4R	8, 16	32, 64	1/2
33085 7	CF1245	12" Flex	5R	10, 100	32, 64	1/2
33090 1	CF1246	12" Flex	16R	32, 64	50, 100	1/2
33095 6	CF1247me	12" Flex	-	32, 64	mm, .5mm	1/2
33100 7	CF1249md	12" Flex	-	10, 100	mm, .5mm	1/2
33105 2	CF1263	12" Rigid	3R	32, 64	10, 50	1
33110 6	CF1264	12" Rigid	4R	8, 16	32, 64	1
33115 1	CF1265	12" Rigid	5R	10, 100	32, 64	1
33120 5	CF1266	12" Rigid	16R	32, 64	50, 100	1
18" RULES						
33130 4	CF1843	18" Flex	3R	32, 64	10, 50	3/4
33135 9	CF1844	18" Flex	4R	8, 16	32, 64	3/4
33140 3	CF1845	18" Flex	5R	10, 100	32, 64	3/4
33145 8	CF1846	18" Flex	16R	32, 64	50, 100	3/4
33150 2	CF1847me	18" Flex	-	32, 64	mm, .5mm	3/4
33155 7	CF1849md	18" Flex	-	10, 100	mm, .5mm	3/4
33160 1	CF1863	18" Rigid	3R	32, 64	10, 50	1-1/8
33165 6	CF1864	18" Rigid	4R	8, 16	32, 64	1-1/8
33170 0	CF1865	18" Rigid	5R	10, 100	32, 64	1-1/8
33175 5	CF1866	18" Rigid	16R	32, 64	50, 100	1-1/8
24" RULES						
33180 9	CF2443	24" Flex	3R	32, 64	10, 50	3/4
33185 4	CF2444	24" Flex	4R	8, 16	32, 64	3/4
33190 8	CF2445	24" Flex	5R	10, 100	32, 64	3/4
33195 3	CF2446	24" Flex	16R	32, 64	50, 100	3/4
33200 4	CF2447me	24" Flex	-	32, 64	mm, .5mm	3/4
33205 9	CF2449md	24" Flex	-	10, 100	mm, .5mm	3/4
33210 3	CF2463	24" Rigid	3R	32, 64	10, 50	1-1/8
33215 8	CF2464	24" Rigid	4R	8, 16	32, 64	1-1/8
33220 2	CF2465	24" Rigid	5R	10, 100	32, 64	1-1/8
33225 7	CF2466	24" Rigid	16R	32, 64	50, 100	1-1/8
33230 1	CF2467me	24" Rigid	-	32, 64	mm, .5mm	1-1/8
33235 6	CF2469md	24" Rigid	-	10, 100	mm, .5mm	1-1/8
ADJUSTABLE HOOK RULES						
33010 9	CF624H	6" Rigid	4R	8, 16	32, 64	3/4
33005 5	CF1224H	12" Rigid	4R	8, 16	32, 64	1

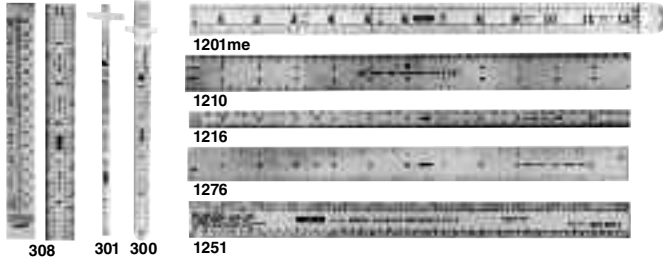
†Dimensions are approximate.

Hand Tools

General®

Steel Rules

General industrial quality rules are precision made with etched fine black graduations on stainless steel or satin chrome finish.

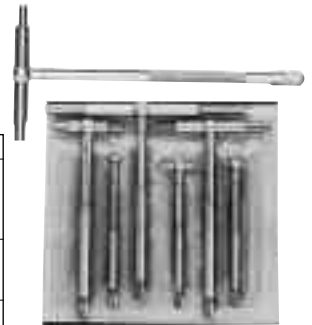


UPC Code	Stock No.	Size (in)	Grad. Type	Graduation Side 1	Graduation Side 2	Width† (in)
6" PRECISION STAINLESS STEEL RULES						
32096 4	616	6" Flex	5R	10, 100	32, 64	15/32
32105 3	633	6" Flex	-	10, 50	16, 32	15/32
32108 4	634	6" Flex	4R	8, 16	32, 64	15/32
32110 7	651	6" Flex	Model RR	HO, S, O, Gage	N, Z	3/4
32111 4	676	6" Rigid	4R	8, 16	32, 64	3/4
32114 5	678med	6" Rigid	-	mm, .5mm	10, 20, 50, 100	3/4
12" PRECISION STAINLESS STEEL RULES						
32162 6	1201me	12" Flex	-	16, 32, 64 mm, .5mm	8, 16, 32, 64	7/8
32168 8	1203me	12" Flex	-	mm, .5mm	32, 64	15/32
32171 8	1210	12" Flex Center Finding	-	16, 32	32, 64	1
32174 9	1216	12" Flex	5R	10, 100	32, 64	15/32
32177 0	1234	12" Flex	4R	8, 16	32, 64	15/32
32180 0	1251	12" Flex	Model RR	HO, S, O, Gage	N Gg., mm, 64 Dec. Equiv.	1
31286 0	1276	12" Rigid	4R	8, 16	32, 64	1
6" AND 12" PRECISION SATIN CHROME STAINLESS STEEL RULES						
32123 7	CF616	6" Flex	5R	10, 100	32, 64	15/32
32129 9	CF618med	6" Flex	-	.5mm, 100	32, 64	15/32
32132 9	CF633	6" Flex	-	10, 50	16, 32	15/32
32135 0	CF634	6" Flex	4R	8, 16	32, 64	15/32
32141 1	CF676	6" Rigid	4R	8, 16	32, 64	3/4
32147 3	CF678med	6" Rigid	-	mm, .5mm	10, 20, 50, 100	3/4
32150 3	CF1216	12" Flex	5R	10, 100	32, 64	15/32
32153 4	CF1227me	12" Rigid	-	32, 64	mm, .5mm	1
32156 5	CF1234	12" Flex	4R	8, 16	32, 64	15/32
32159 6	CF1276	12" Rigid	4R	8, 16	32, 64	1
ECONOMY STEEL RULES						
6" PRECISION STAINLESS STEEL RULES						
32036 0	300/1*	6" Flex	-	32, 64	Dec. Equiv.	15/32
32039 1	300/12*	Twelve No. 300 Rules on Display Card	-			
32041 4	300mm*	150mm Flex	-	mm, .5mm	Metric Equiv.	15/32
32042 1	300me*	6" Flex (150mm)	-	mm, 64		15/32
32046 9	301/1*	6" Flex	-	32, 64		1/4
32049 0	301me/1*	6" Flex	-	mm, 16		1/4
32060 5	305me	6" Flex	-	mm, 16		15/32
32063 6	307	6" Flex	-	8, 16 w/32nd End Grads		
30266 3	308	6" Flex	-	32, 64	Dec. Equiv.	3/4
32072 8	310	6" Flex	-	32, 64	B & S Wire Gg.	3/4
32075 9	311me	6" Flex	-	mm-inch	Comparison	3/4
16, 32						
6" PRECISION STAINLESS STEEL RULES						
32093 3	CF306md*	6" Flex	-	10, 50	mm, .5mm	15/32

* Furnished with pocket clip † Dimensions are approximate.

Telescoping Gages

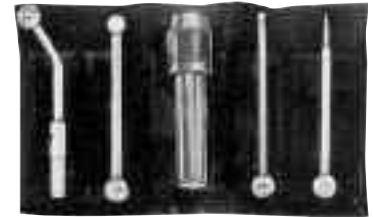
- These gages are used for quick and accurate measurement of inside diameters of holes and widths of slots from which micrometer measurements are taken.
- Both gaging ends are heat treated tool steel and ground to a radius for measuring the smallest hole the gage will enter.
- Self centering action ensures accuracy.
- Long handled design provides improved reach in deep holes and slots.
- Satin chrome finish.
- Available in sets of four and six.



UPC Code	No.	Range
31128 3	S98-4	One each of four sizes, AA-C, listed below, packed in vinyl case
31130 6	S98-6	One each of six sizes, AA-E, listed below, packed in vinyl case
31132 0	98AA	5/16" to 1/2"
31134 4	98A	1/2" to 3/4"
31136 8	98B	3/4" to 1-1/4"
31138 2	98C	1-1/4" to 2-1/8"
31140 5	98D	2-1/8" to 3-1/2"
31141 2	98E	3-1/2" to 6"

Wiggler/Center Finder Set

- The snap in ball and socket wiggler is essential for precise setups in machine shops.
- Locates spindle centers and working points on drill presses, milling and other machines.
- Four interchangeable point attachments snap into adjustable spring tension clutch holder.
- Set includes snap in holder, needle point, disc point, ball shaft and indicator shaft packed in a vinyl case.



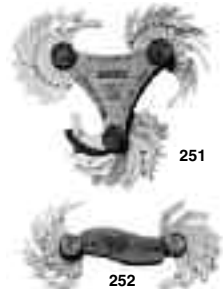
UPC Code	No.
31418 5	S389-4

Replacement Parts for No. 389

UPC Code	No.	Description
31421 5	389NPS	Needle point shaft
31424 6	389BS	Ball shaft
31427 7	389DS	Disc point shaft
31430 7	389-IH	Offset indicator holder

Screw Pitch Gages

- These finely crafted measuring devices are used for gaging V, American National or U.S. standard 60° threads.
- Gages are notched for measuring inside threads of small holes and nuts as well as external threads.
- Set of 51 screw pitches combines all sizes from 4 to 84, including 11-1/2 and 27 pipe thread sizes.
- Knurled thumb nuts lock the case in an open or closed position.
- Also available in 22 pitch set No. 252 and metric No. 255mm.

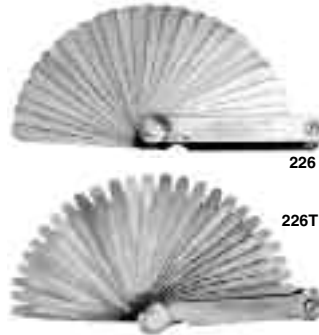


UPC Code	No.	No. of Pitches	Sizes
31321 8	251	51	4 to 84
31323 2	252	22	9 to 40
31326 3	255mm	22	.35 to 6.0mm

General®

Feeler (Thickness) Gages

- Made of the finest high grade precision gage steel.
- Each leaf is etched with size numbers in thousandths for quick identification.
- Knurled lock nut holds the leaves in desired position.
- Gages conform to government specifications GGG-G-17b.



Straight Leaf

- 3" leaves are 1/2" wide.

UPC Code	No.	Leaves	Sizes
31300 3	209	9	.0015" to .015"
31306 5	226	26	.0015" to .025"

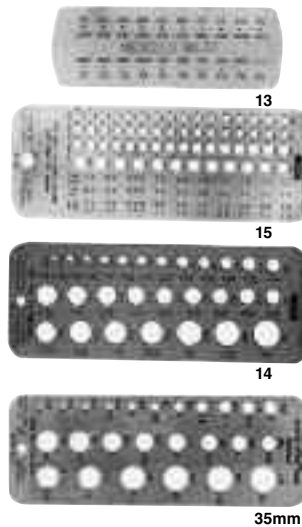
Taper Leaf

- 3" leaves taper from 1/2" to just 1/4" wide for working in confined spaces.

UPC Code	No.	Leaves	Sizes
31309 6	226T	26	.0015" to .025"

Drill Gages

- General's drill gages are used to quickly and conveniently identify drill bit sizes.
- Made of heavy gage steel, machined and ground to close tolerances.
- Hole sizes and decimal equivalents are permanently etched on the face.
- No. 13 is 3" x 1-1/8" wide; Nos. 14, 15 and 35mm are 5" x 2" wide.
- No. 14 conforms to government specifications GG-G-86b.



UPC Code	No.	
22003 5	12	Letter size drills A to Z
22006 6	13	3" x 1". Number size drills 61 to 80
22012 7	15	Number size drills 1 to 60
22009 7	14	Fractional size drills 1/16 to 1/2 x 64ths
23044 7	35mm	Metric size drills to 13mm x 0.5mm

Stainless Steel Radius Gages

- A handy method for checking internal and external radii of tools, patterns and dies.
- Each radius or fillet gage has both internal and external radii for easy application.
- Radius sizes are stamped on each gage.
- Packed in vinyl case with snap closure.
- Also available in 24 piece set without holder No. S435B or 24 piece set with holder No. S435BH.



UPC Code	No.	Size
	435	Small (1/32" to 17/64" by 64ths) Large (9/32" to 1/2" by 32nds)
31580 9	S435BH	16 small and 8 large sizes as above with holder

Wire Gage

- American Standard wire gage 0 to 36 used for gaging non-ferrous wire and metals such as copper, brass and aluminum.
- Chrome finished, heavy gage hardened and tempered tool steel.
- Decimal equivalents of each size are stamped on reverse side.
- 3-1/4" diameter, 3/32" thick.

UPC Code	No.
22036 3	20



Sheet Metal Gage

- For gaging uncoated sheet metal, plate iron, and steel.
- Gage numbers are U.S. Standard 0 to 36, based on weights in ounces per square inch.
- Decimal equivalents of each size are stamped on reverse side.
- Chrome finished, heavy gage tool steel is hardened and tempered.
- 3-1/4" diameter, 3/32" thick.
- Conforms to government specifications GG-G-86b.

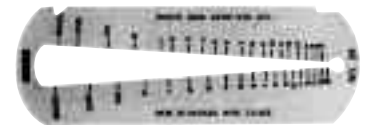
UPC Code	No.
22041 7	21



Screw and Wire Gage

- Front side measures American Standard wood screws No. 0 to 30 at one edge, wire and screw diameters from 1/16" to 7/16" on opposite edge.
- Reverse side is graduated for Old or English Wire Gage (BWG) from 17 to 0000 on one edge. New Standard or American Wire Gage (AWG) from 15 to 0000 on the opposite edge.
- Also includes 3" rule for measuring screw lengths.
- Measures 4" x 1-3/8"
- Made of stainless steel.

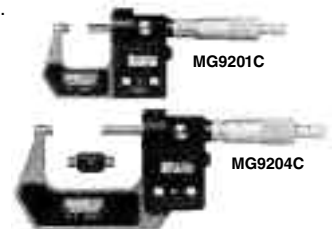
UPC Code	No.
22044 8	26



Ultratest® Electronic Micrometers

- Large LCD is easily read to .0001"/.001mm and has a .00005" indicator.
- True inch/metric conversion without zeroing.
- Micrometer operates as go/no-go gage with flashing LCD display.
- Makes true size or comparison measurements of part to master.
- Connects to the optional printer or interface.
- Features carbide tip anvils, satin chrome finish, ratchet thimble and locking knob.
- Self-contained power of 3,000 to 5,000 hours. Auto-off after four minutes of nonuse.
- Standard included with micrometers of over 1".
- Includes fitted case, two batteries (SR44G13) and instructors.

UPC Code	No.	Range (in)	Standard (in)
34145	MG9201C	0 to 1"	-
34150	MG9202C	1 to 2"	1"
34155	MG9203C	2 to 3"	2"
34160	MG9204C	3 to 4"	3"



Ultratest® Electronic Digital Caliper

- Outside, inside and depth measurements are quickly obtained and read out on the high contrast LCD display.
- Floating zero checks deviation from reference size, compensating for wear and eliminating recalibration.
- True inch/metric conversion without zeroing.
- Switchable inch/metric selector with resolution to .0005" or .01mm.
- Display indicates out of tolerance parts.
- Peak mode setting to indicate largest or smallest measurements of 2.
- Fully oil, dust and chip-proof.
- Body is hardened stainless steel, satin chromed with black scale divisions.
- Automatic shut off feature extends battery life to 12 months.
- Includes fitted case and two type SR44G13 batteries and instructors.
- Compatible with General's electronic printers or interface.



UPC Code	No.	Range (in)	Resolution Repeatability (in)	Accuracy (in)	Outside Jaws (in)	Inside Jaws (in)
34121	MG8206	0 - 6	.0005 .0005	.001	1.6	.700

Hand Tools

General®

Ultratest® Full Finish Micrometers

- Satin chrome finish frame and spindle.
- Accuracy .0001".
- .0001" graduations, .00003" flatness, .00005" parallelism.
- Decimal equivalents.
- With friction thimble.



UPC Code	No.	Range (in)
33265 3	MG1950C	0" to 1"

Ultratest® Depth Micrometers

- Base made of tool steel, hardened, precision ground and microlapped.
- Satin chrome finish.
- Ratchet stop for accurate repetitive measurement.
- .001" graduations, accuracy to .0003".
- Spanner wrench is included.
- Fitted wooden case.



UPC Code	No.	Range (in)	Base (in)	No. of Rods
33340 7	MG1723	0" to 3"	2-1/2"	3
33345 2	MG1726	0" to 6"	2-1/2"	6
33350 6	MG1743	0" to 3"	4"	3
33355 1	MG1746	0" to 6"	4"	6

Ultratest® 6" Dial Caliper

- Large clear dial accurately reads to .001".
- Satin chrome scale with clearly engraved tenths of inch/mm graduations.
- Covered rack ensures precision accuracy by preventing dirt and chips from entering rack mechanism.
- Meets or exceeds federal specifications for accuracy.
- Deluxe fitted case.



UPC Code	No.
33475 6	MG-JDC6

Ultratest® Single Revolution Dial Caliper

- Large dial with wider spaced graduations for easier reading.
- One revolution for each .100".
- Friction roller for rapid setting and easy adjustment; knurled lock for repetitive measurements and gaging.
- Satin chrome, non-glare 6" scale has micro fine graduations in tenths of inch/mm.
- Dual pinion mechanism reduces wear and covered rack prevents accumulation of dirt in gear teeth.
- Meets or exceeds federal specifications for accuracy.
- Fitted case for storage; comes with instructions.

UPC Code	No.
33457 2	MG6100

Ultratest® Vernier Calipers

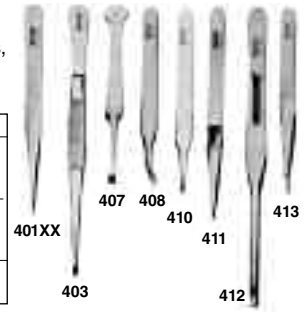
- Permanent black graduations.
- Satin chrome scale with 0-7" range.
- Ultra fine graduations, .001" bottom, 1/20mm top.
- Meets or exceeds federal specifications for accuracy.
- Case included.



UPC Code	No.	Thumb lock
33470 1	MG7002DC	Thumb lock

Industrial Tweezers

General's quality tweezers for toolmakers, repairmen, electronic assemblers and other professionals.



UPC Code	No.	Point Style	Length
42263 7	401XX	Strong Sharp	4-1/2"
42266 8	403	Blunt serrated	6"
42269 9	407	Blunt (soldering)	4"
42271 2	408	Sharp bent	4-1/4"
42280 4	410	Narrow sharp	4-1/4"
42283 5	411	Sharp (self closing)	4-3/4"
42286 6	412	Blunt (slide lock)	6-1/2"
42289 7	413	Sharp	4-1/2"

Mini Mechanical Pickup

- Strong three prong steel jaws retrieve small objects up to 1/2".
- Knurled 4-3/4" x 1/4" body with tapered point for hard-to-reach work areas.
- Smooth traveling plunger actuator for greater control.
- Chrome finish to prevent rust.
- Can be used as a screwstarter.



UPC Code	No.
42214 9	388

Jeweler's Screwdrivers

For jewelers, instrument makers, sub miniature parts assemblers, and model makers.

- Set of Six Jeweler's Screwdrivers
- Nickel plated blade sizes: .100", .080", .070", .055", .040", .025".
- Screw chucks have identification rings showing blade size.
- Overall length 3-7/8".
- Conforms to government specifications GGG-S-1808.
- Plastic case.

UPC Code	No.	Plastic Case
42568 3	SPC600	Plastic Case

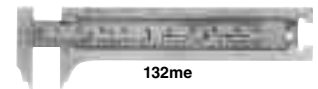


Individual Screwdrivers

UPC Code	No.	Blade Width (in)
42515 7	600-0	.100
42518 8	600-1	.080
42521 8	600-2	.070
42524 9	600-3	.055
42527 0	600-4	.040
42530 0	600-5	.025

Pocket Caliper

- Stainless steel slide caliper with inside and outside readings in metric and inches.
- Decimal equivalents.
- 3" capacity.



UPC Code	No.	Grads
44136 2	132me	32nds and mm

Utility Vernier Calipers

- Economical steel vernier calipers have 5" capacity.
- Inside and outside jaws and full-length depth gage.
- Friction roller adjustment.
- Slide lock for gaging.

Fractional scale vernier caliper

- Graduated in 16ths and 32nds of an inch with vernier reading of 1/128".



UPC Code	No.
42574 4	721

4 Power Pocket Illuminated Magnifier

- Handy 4 power magnifier has plastic body and lens.
- Replaceable bulb and batteries are included.

UPC Code	No.	Power
42456 3	553/1	Ind. Carded
42447 1	553BB	Replace bulb 2-batteries



General®

4" Illuminated Magnifier

- 4" diameter with 3-power lens covers large areas of print.
- 5-power bifocal lens insert gives even greater magnification.
- Bulb gives wide circle of illumination.
- Plastic body and optical plastic lens.
- Replaceable bulb and batteries included.

UPC Code	No.	Power	Focal Lgth. (in)
42462 4	554	3.0	3-1/3"
	Bifocal	5.0	2"



Oblong Illuminated Magnifier

- Lens measures 2" x 4" for distortion free magnification of large areas.
- Reversible light reflector adapts for right or left-hand use.
- 2.5 power shatterproof lens, with 5 power bifocal insert.
- Replaceable bulb and batteries are included.

UPC Code	No.	Power	Focal Lgth. (in)
42509 6	565	2.5	4"
	Bifocal	5.0	2"



Inspection Mirrors

- These mirrors facilitate inspection of inaccessible workpieces and machines by toolmakers, assemblers, inspectors, and mechanics.
- Fully polished mirrors are enclosed in plated holders which are attached to knurled handles with ball socket joints.
- Nos. 557 and 560 have telescoping arms and vinyl cushion grip handles.



UPC Code	No.	Size (in)	Overall Lgth. (in)
42465 5	555	1-1/4" dia.	8"
42468 6	557	2-1/4" dia.	10-1/2" extends to 15"
42471 6	558	1" by 2" oval	9"
42473 0	560	3-1/2" x 2" oblong	11-1/2" extends to 16"

Button Type Alnico Magnets

- Button shaped magnet has almost unlimited applications.
- Retrieves screws and steel parts.
- Center hole in top of magnet for easy fastening.

UPC Code	No.	Dia. (in)	Ht. (in)	Pull (lbs)	Cored Hole (in)
42073 2	372A	1/2"	3/8"	1-1/2	1/8"
42076 3	372B	3/4"	1/2"	4	1/8"
42079 4	372C	1"	5/8"	6-1/2	3/16"
42082 4	372D	1-1/4"	3/4"	14	1/4"
42085 5	372E	1-1/2"	7/8"	18-1/2	3/16"



Pocket Horseshoe Alnico Magnets

- Small but powerful magnet.
- For retrieving small steel parts and screw from hard-to-get-at places.

UPC Code	No.	Size (oz)	Pull (lbs)	Opening Between Poles (in)
42039 8	371	1/2	1	1/4"
42041 1	370-1	1	2-1/4	1/4"



Power Alnico Magnets

- Strong magnetic pull for lifting, holding, sorting, clamping, or retrieving steel or iron parts.
- Hole in top of magnet for attaching conveyors, racks and welding jigs.



UPC Code	No.	Size (oz)	Approx. Pull (lbs)	Width (in)	Height (in)	Depth (in)	Pole Width (in)	Opening Between Poles (in)	Cored Hole (in)	Oz. Each w/ Keeper
42044 2	370-2	2	13	1-1/8	3/4	3/4	1/4	9/16	3/16	3
42047 3	370-3	3	17	1-5/16	1-3/8	5/8	3/8	5/16	-	4
42050 3	370-4	4	22	1-1/2	1	1	5/16	3/4	3/16	5
42053 4	370-6	6	30	1-3/4	1-1/8	1-1/8	5/16	7/8	3/16	8
42056 5	370-8	8	32	2-3/16	1-13/16	15/16	1/2	1-3/16	3/16	10
42059 6	370-10	10	37	2-7/16	2	15/16	5/8	1-3/16	1/4	13
42061 9	370-12	12	42	2-5/8	2-1/4	15/16	5/8	1-3/8	1/4	15
42064 0	370-16	16	50	3	2-1/2	15/16	3/4	1-1/2	1/4	20
42067 1	370-24	24	70	2-1/2	1-13/16	1-7/8	5/8	1-3/8	1/4	28

Magnetic Adjustable Welding Links

- For holding steel plates in position for welding, brazing and soldering.
- Eliminates need for clamps or temporary fastening.
- Constructed of two heavy duty Alnico magnetic blocks linked together with strong steel bar and wing nuts for easy angle adjustment.



UPC Code	No.	Size of Block	Wt. (lbs)
42108 1	375	2" x 1" x 1"	1-1/2

Extra-Long, Magnetic Pickup w/Pivot Joint

- An excellent tool for retrieving steel parts from hard-to-reach places.
- High-power neodymium magnet lifts up to five pounds and will never lose its magnetism.
- Steel body measures 13" and can be extended to 27".
- Locking pivot joint allows user to pick up objects around corners.
- Body is chrome plated with a vinyl cushion grip handle.

UPC Code	No.	Pull (lbs)
42228 6	394	5



Telescoping High-Power Magnetic Pickup

- A powerful permanent magnetic pickup tool.
- Ideal for retrieving steel and iron parts from hard-to-reach work areas.
- Magnet is fitted in a 5-1/2" long nickel-plated steel handle that can extend up to 23-1/2".
- Holder is fitted with a pocket clip.

UPC Code	No.	Pull
42206 4	383X	6 oz.
42208 8	383NX	2 lbs.



Flexible Magnetic Pick Up

- An excellent tool for retrieving steel parts from hard-to-reach places.
- High-power neodymium magnet is six times more powerful than a cobalt magnet of the same size and density.
- Knurled aluminum body with flexible 15" wire.
- Overall length is 20".
- Lifts up to 2 pounds.

UPC Code	No.	Pull (lbs)
42229 3	395	2



Glass cutter

- Cuts plate glass from 1/8" to 1/4" thick.
- Steel wheel with honed angle of 120-degrees for cutting single and double strength glass.
- Ball end handle for snapping of scored glass.
- Tooth design to remove rough edges.

UPC Code	No.	Length
43061 8	8501	5"



Hand Tools

Greenlee®

Greenlee®

BENDING & CUTTING PRODUCTS

SITE-RITE® Heat-Treated Aluminum and SITE-RITE II® Malleable Iron Hand Benders

Both Benders feature:

- Handle straight up and down for 30° bends.
- Patented sight indicator on bender is a key feature for bending angles fast and easy.
- Non-slip, contoured pedal for added leverage.
- Strong, stable square hook design.
- Cast-in markings for stub-ups, saddle bends, back-to-back bends and head-up or down bending.

SITE-RITE® Aluminum Benders feature:

- Special design and heat-treated aluminum construction make this patented hand bender significantly stronger.
- Cast-in offset multipliers.

Centerline Bending Radii

EMT (in)	Rigid IMC (in)	Centerline Radii (in)	Heat-Treated Aluminum	Malleable Iron
1/2		4-3/16	840, 840H	8840, 8840H
3/4	1/2	5-1/8	841, 841H	8841, 8841H
1	3/4	6-1/2	842, 842H	8842, 8842H
1-1/4	1	11	843	-
1-1/4	1	9-5/8	-	8843



Cat. No.	UPC No.	Description
840	23533	SITE-RITE® Hand Bender for 1/2" EMT
841	23392	SITE-RITE® Hand Bender for 3/4" EMT, 1/2" Rigid, IMC
842	23564	SITE-RITE® Hand Bender for 1" EMT, 3/4" Rigid, IMC
843	23667	SITE-RITE® Hand Bender for 1-1/4" EMT, 1" Rigid, IMC
840H	32917	SITE-RITE® Hand Bender with handle for 1/2" EMT
841H	32918	SITE-RITE® Hand Bender with handle for 3/4" EMT, 1/2" Rigid
842H	32919	SITE-RITE® Hand Bender with handle for 1" EMT, 3/4" Rigid
8840	35094	SITE-RITE II® Hand Bender for 1/2" EMT
8841	35095	SITE-RITE II® Hand Bender for 3/4" EMT, 1/2" Rigid, IMC
8842	35096	SITE-RITE II® Hand Bender for 1" EMT, 3/4" Rigid, IMC
8843	35097	SITE-RITE II® Hand Bender for 1-1/4" EMT, 1" Rigid, IMC
8840H	35482	SITE-RITE II® Hand Bender with handle for 1/2" EMT
8841H	35483	SITE-RITE II® Hand Bender with handle for 3/4" EMT, 1/2" Rigid
8842H	35484	SITE-RITE II® Hand Bender with handle for 1" EMT, 3/4" Rigid
845	25567	Handle for 1/2" and 3/4" hand benders
846	25568	Handle for 1" hand benders

NOTE: The 843 and 8843 Hand Benders require the addition of a 5' (1.5m) length of 1-1/4" Rigid conduit threaded one end for a handle.

HICKEYS with Welded Handles

- Heavy-duty cast steel head.
- Welded steel handle.
- Bend tight radius stub-ups.

Cat. No.	UPC No.	Description
508	18102	Hickey for 1/2" Rigid
512	18103	Hickey for 3/4" Rigid
516	18104	Hickey for 1" Rigid



Little Kicker® Offset Bender

- Bends offsets in one easy operation. Insert conduit, depress handle completely, release and remove conduit.
- Makes identical offsets every time for wall mounted boxes with exposed conduit.

Cat. No.	UPC No.	Description
1810	13815	Offset Bender for 1/2" EMT
1811	14159	Offset Bender for 3/4" EMT



Mechanical Benders for IMC and Rigid Conduit

- Ratchet action for increased leverage.
- Bypass the ratchet for fast, direct bending on smaller sizes.
- Heavy-duty welded construction for long, reliable service.
- Built-in bending degree indicator and easy to use bending charts for accurate, consistent bends.

Centerline Bending Radii

1800, 1800G1	1/2" Rigid Conduit	2-5/8"
	3/4" Rigid Conduit	4-5/8"
	1" Rigid Conduit	5-7/8"
1801, 1801G1	1-1/4" Rigid Conduit	8-1/16"
	1-1/2" Rigid Conduit	9-11/16"



Cat. No.	UPC No.	Description
1800	24400	Mechanical Bender for 1/2", 3/4", 1" IMC and Rigid conduit
1800G1	24401	Mechanical Bender w/o undercarriage, for bench or truck bed mounting. Bends 1/2", 3/4", 1" IMC and Rigid conduit
1801	24753	Mechanical Bender for 1-1/4", 1-1/2" IMC and Rigid conduit
1801G1	24507	Mechanical Bender w/o undercarriage, for bench or truck bed mounting. Bends 1-1/4", 1-1/2" IMC and Rigid conduit
32416	32416	Undercarriage Unit for 1800
32416	32416	Undercarriage Unit for 1801

Use a 5' (1.5 m) length of 1" Rigid conduit for the handle.

Electric Conduit Bender for 1/2" to 2" EMT, IMC, Rigid and Rigid Aluminum

- Bends a variety of types and sizes of conduit.
- Intelligent pendant controls: Standard (included), digital readout and programmable bend angles for accurate repeat bends. Deluxe (optional), interactive control – calculates complete layout measurements for various types of bends.
- Bends 1/2" to 2" EMT, IMC, Rigid and Rigid aluminum conduit without any shoe changes. No loose parts to get lost.
- Two operating positions; table top and upright.
- Optional shoes available to bend PVC coated steel conduit.
- Adjustable leveler pads.
- Excellent portability. Convenient lifting eyes.
- Weather resistant construction.

Centerline Bending Radii

Shoe Size	Inches	Shoe Size	Inches
1/2" EMT	4-5/16"	1-1/4" EMT	8-13/16"
1/2" IMC/Rigid	4-1/4"	1-1/4" IMC/Rigid	8-3/4"
3/4" EMT	5-1/2"	1-1/2" EMT	8-3/8"
3/4" IMC/Rigid	5-7/16"	1-1/2" IMC/Rigid	8-1/4"
1" EMT	7"	2" EMT	9-1/4"
1" IMC/Rigid	6-15/16"	2" IMC/Rigid	9"



Cat. No.	UPC No.	Description
855	08550	Smart Bender™ for 1/2" - 2" EMT, IMC and Rigid conduit (includes Standard Pendant)
38650	38650	Deluxe Pendant for older bender with serial code ZW
01711	01711	Deluxe Pendant for current bender with serial code ABL
38863	38863	Standard Pendant for older bender with serial code ZW
01648	01648	Standard Pendant for current bender with serial code ABL
38780	38780	Shoe Unit, 1/2" - 1-1/4"
38148	38148	Shoe Unit, 1-1/2" - 2"
01700	01700	PVC Shoe Unit, 1/2" - 2" for bender with serial code ABL only
38962	38962	Vinyl Rain Cover

Greenlee®

Electric Conduit Bender for 1/2" thru 2" Conduit and Pipe

- Fast and easy way to bend up thru 2" conduit.
- Remote pendant control and bending data charts for easy, accurate bends.
- Simple setup and easy operation for correct, consistent bends.
- Portable, has large handle, excellent balance and heavy duty wheels.
- Squeeze adjustment to compensate for variations in EMT conduit.
- Will make 180° one shot bends in 1/2" thru 2" Rigid conduit.



Cat. No.	UPC No.	Description
555*	39780	Electric Bender power unit without bending accessories
555R	23446	Electric Bender with shoe groups for 1/2" thru 2" Rigid and 1/2" thru 1-1/4" IMC conduit and pipe includes 26007-1/2"-2" Rigid Shoe Group and two 53389-Hinge Pins
555E	27989	Electric Bender with shoe group for 1/2" thru 2" EMT conduit Includes 23802-1/2"-2" EMT Shoe Group and two 53389- Hinge Pins
555I	27990	Electric Bender with shoe group for 1-1/2" and 2" IMC conduit Includes 26330-1-1/2" - 2" IMC Shoe Group and two 53389- Hinge Pins
555-22	39971	220 VAC 50/60 Cycle Electric Bender power unit w/o bending accessories
53389	53389	Hinge Pin for 555 & 555-22

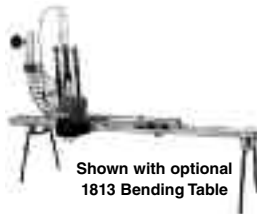
Cam Track® Conduit Benders for 2-1/2" to 4" EMT, IMC and Rigid

- One bender to bend EMT, IMC and Rigid Conduit.
- Fast and easy set-up on the job site.
- True one shot 90° bends with CT models for quick accurate bends.
- Steel reinforced follow bars for long life.
- Bend a 90° elbow in 4" Rigid conduit in 95 seconds.
- Optional 1813 Bending Table and accessories for easier operation.
- Patented.

Centerline Bending Radii

Size (in)	861		881 CT, 881 CTD, 881 BASIC	
	Centerline Radius (in)	Centerline Radius (in)	Shoe Group	Degree of Bend
2-1/2	13-1/2	13-1/2	27554	90
3	16	16	27555	90
3-1/2	18-5/8	18-5/8	31281	90
4	21	20-7/8	31274	90
3-1/2		18-5/8	27556	45
4		21	27557	45

#881 Basic Only



Cat. No.	UPC No.	Description
881CT	31287	Cam Track® Conduit Bender for One Shot 90° Bends in 2-1/2", 3", 3-1/2" and 4" EMT, IMC and Rigid conduit, without hydraulic pump
881CT-E980	34208	Cam Track® Conduit Bender for One Shot 90° Bends in 2-1/2", 3", 3-1/2" and 4" EMT, IMC and Rigid conduit, with 980 Electric Hydraulic Pump
881CTD	38466	Cam Track® Conduit Bender for One Shot 90° Bends in 2-1/2", 3" and 4" EMT, IMC and Rigid conduit, without hydraulic pump
881 CTD-E980	38467	Cam Track® Conduit Bender for One Shot 90° Bends in 2-1/2", 3" and 4" EMT, IMC and Rigid conduit, with 980 Electric Hydraulic Pump
881	27778	Conduit Bender for One Shot 90° bends in 2-1/2" and 3", Two Shot 90° Bends in 3-1/2" and 4" EMT, IMC and Rigid conduit, without hydraulic pump
881-E980	34205	Hydraulic Conduit Bender for One Shot 90° Bends in 2-1/2" and 3", Two Shot 90° Bends in 3-1/2" and 4" EMT, IMC and Rigid conduit, with 980 Electric Hydraulic Pump
881 BASIC	35711	Conduit Bender without shoe groups or hydraulic pump
27554	27554	2-1/2" - One Shot 90° EMT, IMC, Rigid Shoe Group
27555	27555	3" - One Shot 90° EMT, IMC, Rigid Shoe Group
31281	31281	3-1/2" - One Shot 90° EMT, IMC, Rigid Shoe Group
27556	27556	3-1/2" - 45° EMT, IMC, Rigid Shoe Group (requires 2 bends to make a 90°)
31274	31274	4" - One Shot 90° EMT, IMC, Rigid Shoe Group
27557	27557	4" - 45° EMT, IMC, Rigid Shoe Group (requires 2 bends to make a 90°)
1813	28901	Bending Table for 881 Series Bender
881A	27553	Converts 884 or 885 to an 881

Rigid Conduit Bender for 1", 1-1/4", 1-1/2" & 2"

- Strong, portable pin-assembled aluminum components.
- Easy-to-use ram travel scale and bending charts.
- Conduit supports index to suit all sizes.
- Model available to bend PVC coated rigid conduit.



Centerline Bending Radii for 880 & 880 PVC Benders

Rigid Shoe Size	1/2"	3/4"	1"	1-1/4"	1-1/2"	2"
Bending Radius-Inches	4"	4-1/2"	5-3/4"	7-1/4"	8-1/4"	9-1/2"
Bending Radius-cm	10.16	11.43	14.60	18.41	20.95	24.13

Cat. No.	UPC No.	Description
880	16480	1", 1-1/4", 1-1/2" & 2" Rigid Conduit Bender w/o hydraulic pump
880H755	16464	1", 1-1/4", 1-1/2" & 2" Rigid Conduit Bender w/ 755 Hand Hydraulic Pump
880E975	34200	1", 1-1/4", 1-1/2" & 2" Rigid Conduit Bender w/ 975 Electric Hydraulic Pump
880PVC	33613	1", 1-1/4", 1-1/2" & 2" 40 Mil PVC Coated Rigid Conduit Bender w/o hydraulic pump
1802	21257	Bending Table
21357	21357	Conduit Support Pin for use w/ 1802 Bending Table - (2) Required
10917	10917	1/2" Shoe
10918	10918	3/4" Shoe

Note: Please call for information on individual parts.

PVC Heating Blankets for up to 4", All schedules

- Make bends, offsets or saddles in PVC fast and easy.
- Easy to use: wrap blanket around PVC, secure with hook and loop strap. Built-in stiffeners help keep the blanket tight to the PVC surface. Remove blanket and form bend by hand.
- Controlled, even heating for uniform bending.
- Tough cord and thermostat for long life.
- Temperature over 300° F.



Cat. No.	UPC No.	Description
860-1-1/2	31486	PVC Heating Blanket for up to 1-1/2"
860-3	31487	PVC Heating Blanket for 2" - 3"
860-4	31488	PVC Heating Blanket for 3-1/2" and 4"

Specifications:

	860-1-1/2	860-3	860-4
Capacity:	Up to 1-1/2" PVC All Schedules	2" - 3" PVC All Schedules	3-1/2" - 4" PVC All Schedules
Power Source:	120 VAC	120 VAC	120 VAC
Size:	13" x 8-1/4"	30" x 13-1/4"	38" x 16-1/4"
Weight:	1.7 lbs.	3.3 lbs.	4.9 lbs.

Electric PVC Heater/Bender for 1/2" - 2", All schedules

- Easy to use: preheat for 10 minutes, insert PVC, rotate until pliable, remove and form bend.
- Sturdy double wall metal with fiberglass insulation and reflective interior for fast even heat.
- Full length door for easy PVC loading and removal.
- Other features include on/off switch, pilot light and carrying handle.

Cat. No.	UPC No.	Description
849	27395	Electronic PVC Heater for 1/2" - 2"
27811	27811	Calrod Heating Element



Specifications:

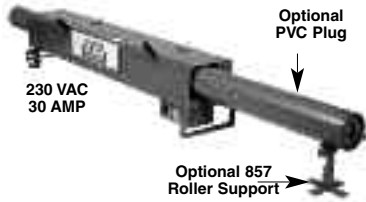
Capacity:	1/2" - 2" PVC All Schedules
Power Source:	120 VAC 20 AMP or 3000 Watt Generator
Weight:	15 lbs.

Hand Tools

Greenlee®

Electric PVC Heater/Bender for 1/2" - 6", All schedules

- Easy to use: preheat for 10 minutes, open lid and position PVC, close lid, rotate until pliable, open lid, remove PVC and form bend. 848 model has motorized rotation.
- Heavy duty metal construction with reflective interior for fast, efficient heating.
- Has heating chart, timer, and on/off switch with indicator light for added convenience.
- Double doors with piano hinges allow heating shorter lengths with one door open.
- Sturdy wheels for easy mobility.



Cat. No.	UPC No.	Description
847	30866	Electric PVC Heater / Bender for 1/2" - 6"
848	30867	Electric PVC Heater Bender with Motorized PVC Rotation for 1/2" - 6" All Schedules
31092	31092	Motorized PVC rotation kit for 847
857	31093	PVC Roller Support
30908	30908	Calrod Heating Element

Specifications:

Power Source: 230 VAC 30 AMP or 7000 Watt Generator
Length: 71 in.
Weight: 847 - 78 lbs. / 848 - 80 lbs.

PVC Cutter for up to 1-1/4"

- Ratchet action for fast, easy cutting.
- Heat-treated, replaceable steel blade for long cutting life.
- Rugged metal alloy frame for durability.

Cat No.	UPC No.	Description
864	04253	PVC Cutter for up to 1-1/4"
00355	00355	Replacement Blade Kit

Specifications:

Capacity: up thru 1-1/4" PVC
Weight: .9 lbs.



Flex Splitter® BX and Flexible Conduit Cutter

- Cut flexible metal conduit in seconds with a few turns of the crank and an easy twist of the conduit.
- Ample clearance between handle and body for comfortable operation.
- Cut flexible metal conduit in seconds with a few turns of the crank and an easy twist of the conduit.
- Ample clearance between handle and body for comfortable operation.
- Set conduit size for multiple cuts of the same size conduit. No need to reset.
- Compact and lightweight. Fits easily in back pocket or tool pouch.
- Set blade adjustment with only a screwdriver.
- Convenient in-handle blade storage - holds up to five spare blades.



Cat No.	UPC No.	Description
1940	34953	Flex Splitter® Flexible Metal Conduit Cutter
1941-1	33735	Single Blade Replacement Blade for 1940
1941-5	00288	5 Pack Replacement Blades for 1940

Specifications:

Capacity: 14/2 to 10/4 BX 3/8" flexible metal conduit
Weight: 1940 - 4 lbs.

HOLEMAKING:

Knockout Punches

- The contractor's choice - worldwide.
- Unique punch profile splits slugs allowing easy slug removal.
- Use with manual, ratchet, hydraulic or battery powered drivers.
- Uses standard Greenlee dies and draw studs.
- Available in sizes up thru 2.52"
- U.S. Patent #4,543,722



Unique Slug Buster® punch design creates slug as the punch is drawn into the die.



Slug is split in half as punching operation is completed.



Split slugs fall free from the die and stud.

Specifications:

Capacity: Mild steel up thru 10 gauge.
Application: Punch mild steel, aluminum, fiberglass and plastic.
Hole Size:
Conduit Sizes - Hole size is outside diameter of US conduit sizes. Example: 1/2" conduit size punch actually makes a 7/8" hole.
Pg Sizes - European standard pipe sizes. (not shown, call for Pg specs)
ISO Sizes - International Standards Organization pipe sizes.
Operation: Operate manually, or with ratchet, hydraulic or battery drivers. When used with ratchet, hydraulic or battery drivers, buy the punch and die only; the draw stud is part of the driver kit

"Custom Size" punches and dies available. Please contact us with your requirements.

Punch Unit*	Conduit Pipe Size (in)	Hole Size			Cap. Mild Steel GA.	Wt. (lbs)
		in	Actual in	ISO		
7211B-1/2	31962	1/2	7/8	0.885	-	10 0.3
7211BB-3/4	31963	3/4	-	1.115	-	10 0.8
7211BB-1	31964	1	-	1.362	-	10 1
7211BB-1-1/4	31965	1-1/4	-	1.701	-	10 1.3
7211BB-1-1/2	31966	1-1/2	-	1.951	-	10 2.1
7211BB-2	31967	2	2-3/8	2.416	-	10 3.2

* Punch Unit Includes: Punch, Die & Draw Stud
- Please call for information on replacements for these items

Knockout Punch Kits for Ratchet/Hydraulic Drivers

- Boxed in carton for easy insertion into your existing case.
- Replacement punch kits for ratchet, hydraulic & battery powered drivers.



Cat. No.	UPC No.	Desc.	Conduit & Pipe Size (in)	Hole Size			Cap.-Mild Steel GA
				(in)	(in)	ISO	
721-1/2	31756	1/2" Conduit Size Punch	1/2	7/8	.885	-	10
721-3/4	31757	3/4" Conduit Size Punch	3/4	-	1.115	-	10
721-1	31758	1" Conduit Size Punch	1	-	1.362	-	10
721-1-1/4	31759	1-1/4" Conduit Size Punch	1-1/4	-	1.701	-	10
721-1-1/2	31760	1-1/2" Conduit Size Punch	1-1/2	-	1.951	-	10
721-2	31761	2" Conduit Size Punch	2	2-3/8	2.416	-	10

Greenlee®

Manual Knockout Kit with Ratchet Wrench

- 1" Hex Ratchet Wrench allows use with both 3/8" and 3/4" draw studs.
- High impact rugged plastic carrying case.



Cat. No.	UPC No.	Description	Cap. Mild Steel		Wt. (lbs)
			GA	(lbs)	
7238SB	34757	1/2" - 2" Conduit Size Manual SlugBuster® Knockout Punch Kit	10	10	

7238SB/34757 Slug Buster® Knockout Punch Kit Includes:

Cat. No.	UPC No.	Description	Hole Size		Wt. (lbs)
			Actual	(in)	
34941	34941	Ratchet wrench - 1" Hex			
721-1/2	31756	1/2" Conduit Size Punch	7/8	.885	
14722	14722	1/2" Conduit Size Die	7/8	.885	
721-3/4	31757	3/4" Conduit Size Punch	-	1.115	
124AV	06972	3/4" Conduit Size Die	-	1.115	
721-1	31758	1" Conduit Size Punch	-	1.362	
126AV	04011	1" Conduit Size Die	-	1.362	
721-1-1/4	31759	1-1/4" Conduit Size Punch	-	1.701	
128AV	04013	1-1/4" Conduit Size Die	-	1.701	
721-1-1/2	31760	1-1/2" Conduit Size Punch	-	1.951	
440AV	04061	1-1/2" Conduit Size Die	-	1.951	
721-2	31761	2" Conduit Size Punch	2-3/8	2.416	
442AV	04063	2" Conduit Size Die	2-3/8	2.416	
00042	00042	Ball Bearing Draw Stud w/1" Hex Head-3/8" x 3"			
304AVBB	04042	Draw Stud-3/4" x 2-15/16"			
34758	34758	Plastic Case			

Manual Knockout Punch Kits

7235BB



- Assortment of commonly used Slug Buster® knockout punches, packaged to meet the contractor's needs.
- High impact rugged plastic carrying case.

Cat. No.	UPC No.	Description	Cap. Mild Steel		Wt. (lbs)
			GA	(lbs)	
7235BB	32013	1/2" - 1-1/4" Conduit Size Manual Slug Buster® Knockout Punch Kit	10	2.7	
7237BB	30214	1-1/2" and 2" Conduit Size Manual Slug Buster® Knockout Punch Kit	10	5.2	

7235BB/32013 Slug Buster® Knockout Punch Kit Includes:

Cat. No.	UPC No.	Description	Hole Size		Wt. (lbs)
			Actual	(in)	
721-1/2	31756	1/2" Conduit Size Punch	7/8	.885	
14722	14722	1/2" Conduit Size Die	7/8	.885	
32AVBB	04045	Draw Stud-3/8" x 1-9/16"			
721-3/4	31757	3/4" Conduit Size Punch	-	1.115	
124AV	06972	3/4" Conduit Size Die	-	1.115	
721-1	31758	1" Conduit Size Punch	-	1.362	
126AV	04011	1" Conduit Size Die	-	1.362	
721-1-1/4	31759	1-1/4" Conduit Size Punch	-	1.701	
128AV	04013	1-1/4" Conduit Size Die	-	1.701	
249AVBB	04040	Draw Stud-3/4" x 2-1/8"			
31880	31880	Plastic Case			

7237BB/32014 Slug Buster® Knockout Punch Kit Includes:

Cat. No.	UPC No.	Description	Hole Size		Wt. (lbs)
			Actual	(in)	
721-1-1/2	31760	1-1/2" Conduit Size Punch	-	1.951	
440AV	04061	1-1/2" Conduit Size Die	-	1.951	
721-2	31761	2" Conduit Size Punch	2-3/8	2.416	
442AV	04063	2" Conduit Size Die	2-3/8	2.416	
304AVBB	04042	Draw Stud-3/4" x 2-15/16"			
32012	32012	Plastic Case			

Hydraulic Punch Driver and Kit

The Quick Draw™ and the Quick Draw 90™ feature:

- Optional step-saver adapter converts standard Greenlee punches thru 1-1/4" conduit size to use 7/16" draw stud (adapter and draw stud included with 7804SB only).
- Compact, lightweight design for portability & fast, easy one-person operation.
- Develops 8 tons of hydraulic force for easy punching, even in 10-gauge stainless steel depending on individual punch capacities.
- Quick Draw is perfect for fast, straight-on front panel punching.
- Quick Draw 90's right angle driver head rotates over 180 degrees for maximum flexibility in tight working areas.



Cat. No.	UPC No.	Description	Wt. (lbs)
7804SB	34292	Quick Draw™ Driver, 3 draw studs, 2 adapters, 1 spacer & case	10
7806SB	34293	Standard- Quick Draw™ Driver, 1/2" thru 2" Slug Buster® conduit size punches & dies 2 draw studs, 1 adapter, 1 spacer & case	14
7804E	34291	Metric - Quick Draw™ Driver, 2 draw studs, 1 adapter, 1 spacer & case	9.4
7804ESB	35611	Metric - Quick Draw™ Driver, Slug-Buster® Pg punches & dies 15.2 mm thru 30.5 mm, 2 draw studs, 1 adapter, 1 spacer & case	10.3
7804ISO	35614	Metric - Quick Draw™ Driver, Slug-Buster® ISO punches & dies 16.2 mm thru 40.5 mm, 2 draw studs, 1 adapter, 1 spacer & case	11.4
7904SB	33794	Quick Draw 90™ Driver, 2 draw studs, 1 adapter, 1 spacer & case	10
7906SB	34300	Quick Draw 90™ Driver, 1/2" thru 2" Slug-Buster® conduit size punches, dies and draw studs & case	14
7904E	34299	Metric - Quick Draw 90™ Driver, 2 draw studs, 1 adapter, 1 spacer and case	11
7904ES8	35615	Metric - Quick Draw 90™ Driver, Slug-Buster® Pg punches & dies 15.2 mm thru 30.5 mm, 2 draw studs, 1 adapter, 1 spacer & case	11
7904ISO	35616	Metric - Quick Draw 90™ Driver, Slug-Buster® ISO punches & dies 16.2 mm thru 40.5 mm, 2 draw studs, 1 adapter, 1 spacer & case	12.2

Battery Powered Knockout Punch Driver Kits

- Punches a hole for 2" conduit in only 12 seconds.
- Angled pistol grip allows easy one handed control and positioning.
- Tool senses when the hole is completely punched and automatically shuts off to prevent damage to the punch and die.
- Develops 6.7 tons of hydraulic force, capable of punching up to 2" conduit size holes in 10 gauge mild steel and 12 gauge stainless steel.
- Three choices of battery chargers - 115 volt, 220 volt or 12 volt. Punches approximately 80-1/2" conduit size holes or 40 2" conduit size holes in 10 gauge mild steel per battery charge.

Specifications:

Wt. (driver with battery only):	8.25 lbs.
Overall Lgth. (ram retracted):	10.3"
Height:	11.5"
Max. Punch Force:	6.7 tons
Max. Round Punch Size:	2.42" dia. (in 10 gauge mild steel)
Max. Square Punch Size:	2-11/16" x 2-11/16" (in 10 gauge mild steel)
Max. Rectangular Punch Size:	1.378" x 2.559" (in 10 gauge mild steel)
Max. Ram Travel:	0.87"
Charging Time:	Approx. 1 hr.
Battery Voltage:	12 volts NiCd



Cat. No.	UPC No.	Description	Wt. (lbs)
LS6011A	03557	Battery powered driver with 115 volt charger, 2 batteries, 3 draw studs, 2 adapters, and 1 spacer and case	23
LS6012A	03558	Battery powered driver with 12 volt charger, 2 batteries, 3 draw studs, 2 adapters, and 1 spacer and case	23
LS6022A	03559	Battery powered driver with 220 volt charger, 2 batteries, 3 draw studs, 2 adapters, and 1 spacer and case	23
LS6011B	04311	Battery powered driver with 115 volt charger, 2 batteries, 1/2" thru 2" Slug Buster® conduit size punches, 3 draw studs, 2 adapters, and 1 spacer and case	27
LS6012B	04661	Battery powered driver with 12 volt charger, 2 batteries, 1/2" thru 2" Slug Buster® conduit size punches, 3 draw studs, 2 adapters, and 1 spacer and case	27
LS6022B	04312	Battery powered driver with 220 volt charger, 2 batteries, 1/2" thru 2" Slug Buster® conduit size punches, 3 draw studs, 2 adapters, and 1 spacer and case	27

Hand Tools

Greenlee®

Ram and Hand Pump Hydraulic Driver Kits (inch and Metric)

- Fast, easy and simple to operate.
- Compact design for field use on construction sites & maintenance jobs.
- Punches 10 times faster than wrench method.
- Will also drive 751 Cable Cutter head.
- Can be used with all standard round, Slug-Buster® & Slug-Splitter® punch sizes.
- 3-foot hose.
- Powerful 11-ton hydraulic ram.



Cat. No.	UPC No.	Description	Wt. (lbs)
7646	15906	Driver, hand pump, draw studs, adapter, spacers, Kwik Stepper® Step Bit & plastic case	20
7306SB	34360	Driver, hand pump, Slug Buster® punches, dies & draw studs for 1/2" thru 2" conduit, adapter, spacers, Kwik Stepper® Step Bit & plastic case	24
7310SB	34361	Driver, hand pump, Slug Buster® punches, dies & draw studs for 1/2" thru 2" and 2-1/2" thru 4" standard conduit size punches, punches dies & draw studs, adapter, spacers, Kwik Stepper® Step Bit & steel case	54
7646PgSB	32799	Metric - Driver, Slug Buster® Pg punches, dies & draw studs for 15.2 mm thru 60.0 mm, adapter, spacers, Kwik Stepper® Step Bit & plastic case	24
38520	38520	Driver, hand pump, Slug Buster® punches & draw studs for 1/2" thru 3" and 4" conduit, adapter, spacers, Kwik Stepper® Step Bit & steel case	48

Knockout Punches

- Slug Splitter® heavy-duty punches are designed to punch up thru 10 gauge stainless steel.
- Unique slug splitting design and tool steel construction easily punch 10 gauge mild steel & stainless steel.
- Heavy-duty dies & stainless steel draw studs for longer life.
- Excellent abrasion resistance for punching fiberglass & plastic.
- U. S. Patent No. 4,543,722



PUNCH		DIE		Hole Size		Cap. Stainless Steel GA.	DRAW STUDS		
Cat./UPC No.	Cat./UPC No.	Conduit & Pipe (in)	Actual (in)	Actual (in)	Hydraulic Drivers 7804/7904		7646/7625	Ratchet Drivers* 1904	
31117	31126	-	-	.598	12	29451	29451	30227	
31119	31128	-	-	.732	12	29451	29451	30227	
31120	31129	-	-	.803	12	29451	29451	30227	
28154	28155	1/2	7/8	.885	10	29451	29451	30227	
28156	28157	3/4	-	1.115	10	31872	29452	12098	
36490	36489	-	1-7/32	1.210	10	31872	29452	12098	
28158	28159	1	1-11/32	1.362	10	31872	29452	12098	
31122	31135	-	-	1.457	10	31872	29452	12098	
28160	28161	1-1/4	1-11/16	1.701	10	31872	29452	12098	
31123	31131	-	-	1.850	10	-	29452	12098	
28162	28163	1-1/2	1-15/16	1.951	10	-	29452	12098	
31124	31132	-	-	2.125	10	-	29452	12098	
31125	31133	-	-	2.362	10	-	29452	12098	
28165	28166	2	2-3/8	2.416	10	-	29452	12098	

* 16 ga. stainless steel capacity with ratchet driver
Note: Slug Splitter® Punch Units are also available & consist of: punch, die and draw stud. Check individual punch for specific capacity. Call for more details.

Ram and Hand Pump Hydraulic Driver Punch Kit

- All Kits Feature:**
- Slug Splitter® Knockout Punches with capacities up thru 10 gauge stainless steel. Refer to individual punch capacity ratings.

- 7506 Kit Features:**
- Fast easy and simple to operate.
 - Compact design makes this a perfect choice for use on construction sites and maintenance jobs.
 - Will also drive 751 Cable Cutter head.
 - Powerful 11-ton hydraulic ram.
 - 3-foot hose.



Cat No.	UPC No.	Description	Wt. (lbs)
744	29619	1/2" through 1-1/4" Conduit Size Slug Splitter® Knockout Punch Kit	5
7307	29528	1/2" through 2" Conduit Size Slug Splitter® Knockout Punch Kit	10.4
7506	30385	1/2" through 2" Conduit Size Slug Splitter® Knockout Punch Kit with Hydraulic Ram & Hand Pump	32

Specifications:

744/29619 - Quick Draw™ and Quick Draw 90™ hydraulic drivers, Battery Powered drivers, 7646 and 7625 ram-type drivers.
7307/29528 - Quick Draw™ and Quick Draw 90™ hydraulic drivers, Battery Powered drivers, 7646 and 7625 ram-type drivers.
7506/30385 - Hydraulic ram and hand pump included.

Metal Stud Punches

- Punch up through 20 gauge (0.9 mm) steel studs in one stroke.
- Aluminum head provides strength with minimum weight, reducing operator fatigue.
- Contoured handle design gives better operator leverage and makes it possible to punch in tight places.
- Self stripping design eliminates punch hang-ups.
- Automatically centers holes on standard studs.
- Conversion kit available to upgrade early models from 24 gauge to 20 gauge maximum capacity.



Specifications:

Capacity: 709 - 1-5/8" & wider studs.
20 gauge steel studs.
710 - 2-1/2" and wider studs.
20 gauge steel studs.

Cat. No.	UPC No.	Description	Wt. (lbs)
709	22280	7/8" Diameter Stud Punch	7
710	21285	1-11/32" Diameter Stud Punch	7.5
30968	30968	Conversion Kit - Upgrades early model 709 or 710 from 24 to 20 gauge maximum capacity	
121 AV	04006	Punch for 709 - Accessory	
22286	22286	Die for 709 - Accessory	
24823	24823	Punch for 710 - Accessory	
21297	21297	Die for 710 - Accessory	

Nail Eater II® Power Bits

- Patented new design for improved cutting and cleaner holes.
- Self-feeding screw point draws bit through wood.
- Unique patented design cutting angle - smoother starts, reduced cutting loads.
- Made of super tough heat treated steel; cuts through nails and provides longer life.
- "Shorty" bits - for working in tight places, yet still can go through three abutting 2 x 4s.
- See "Bit Extensions" if more length is required.

Greenlee®

Nail Eater II® Power Bits (continued)

Specifications:

61 PTS Shorty Nail Eater II® and 61/62 Big Shank Shorty Nail Eater II® Bits:
Overall Length: 7-5/8"
Twist Length: 5"
Electric drill required: 61 PTS - 5/8" thru 61 PTS - 1", minimum 3/8" drill; All Big Shank, 1/2" drill.
66PT Nail Eater II®:
Overall Length: 18"
Twist Length: 15"



61PTS Shorty, 62PTS & 61/62 PTS Big Shank Shorty Nail Eater II® Bits

Cat. No.	UPC No.	Hole (in)	Hex Shank (in)	Wt. (lbs)
61PTS-5/8	30419	5/8	5/16	.3
61PTS-11/16	30421	11/16	5/16	.4
61PTS-3/4	30423	3/4	5/16	.4
61PTS-13/16	30425	13/16	5/16	.5
61PTS-7/8	30427	7/8	5/16	.5
61PTS-1	30429	1	5/16	.8
62PTS-5/8	31788	5/8	7/16	.3
62PTS-11/16	31790	11/16	7/16	.4
62PTS-3/4	31792	3/4	7/16	.5
62PTS-13/16	31794	13/16	7/16	.5
62PTS-7/8	31796	7/8	7/16	.6
62PTS-1	31798	1	7/16	.9
61/62PTS-1-1/8	30431	1-1/8	7/16	.7
61/62PTS-1-1/4	30433	1-1/4	7/16	1.1

66PT Nail Eater II® Bits

Cat. No.	UPC No.	Hole (in)	Hex Shank (in)	Wt. (lbs)
66PT-1/2	30915	1/2	5/16	.7
66PT-5/8	30919	5/8	7/16	.8
66PT-11/16	30921	11/16	7/16	1
66PT-3/4	30923	3/4	7/16	1.2
66PT-13/16	30925	13/16	7/16	1.2
66PT-7/8	30927	7/8	7/16	1.5
66PT-15/16	30929	15/16	7/16	1.6
66PT-1	30931	1	7/16	1.8
66PT-1-1/8	30935	1-1/8	7/16	2.3
66PT-1-1/4	30937	1-1/4	7/16	2.8

Nail Eater II® Impact Bits

- Quickly bore through creosoted and salt treated utility poles.
- Resists wear, eats through nails and staples.
- Self-feeding screw point draws the bit through the wood.
- Choice of 7/16" or 5/8" hex shank to fit impact drivers.
- Available in 18" and 24" overall lengths.

Cat. No.	UPC No.	Hole (in)	Hex Shank (in)	Wt. (lbs)
37868	9/16	18	7/16	0.9
37869	11/16	18	7/16	1.1
37870	13/16	18	7/16	1.4
37871	15/16	18	7/16	1.5
37872	1-1/16	18	7/16	1.7
37873	9/16	24	7/16	1.2
37874	11/16	24	7/16	1.5
37875	13/16	24	7/16	1.8
37876	15/16	24	7/16	2.1
37877	1-1/16	24	7/16	2.2
37878	9/16	18	5/8	1.0
37879	11/16	18	5/8	1.2
37880	13/16	18	5/8	1.5
37881	15/16	18	5/8	1.6
37882	1-1/16	18	5/8	1.8
37883	9/16	24	5/8	1.2
37884	11/16	24	5/8	1.6
37885	13/16	24	5/8	1.9
37886	15/16	24	5/8	2.1
37887	1-1/16	24	5/8	2.2



149G E-Z Bore™ Bits

- Double-end replaceable screw point. Choose the right feed for the material you are drilling. Fine thread for hardwoods, coarse thread for fast effortless drilling even in soft gummy woods.
- Tapered backside for easier removal.
- Open design won't clog with wood chips.
- Three milled flats for use in portable electric or pneumatic drills and stationary boring machines.

Cat No.	UPC No.	Hole Dia. (in)	Overall Length (in)	Pipe & Conduit Size (in)	Wt. (lbs)
149G-1	34985	1	5	1/2	.4
149G-1-1/8	29388	1-1/8	5	1/2 & 3/4	.3
149G-1-1/4	29389	1-1/4	5	3/4	.3
149G-1-3/8	29390	1-3/8	5	-	.4
149G-1-1/2	29391	1-1/2	5	1	.4
149G-1-3/4	29392	1-3/4	5	1-1/4	.5
149G-2	34986	2	5	-	.6
149G-2-1/8	29393	2-1/8	5	1-1/2	.7
149G-2-1/4	29395	2-1/4	5	-	.7
149G-2-9/16	29396	2-9/16	5	2	.8
149G-3	34987	3	5	2-1/2	1.1
149G-3-5/8	29398	3-5/8	6-1/4	3	2.1
149G-4-5/8	29400	4-5/8	6-1/4	4	2.6



Replacement Parts:

Cat. No.	UPC No.	Description
4236AV	05133	Replacement Screw Point for 149G-1, 149G-1-1/8, 149G-1-1/4, 149G-1-3/8, 149G-1-1/2, 149G-1-3/4, 149G-2, 149G-2-1/8, 149G-2-1/4, 149G-2-9/16 and 149G-3
18358	18358	Replacement Screw Point for 149G-3-5/8 & 4-5/8
18405	18405	Replacement Shank for 149G-3-5/8 & 4-5/8

Conduit and Pipe Bit Sets

- Complete assortment of the most commonly used Greenlee bits.
- High impact rugged plastic carrying case.
- Full compliment of accessories conveniently stored.

Cat. No.	UPC No.	Description
1441	34995	Contractor's Bit Kit
149G-1	34985	1" E-Z Bore™ Kit
149G-1-1/8	29388	1-1/8" E-Z Bore™ Bit
149G-1-1/4	29389	1-1/4" E-Z Bore™ Bit
149G-1-1/2	29391	1-1/2" E-Z Bore™ Bit
149G-1-3/4	29392	1-3/4" E-Z Bore™ Bit
149G-2-1/8	29393	2-1/8" E-Z Bore™ Bit
149G-2-9/16	29396	2-9/16" E-Z Bore™ Bit
423AV	05133	Double End Screw Point
51376	51376	1/8" Allen Wrench
52144	52144	5/32" Allen Wrench
904-5-1/2	34996	5-1/2" Bit Extension
34997	34997	Plastic Case



Hand Tools

Greenlee®


D'versBIT® System:

A new twist to an old problem. These flexible steel drill bits are the right tools for installing wire or cable inside existing walls.


It bends to meet your needs! Fishing wire or cable through existing walls used to be frustrating and time-consuming, but the D'versiBIT® has made it as simple as bowing the spring steel shaft in the direction you want to drill and turning on the power. Proven in the field to deliver accurate and professional results in many applications. Bits range from 1/4" to 1" in diameter and in shaft length from 18" to 72".

The D'versiBit® System makes it possible to easily accomplish even complex installations. This patented system attaches a quality drill bit to a long flexible spring steel shaft. When used with the Placement Tool, this flexibility makes it possible to easily manipulate the bit within walls. After drilling, attach a D'versigrIP to the hole in the drill and pull wire or cable back through the wall.


Type A, Auger

- Wood-type auger bit with screw point. 
- Pulls itself through wood, avoids walking or skidding.
- Excellent for drilling in soft woods or through thin sections.

Type B, Combination w/Screw Point:


- A popular bit that can be used in many applications.
- Screw point for easy starting and pulling through wood. 
- With screw point removed, this bit can be ground to function like a standard combination bit.

Type C, Combination:


- For drilling in wood and light sheet metal. 
- Drilling speed relative to pressure applied.
- Chips can be brought easily out of the hole.
- This bit is excellent for tough woods and thick obstacles.

Bit Dia. (in)	Shaft Lgth (in)	Shaft Dia. (in)	Type A Auger		Type B Combo. w/Screw Point		Type C Combo.	
			Cat. No.	UPC No.	Cat. No.	UPC No.	Cat. No.	UPC No.
1/4"	18	5/32	-	-	-	-	04-03-18C	38110
	24	5/32	-	-	-	-	04-03-24C	38111
	36	5/32	-	-	-	-	04-03-36C	38112
	54	5/32	-	-	-	-	04-03-54C	38113
3/8"	18	3/16	06-03-18A	38065	-	-	06-03-18C	38115
	24	3/16	06-03-24A	38066	06-03-24B	38091	06-03-24C	38116
	36	3/16	06-03-36A	38067	06-03-36B	38092	06-03-36C	38117
	54	3/16	06-03-54A	38068	06-03-54B	38093	06-03-54C	38118
1/2"	18	3/16	06-03-18A	38070	-	-	-	-
	24	3/16	06-03-24A	38072	08-03-36B	38097	08-03-36C	38122
	36	3/16	08-03-36A	38073	08-03-54B	38098	08-03-54C	38123
	54	3/16	08-03-54A	38074	08-03-72B	38099	08-03-72C	38124
9/16"	24	3/16	09-03-24A	38076	-	-	-	-
	36	3/16	09-03-36A	38077	09-03-36B	38102	09-03-36C	38127
	54	3/16	09-03-54A	38078	09-03-54B	38103	09-03-54C	38128
	72	3/16	09-03-72A	38079	09-03-72B	38104	09-03-72C	38129
3/4"	18	1/4	12-04-18A	38080	-	-	-	-
	24	1/4	12-04-24A	38081	-	-	-	-
	36	1/4	12-04-36A	38082	-	-	12-04-36C	38132
	54	1/4	12-04-54A	38083	-	-	12-04-54C	38133
1"	18	1/4	12-04-18A	38084	-	-	12-04-72C	38134
	36	1/4	16-04-36A	38087	-	-	-	-
	54	1/4	16-04-54A	38088	-	-	16-04-54C	38138
	72	1/4	16-04-72A	38089	-	-	16-04-72C	38139

Type M, Masonry

- For drilling in masonry walls and through plaster. 
- Recommended for use with Abrasion Shield to reduce friction and abrasion as the shaft turns against masonry.

Type HS, High Speed Steel

- Designed for aggressive cutting in all types of wood. 
- Retrieve wire or cable by removing the drill motor, attaching D'versigrIP and wire to chuck end of shaft and pulling from drill end of shaft.

D'versBIT® System (continued)

Bit Dia. (in)	Shaft Lgth (in)	Shaft Dia. (in)	Type M Masonry		Type HS High Speed Steel	
			Cat. No.	UPC No.	Cat. No.	UPC No.
1/4"	18	3/16	-	-	1418D	38744
	24	3/16	04-03-24M	38661	1424D	38745
	36	3/16	04-03-36M	38662	1436D	38746
	54	3/16	04-03-54M	38663	1458D	38747
3/8"	18	3/16	06-03-18M	38665	3818D	38749
	24	3/16	06-03-24M	38666	3824D	38750
	36	3/16	06-03-36M	38667	3836D	38751
	54	3/16	06-03-54M	38668	3858D	38752
1/2"	18	3/16	-	-	1218D	38754
	24	3/16	-	-	1224D	38755
	36	3/16	-	-	1236D	38756
	54	3/16	-	-	1258D	38757
3/8"	36	1/4	06-04-36M	38672	3836D14	38761
	54	1/4	06-04-54M	38673	3858D14	38762
	72	1/4	06-04-72M	38674	3872D14	38763
	1/2"	36	1/4	08-04-36M	38677	1236D14
54		1/4	08-04-54M	38678	1258D14	38767
72		1/4	08-04-72M	38679	1272D14	38768
3/4"		54	1/4	12-04-54M	38683	-
	72	1/4	12-04-72M	38684	-	-

Placement Tool

- Allows placement of the drill bit at any point within the wall.
- Helpful in judging where the bit will be during drilling to avoid accidentally drilling through the wall.
- Useful for vertical and horizontal placements.

Cat. No	UPC No.	Description
712P	38350	D'versBIT® Placement Tool



Specifications:

Functions: Use to position all bit & shaft sizes.

Recessed Light Hole Saws

- Industry's only interchangeable replacement blades.
- Strong durable back plate.
- Available in two styles - steel tooth and carbide grit.
- Made and designed in U.S.A. by Greenlee.
- Use with a power drill to cut large diameter holes for recessed lighting fixtures.
- Saws use Greenlee arbor 37156, purchased separately.

Specifications

Capacity:
Steel Toothed Blade - up to 7/8" plywood, wood, acoustical tile and ceiling tile.
Carbide Grit Blade - up to 7/8" drywall, plywood, wood, acoustical tile, ceiling tile, plaster and stucco.



Cat/UPC No.	Description	Hole Dia. (in)	Wt. (lbs)	Use For
35712	Steel Toothed	4-3/8	.76	Mini Juno, Capri
35716	Carbide Grit	4-3/8	.74	Marco & Halo
35713	Steel Toothed	6-3/8	1.2	Halo & Capri
35717	Carbide Grit	6-3/8	1.1	Halo & Capri
35714	Steel Toothed	6-5/8	1.3	Juno & Progress
35718	Carbide Grit	6-5/8	1.3	Juno & Progress
35715	Steel Toothed	6-7/8	1.3	Lithonia, Marco, Lightier, Progress, Capri & Precolite
35719	Carbide Grit	6-7/8	1.4	Lithonia, Marco, Lightier, Progress, Capri & Precolite

Greenlee®

Screw Anchor Expanders for Caulking Anchors

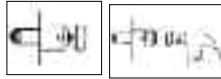
- Quickly & securely set expansive screw anchors in masonry, regardless of thickness
- Hardened alloy steel.
- Patented



Cat. No.	UPC No.	Expansive Belt Size	Use With Anchor No.	Qty. Per Box	Wt. (lb)
866	02667	#10-24	84296	1	.3
868	02669	1/4" - 20	84299	1	.4
870	02671	3/8" - 16	84305	1	.6

Cat. No.	UPC No.	Description
4451AV	05191	Anchor Screw for 866
4457AV	05197	Anchor Screw for 868
4717AV	05300	Anchor Screw for 870

1. Drill hole of required size & put anchored screw on expander. Insert screw anchor into drilled hole.
2. Strike head of expander w/ hammer or mallet until anchor is held securely in wall. Unscrew expander.



FISHING, CABLE PULLING

MagnumPRO™ Steel Fish Tapes

- Oil-tempered spring steel for excellent fishing performance.
- Dirt-free tape finish keeps hands cleaner during use.
 - Advanced comfort handle grip reduces fatigue.
 - Superior rapid tape pay-out and rewind.
 - Smaller Fish Eye with offset bend for improved fishing ability.
 - Improved low profile tip for easy fishing through all sizes of conduit.
 - Viewing Port gives visibility to remaining tape and ability to remove jobsite debris quickly.
 - Rugged case design improves drop impact capability.
 - Flared case with Grip Ridges for no slip handling.
 - Available in 50', 65', 125' and 240' lengths.
 - 1/8", 1/4" and flat steel profiles to accommodate different fishing situations.



Specifications:

Capacity:	1/8" and 1/4" tape width - 400 lbs. max. design strength.		
Weight:	FTS438-65 3.1lbs.	S438W-200 10.9lbs.	FTS438-240 8.5lbs.
	FTS438-125 5.5lbs.	438-5H 2.8lbs.	438-2X 1.3lbs.
	FTS438W-100 7.2lbs.		

Cat. No.	UPC No.	Description
438-5H	07500	Steel Fish Tape - 50' x 1/8"
FTS438-65	12729	Steel Fish Tape - 65' x 1/8"
FTS438-65BP	10028	Steel Fish Tape - 65' x 1/8" 3-PACK
FTS438-125	12709	Steel Fish Tape - 125' x 1/8"
FTS438-125BP	10046	Steel Fish Tape - 125' x 1/8" 3-PACK
FTS438-240	12730	Steel Fish Tape - 240' x 1/8"
FTS438-240BP	10048	Steel Fish Tape - 240' x 1/8" 3-PACK
FTS438W-100	12710	Steel Fish Tape - 100' x 1/4"
S438W-200	12476	Steel Fish Tape - 200' x 1/4"
RS438-65	12469	Replacement Steel Tape - 65' (no case)
RS438-125	12470	Replacement Steel Tape - 125' (no case)
RS438-240	12471	Replacement Steel Tape - 240' (no case)
RS438W-100	12472	Replacement Steel Tape - 100' x 1/4" (no case)
R438B	29367	Swivel Ball Head for use on 1/8" Steel Fish Tapes
R438-BM	05853	Ball Tip Male Half
439-1	30859	12" Flexible Fish Tape Leader
439-2	14392	12" SPEED FLEX Leader (solder joints)
10051	10051	8 1/2" Case/Handle Replacement Kit
10052	10052	12" Case/Handle Replacement Kit

MagnumPRO™ Stainless Steel Fish Tapes

- Corrosion free stainless steel tape for maximum life.
- Fish further and faster with Speed Flex leader.
- Advanced comfort handle grip reduces fatigue.
- Viewing Port gives visibility to remaining tape and ability to remove jobsite debris quickly.
- Rugged case design improves drop impact capability.
- Flared case with Grip Ridges for no slip handling.
- Available in 100' and 200' lengths.
- Replacement Speed Flex leader.



Stainless Steel Fish Tapes (continued)

Capacity:	1/8" tape width - 400 lbs. max. design strength.	
Weight:	FTSS438-100 4.8lbs.	FTSS438-200 7.4lbs.

Cat. No.	UPC No.	Description
FTSS438-100	12711	Stainless Steel Fish Tape - 100' x 1/8"
FTSS438-200	12712	Stainless Steel Fish Tape - 200' x 1/8"
RSS438-100	12480	Replacement Stainless Steel Tape - 100' (NO CASE)
RSS438-200	12481	Replacement Stainless Steel Tape - 200' (NO CASE)
439-2	14392	12" (305 mm) SPEED FLEX Leader (solder joints)
10052	10052	12" Case/Handle Replacement Kit

MagnumPRO™ Fiberglass Fish Tapes

- Nonconductive fiberglass tape with patented low friction coating for faster and easier fishing.
- Perfect for fishing in conduit with wire or cable present.
- Advanced comfort handle grip reduces fatigue.
- Superior rapid tape pay out and rewind.
- Smaller Fish Eye with offset bend for improved fishing ability.
- Improved low profile tip for easy fishing through all sizes of conduit.
- Viewing Port gives visibility to remaining tape and ability to remove jobsite debris quickly.
- Rugged case design improves drop impact capability.
- Flared case with Grip Ridges for no slip handling.
- Available in 50', 100' and 250' lengths.
- Replaceable tips.
- Exclusive, unique, lightweight reel for easy positive feed out and rewind.
- Excellent for installation of telecommunications and data communication-cables in overhead plenums, above suspended ceilings and under floors.
- Fiberglass fish tape is the fastest manual fish tape available. It is intended for fishing only. Rope or line is recommended for pulling.



Specifications:

Capacity:	540 series-.075" dia. - 300lbs max. design strength	542 series-3/16" dia. - 400 lbs max. design strength
Weight:	FTF540-50 2.8lbs.	FTF540-100 3.4lbs.
	542-200 16lbs.	542-250 17lbs.

Cat. No.	UPC No.	Description
FTF540-50	12717	Fiberglass Fish Tape - 50' x 11/64"
FTF540-100	12718	Fiberglass Fish Tape - 100' x 11/64"
542-200	35746	Fiberglass Fish Tape 200' x 3/16" in reel stand
542-250	35747	Fiberglass Fish Tape 250' x 3/16" in reel stand
R540-100	35744	Replacement Fiberglass Tape - 100' x 11/64" (no case)
05157	05157	Replacement Fiberglass Tape - 200' x 3/16" (no case)
05158	05158	Replacement Fiberglass Tape - 250' x 3/16" (no case)
10565	10565	Pulling Eye Repair Kit for 11/64" Diameter Fish Tapes (Includes: pulling eye & adhesive)
35750	35750	Accessory Kit for 3/16" Fish Tapes (Includes flexible pulling leader, flexible pushing leader, pulling eye, splice ferrule and threaded ferrule)
35908	35908	1/8" Repair Kit (Includes threaded end ferrule, splice ferrule and pulling eye)
35909	35909	3/16" Repair Kit (Includes threaded end ferrule, splice ferrule and pulling eye)
35919	35919	1/8" Pulling Eye
35930	35930	3/16" Pulling Eye
10052	10052	12" Case/Handle Replacement Kit

MagnumPRO™ Flexible Steel Fish Tapes

- Multi-strand steel cable for maximum flexibility.
- Available in 50' and 100' lengths.
- Advanced comfort handle grip reduces fatigue.
- Viewing Port gives visibility to remaining tape and ability to remove jobsite debris quickly.
- Rugged case design improves drop impact capability.
- Flared case with Grip Ridges for no slip handling.



Specifications:

Capacity:	3/16" tape width - 500lbs max. design strength	
Weight:	FTFS439-50 5.6lbs.	FTFS439-100 8.9lbs. FS439-100 6.2lbs.

Cat. No.	UPC No.	Description
FTFS439-50	12713	Flexible Steel Fish Tape - 50' x 3/16"
FTFS439-100	12714	Flexible Steel Fish Tape - 50' x 3/16"
FS439-100	12482	Flexible Steel Fish Tape - 50' x 3/16" Double Tip (no case)
10052	10052	12" Case/Handle Replacement Kit

Hand Tools

Greenlee®

MagnumPRO™ Nylon Fish Tapes

- Nonconductive, curl resistant nylon tape for fast, clean fishing.
- Good for fishing in conduit with wire or cable present.
- Rugged case design improves drop impact capability.
- Advanced comfort handle grip reduces fatigue.
- Nylon fish tape is intended for fishing only. Rope or line is recommended for pulling.

Specifications:

Capacity: 3/16" tape width - 250lbs max. design strength
Weight: FTN536-50 2.9lbs. FTN536-100 3.6lbs.

Cat. No.	UPC No.	Description
FTN536-50	12715	Nylon Fish Tape 50' x 3/16"
FTN536-100	12716	Nylon Fish Tape 100' x 3/16"
RN536-50	12483	Replacement Nylon Fish Tape 50' (NO CASE)
RN536-100	12484	Replacement Nylon Fish Tape 100' (NO CASE)
01664	01664	Replacement Tip for 436 Nylon Fish Tape (Requires Greenlee K05 or K09 series crimping or #6 hex crimp to install.)
10052	10052	12" Case/Handle Replacement Kit



Li'l Fisher™ 390 Power Fishing System

Cat. No.	UPC No.	Description
390	38594	Li'l Fisher™ Vacuum/Blower Power Fishing System - Includes only unit and hose
392	39051	Power Fishing System Accessory Kit

Capacity: 1/2" - 2" conduit with optional Accessory Kit (2-1/2" - 4" with optional foam pistons)
Liquid Capacity - 1.75 gal. (6.5 L) Use 690 Power Fishing System for greater liquid capacity requirements.
Power Source: 120 VAC
Weight: 390 - 19 lbs.

Blow a piston through conduit using 390 Li'l Fisher™ Power Fishing System. Can be used with fish line, poly line or measuring tape.

Vacuum a piston through conduit using 390 Fisher™ Power Fishing System. Can be used with fish line, poly line or measuring tape.

Note: Individual & Replacement parts are available, please call for information.



Mighty Mouser® Blow Gun Kit

- This compact, self-contained Lexan® thermoplastic blow gun holds a 2,150' package of 85 lb. breaking strength fish line.
- Compact self-contained unit leaves one hand free for more efficient operation.
- Mighty Mouser® Blow Gun and Accessories all fit into compact sturdy metal case.

Specifications:

Capacity: 1/2" - 4" conduit through 6" with additional optional accessories
Power Source: Use with blower power fishing systems
Weight: 592 - 20 lbs. 691 - 1.7 lbs.

Cat. No.	UPC No.	Description
592	32565	Mighty Mouser® Blow Gun Kit for 1/2" - 4" Conduit in metal box
691	32095	Mighty Mouser® Blow Gun only
595	32433	Fish Line - 85 lbs. pulling strength; 2,150' long.
618	16517	Piston for 5" Conduit - IMC, Rigid
619	16951	Piston for 6" Conduit - EMT



Portable Blower Power Fishing System

- Powerful, will blow line or measuring tape in up to 4" conduit.
- Portable, lightweight blower has shoulder strap to make it easy to carry and allow the operator to have both hands free.
- Efficient, includes the Mighty Mouser® blow gun for fast, easy line blowing.



Cat. No.	UPC No.	Description
591	32432	Portable Blower Power Fishing System
618	16517	Accessory - Piston for 5" Conduit - IMC, Rigid
619	16951	Accessory - Piston for 6" Conduit - EMT

Capacity: 1/2"-4" conduit
Power Source: 120 VAC
Weight: 34 lbs.

Note: Replacement parts are available, please call for information.

Vacuum/Blower Power Fishing System

- Rugged, self-contained unit includes everything you need to blow or vacuum fish line, poly line or measuring tape.
- Durable tank and accessory storage box are corrosive, chemical and impact resistant polyethylene.
- Designed for the job site, 10' long hose, large heavy-duty wheels and removable accessory box.
- Large 11 gallon tank makes the 690 excellent for cleaning water and debris.



Cat. No.	UPC No.	Description
690	31339	Vacuum / Blower Power Fishing System - 120 VAC
690-22	31340	Vacuum / Blower Power Fishing System - 220 VAC
16646	16646	Accessory - Adapter for 1-1/2" - 6" conduit
18877	18877	Accessory - Vacuum Grevice Tool
18879	18879	Accessory - Vacuum Dust Brush
618	16517	Accessory - Piston for 5" Conduit - IMC, Rigid
619	16951	Accessory - Piston for 6" Conduit - EMT

Note: Individual & Replacement parts are available, please call for information.

Conduit Pistons

- Use with blower or vacuum power fishing system to pioneer the line through the conduit run.
- Flexible foam body for an air tight seal.
- Color coded end disk with embossed size markings for fast, easy selection.
- Strong steel center rod with loops on both ends.
- Pistons available for all types and sizes of conduit 1/2" through 6".
- Patented.

Individual Pistons:

Cat. No.	UPC No.	Conduit Size (in)	Conduit Type	Color
608	16640	1/2	All	Green
609	16507	3/4	All	Green
610	16508	1	All	Green
611	16509	1-1/4	All	Green
612	16510	1-1/2	All	Green
613	16511	2	All	Green
614	16512	2-1/2"	IMC, Rigid	Green
621	19107	2-1/2"	EMT	Yellow
615	16513	3	IMC, Rigid	Green
622	19109	3	EMT	Yellow
616	16514	3-1/2	IMC, Rigid	Green
646	24326	3-1/2	EMT	Yellow
617	16515	4	IMC, Rigid	Green
623	19110	4	EMT	Yellow
618	16517	5	All	Green
619	16951	6	All	Green



Note: Piston Sets are also available, please call for more information.

Greenlee®

Fish Line

- Strong, lightweight nylon.
- 595 - Center feed for fast payout without tangling. Use with Mighty Mouser® blow gun.
- 604, 605, 606 and 607 – Specially wound to payout fast from outside without tangles.
- Mildew resistant can be pulled into the run with the wire to provide a means to add wires later.

Cat. No.	UPC No.	Strength (lbs)	Length (ft)
595	32433	85	2150
604	23368	85	2200
605	16504	45	2750
606	16505	72	1700
607	16506	90	1350



Poly Line

- Use with power fishing Systems directly from the container.
- Resists tangling when dispensing.
- Rot and mildew resistant.
- Handy reusable plastic dispenser pail with handle keeps the line dry.
- Not for pulling wire or cable. Use to pull rope through conduit.



Specifications:

Cat. No.	UPC No.	Description
430	21481	Poly Line 6500'
431	21482	Poly Line 5200'
	37959	Poly Line 2200'
R430	37835	Poly Line Refill 6500'

Size: 430 - 6500', 431 - 5200', 37959 - 2200'
Capacity:
430 - 210 lbs. average breaking strength
431 - 240 lbs. average breaking strength
37959 - 500 lbs. average breaking strength
Weight: 430 - 11 lbs., 431 - 12 lbs.

Rope and Pay Out Reel

- Use to hand pull wire or cable.
- Light enough to be vacuumed or blown into the conduit run with a power fishing system.
- Rot and mildew resistant.
- Can be pulled into the run along with cable or wire and left for future additions to the run.

Cat. No.	UPC No.	Description
620	16956	Pay Out Reel w/Rope (consists o 405 & 409)
405	21546	Reel Stand
409	21468	Polypro Rope 3/16" x 600'



Specifications:

Size: 3/16" x 600'
Capacity: 720 lbs. average breaking strength
Weight: 620: 10 lbs., 405: 5.2 lbs., 409: 5 lbs.

Conduit Measuring Tape and Dispenser

- Fish and measure conduit runs in one operation.
- Permanently printed measurements every foot from zero to 3000'.
- Made of strong, waterproof polyester.
- Pay out dispenser has anti-skid pads, handle and built-in cutter.

Cat. No.	UPC No.	Description
435	21562	Conduit Measuring Tape 3/16" x 3000'
434	21875	Pay-Out Dispenser for 435 Conduit Measuring Tape



Specifications:

Size: 3000'
Capacity: 130 lbs. average breaking strength
Weight: 435: 18.4 lbs., 434: 3.5 lbs.

435 Measuring Tape shown on 434 Dispenser - sold separately.

Kevlar® High Strength Conduit Measuring Tape

- Pull small cables or install pull rope for large cable pulling jobs.
- Made of Kevlar®, will not rot or deteriorate. Can be left in ducts indefinitely for future use.
- Low stretch properties make measurements accurate.
- Permanently printed measurements every foot from zero to 3000'.
- Use 406 Dispenser.

Cat. No.	UPC No.	Description
39243	39243	Conduit Measuring Tape 1/4" x 3000'
39244	39244	Conduit Measuring Tape 3/8" x 3000'
39245	39245	Conduit Measuring Tape 1/2" x 3000'

Specifications:

Size: 3000'
Capacity:
39243 - 1250 lbs. average breaking strength
39244 - 1800 lbs. average breaking strength
39245 - 2500 lbs. average breaking strength
Weight: 39243: 10.5 lbs., 39244: 14.5 lbs., 39245: 18 lbs.



Kevlar is a registered trademark of E.I. DuPont, Inc.

Cable Pulling Rope Safety Tips

WARNING: Rope is a very critical link in the cable pulling system. The following steps should be observed in the selection and use of cable pulling rope.

1. Select a rope with an average breaking strength at least four times the rated capacity of your puller (rope safety factor). A safety factor of 4:1 minimum or greater than 4:1 is REQUIRED for pulling inside of raceways with a minimum of rope length exposed. Higher safety factors are recommended if the pulling rope is exposed.

Required safety factors are for new rope in good condition without kinks or splices. When pulling, avoid sharp corners, edges, wedging or dragging over rough ground. Dirt and grit picked up by the rope can work into the strands reducing its pulling capacity. If there is any question, discard the used rope.

2. Use only low stretch Double Braided Polyester for high force cable pulling. High stretch ropes store energy much like a stretched rubber band. If, for any reason, there is a failure of the rope, pulling grip conductors, or any other component in the pulling system, this "stored-up" energy will suddenly be unleashed. The whipping action of a rope can cause considerable damage, serious injury or death.

3. Inspect rope thoroughly before using. Make sure there are no cuts or frays in the rope. Remember the rope is only as strong as its weakest point. **INSPECT THOROUGHLY BEFORE USING!**

4. When designing the pull, keep rope confined in conduit wherever possible. Should the rope break or any other part of the pulling system fail releasing the stored energy in the rope, the confinement in the conduit will work against the whipping action of the rope by playing out much of this energy within the conduit.

5. Do not stand in direct line with the pulling rope.



CUT ROPE

WORN, FRAYED ROPE

$$\text{ROPE SAFETY FACTOR} = \frac{\text{Rope Average Breaking Strength}}{\text{Maximum Pull Force Developed By Your Cable Puller}}$$

Double Braided Composite Rope for High Force Cable Pullers

- Custom made to Greenlee specifications to provide 4:1 Safety Factor required for cable pulling.
- Double braided inner core with an extra double braided outer jacket for added strength and less stretch; white with green tracer.
- Rot and mildew resistant
- Factory spliced eyes at both ends.
- Lowest stretch.
- Select a rope with a maximum rated capacity that meets or exceeds the cable puller's maximum pulling force.



- continues -

Hand Tools

Greenlee®

Double Braided Composite Rope (continued)

Rope Dia. (in)	Rope Lgth (ft)	Cat./UPC No.	Max. Rated Cap. (lbs)	Average Breaking Strength (lbs)	Wt. (lbs)	Rope Stand
For the 640 Puller						
9/16	300	35283	4,000	16,000	28644	
9/16	600	35284	4,000	16,000	63644	
9/16	1,200	35285	4,000	16,000	130	†
For the 6001 Puller						
3/4	300	35098	6,500	26,000	58	644
3/4	600	35100	6,500	26,000	113	654
3/4	1,200	35101	6,500	26,000	230	†
For the 6800 Puller						
7/8	300	34136	8,000	32,000	90	654
7/8	600	34137	8,000	32,000	178	654
7/8	1,200	34138	8,000	32,000	359	†

Multiplex Cable Pulling Rope for Low Force Cable Pullers

- Strong white polyester braided rope with green tracer.
- Rot and mildew resistant.
- Packed on sturdy reel.
- Factory spliced eyes at both ends.
- Low stretch.
- Select a rope with a maximum rated capacity that meets or exceeds the cable puller's maximum pulling force.

Rope Dia. (in)	Rope Lgth. (ft)	Cat./UPC No.	Max. Rated Cap. (lbs)	Ave. Breaking Strength (lbs)	Wt. (lbs)	Rope Stand
For the 805 Puller						
3/8	100	34121	800	3700	5.6	405
3/8	300	34122	800	3700	14.3	406
3/8	600	34123	800	3700	31.0	644
3/8	1,200	34124	800	3700	60.0	644
For the 446 Puller						
1/2	300	480 / 31529	1,200	6400	21	406
1/2	600	481 / 31530	1,200	6400	50	644
1/2	1,200	482 / 31531	1,200	6400	104	†
For the 2001 Puller						
5/8	300	483 / 31532	2,000	10,000	34	644
5/8	600	484 / 31533	2,000	10,000	75	644
5/8	1,200	485 / 31534	2,000	10,000	142	†
3/4	300	6005 / 29910	2,000	12,500	58	644
3/4	600	6015 / 30031	2,000	12,500	113	654
3/4	1,200	6025 / 30039	2,000	12,500	230	†



† This rope does not fit on a rope stand. Use reel jacks and a spindle to dispense.

Rope Stands

- Use to organize and rewind rope.
- Welded steel with washer and spring clip to hold rope reel on stand.

Rope Stand	Rope Diameter					
	3/16"	1/4"	3/8"	1/2"	5/8"	3/4" 7/8"
405 / 21546 Rope Stand						
250' Rope	x	x				
600'	x					
406 / 21550 Rope Stand						
300' Rope			x	x		
600' Rope		x				
1,000' Rope	x	x				
3,000'						
Conduit Tape		x	x	x		
Measuring Tape	Cat./UPC No.	39243	39244	39245		
644 / 15316 Rope Stand						
300'					x	x
600'			x	x	x	
1,200'			x			
5,000'	x					
654 / 34362 Rope Stand						
300'						x
600'					x	x



Ultra Tugger™ Cable Puller Cable Puller: 8000 lb. rated

Nothing Pulls Like The ULTRA Tugger™

- Pulls up to 8,000 lbs.
- Versi-Boom™ System allows you to make versatile and fast set-ups and pull 10' or 20' of extra cable easily.
- Uses standard 3" rigid steel conduit for boom.
- Direct gear drive.
- Lightweight.
- Portable.-
- Optional deluxe force gauge.



Cat. No.	UPC No.	Description
6800	00985	Ultra Tugger™ Cable Puller with Std. Force Gauge, and Floor Mount.
6800-22	03196	Same as 6800 except 220 VAC 50 Hz.
6801	00986	Ultra Tugger™ Cable Puller w/ Std. Force Gauge, & Conduit Chain Mount.
6802	00987	Ultra Tugger™ Cable Puller Std. Force Gauge, Pipe Adapter Sheave, Floor Mount, Versi-Boom™ System and "T" Stand w/o the Versi-Boom™ excludes Extensions and Elbow, Wheeled Carriage, Screw-on Couplers, or Rope.

Specifications:

Weight: 86 lbs. Dimensions:
Dimensions:
Length: 11.5 in., Width: 26 in., Height: 8.5 in.
Drive Motor 1-1/2 Horsepower
Power Source 6800, 01, 02, 03, 04 and 05: 120 V 2 0A
Power Source 6800-22, 02-22 and 05-22: 220 VAC 50 HZ
Pulling Force: Maximum - 8,000 lbs., Continuous - 6,500 lbs.
Pulling Speed - Feet Per Minute: No Load: 9 fpm, At 2000 lbs.: 8 fpm, At 4000 lbs.: 7.5 fpm, At 6000 lbs.: 7 fpm, At 8000 lbs.: 6 fpm
Power Source: 120 V 20 A
Required Rope: 7/8 diameter; Double Braided Polyester Composite 8,000 lb. Maximum Rated Capacity

Hook-Type Sheaves for Easy Tugger™ and Tugger®

- Strong, welded steel frames.
- Forged steel closure type hooks with 1" opening.
- 5" wide aluminum alloy sheaves with self lubricating bearings
- Select a sheave with a maximum rated capacity that meets or exceeds the cable puller's maximum pulling force.

Cat. No.	UPC No.	Description
650	15324	6" dia. Hook Sheave with 1-1/2" minimum radius.
651	15325	12" dia. Hook Sheave with 3-5/16" minimum radius.
652	15326	18" dia. Hook Sheave with 7" minimum radius.
653	15327	24" dia. Hook Sheave with 9-13/16" minimum radius.

Sheave Dia.	6"	12"	18"	24"
Desc.	Cat/UPC No.	Cat/UPC No.	Cat/UPC No.	Cat/UPC No.
Sheave Pin	16797	16797	16797	16797
Sheave Pin Clip (2)	50302	50302	50302	50302
Sheave	15362	15358	15363	15364
Sheave Bushing (2)	16798	16798	16798	16798
Yoke Frame	16799	16801	16801	16802

Max. Rated Cap.: 4,000 lbs.
Weight: 650 - 8.8 lbs. 652 - 25 lbs. 651 - 15 lbs. 653 - 35 lbs.



Hook Sheaves for any Greenlee Cable Puller

- For use with any Greenlee cable puller.
- Strong, welded steel frames.
- Forged steel closure type hooks with 1" opening.
- All three sheaves are aluminum alloy with self lubricating bearings.

Cat/UPC No.	Outside Dia. (in)	Inside Radius (in)	Width (in)	Weight (lbs)	Max. Rated Cap. (lbs)
8012/00872	12	3-7/8	5	28	8,000
8018/00873	18	7	6	44	8,000
8024/00874	24	9-7/8	6-1/2	67	8,000



Greenlee®

Right Angle Twin Yoke Sheave for Easy Tugger™ and Tugger®

- 9-13/16" minimum radius.
- Strong welded steel yokes.
- Forged steel closure type hook with 1" opening.
- 5" wide aluminum alloy sheave with self lubricating bearings.
- Yokes rotate independently to fit various setups.
- Use with any cable puller whose maximum pulling force is 4,000 lbs. or less.



Cat. No.	UPC No.	Desc.
639	17265	Right Angle Twin Yoke Sheave with 9-13/16" min. radius.

Specifications:

Max. Rated Cap:	4,000 lbs.
Weight:	45 lbs.

Triple Sheave Cable Guide for Easy Tugger™, Tugger® and Super Tugger®

- Adjustable center sheave for 19-1/2" or 36" radius.
- Forged steel closure type hook with 1-1/2" opening.
- Aluminum frames for light weight.
- Steel yoke is pinned for easy renewal.
- 21-7/8" high, 24" long, 7-3/8" wide with 5" wide sheaves.
- Use with any cable puller whose maximum pulling force is 6,500 lbs. or less.



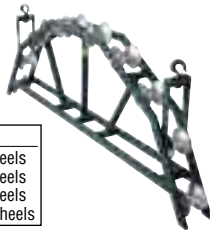
Cat. No.	UPC No.	Description
6036	31569	Triple Sheave Cable Guide

Specifications:

Max. Rated Cap:	6,500 lbs.
Weight:	28 lbs.

Radius Cable Sheaves for Easy Tugger™, Tugger® and Super Tugger®

- Welded steel frame with a series of sheaves to form a large radius.
- Yokes with cast steel closure type hooks with a 1" opening.
- 5" wide aluminum alloy sheaves.
- Use with any cable puller whose maximum pulling force is 4,000 lbs. or less.



Specifications:

Max. Rated Cap:	4,000 lbs.
Weight:	631 - 115 lbs. 637 - 63 lbs. 636 - 49 lbs. 638 - 85 lbs.

Cat. No.	UPC No.	Description
636	17255	16" Radius Cable Sheave w/4 sheave wheels
637	17260	24" Radius Cable Sheave w/6 sheave wheels
638	17263	36" Radius Cable Sheave w/8 sheave wheels
631	21572	48" Radius Cable Sheave w/10 sheave wheels

Tray Type Sheaves

- Steel frame easily attaches to cable tray up to 2" thick.
- Helps roll and guide tray pulls.
- Make tray pulls easier.
- 5" wide aluminum alloy sheaves with self lubricating bearings.

Cat. No.	UPC No.	Description
658	15332	Tray-Type Sheave
659	19094	Tray-Type Sheave

Specifications:

Size:	658 - 12" long. 659 - 22" long
Weight:	658 - 11 lbs. 659 - 17 lbs.



Cable Cream™ Cable Pulling Lubricant

- Advanced formula, light yellow cream makes pulling faster and easier.
- Compatible with all cable insulation types.
- Dries slowly to a thin, non-conductive non-hardening residue.
- Adheres well to the cable without messy dripping. Reduces waste.
- Cleans up easily. Non-staining.
- Won't break down or separate after exposure to freezing cold or blistering heat.
- Environmentally safe/non-hazardous.

Cat. No.	UPC No.	Description
CRM-Q	35207	Cable-Cream™ One Quart Squeeze Bottle
CRM-1	35208	Cable-Cream™ One Gallon
CRM-5	35209	Cable-Cream™ 5 Gallons
CRM-55	35210	Cable-Cream™ 55 Gallons



Specifications:

Weight:	CRM-Q - 2.3 lbs. Viscosity: 30,000 - 45,000 CPS
	CRM-5 - 42 lbs PH Range: 7.0 - 8.0
	CRM-1 - 9.5 lbs.
	CRM-55 - 459 lbs.

Cable Gel™ Cable Pulling Lubricant

- Polymer based lubricant offers lower friction and easier pulling
- Compatible with all cable insulation types.
- Cleans up quickly. Non-staining.
- Higher lubricity than competitive products.
- Will not breakdown or separate after exposure to heat or cold.
- Will not cement itself into the pipe.
- Can be applied by hand or pump.
- Environmentally safe/non-hazardous.
- Dries slowly.

Cat. No.	UPC No.	Description
GEL-Q	35211	Cable-Gel™ One Quart Squeeze Bottle
GEL-1	35212	Cable-Gel™ One Gallon
GEL-5	35213	Cable-Gel™ 5 Gallons
GEL-55	35214	Cable-Gel™ 55 Gallons



Specifications:

Weight:	GEL-Q - 2.3 lbs. Viscosity: 8,000 - 12,000 CPS
	GEL-5 - 45 lbs PH Range: 7.0 - 8.0
	GEL-1 - 8.5 lbs.
	GEL-55 - 498 lbs.

Lube Spreader Swab

- Spreads a coat of wire lubricant in duct before installation of cable.
- Cleans mud, dirt and light debris from duct before pulling.
- Tapered shape permits bi-directional use.
- Will not damage inner walls of duct.

Cat./UPC No.	Duct Size (in)	Max. Disk Size (in)	Max. Rated Cap. (lbs)	Wt. (lbs)
16854	2	1.75	4800	.5
16856	2.5	2.25	4800	.6
16857	3	2.75	4800	1.5
16858	3.5	3.25	4800	2.0
16859	4	3.75	4800	2.5
17370	5	4.75	4800	3.5
17571	6	5.75	4800	4.0



Wire Duct Brush

- Flat steel bristles for maximum cleaning of sand, grit and light obstructions from duct.
- Pulling eye on one end and smaller twisted eye on the other end for tailing line allows bi-directional use.
- Can be pulled to loosen dried material before using mandrels or spreader swabs.

Cat./UPC No.	Duct Size (in)	Max. Dia. (in)	Max. Rated Cap. (lbs)	Wt. (lbs)
39274	2	1.87	200	.83
39276	2.5	2.38	200	.83
39278	3	2.87	200	.83
39280	3.5	3.38	200	.90
39282	4	3.87	200	.95
39284	5	4.87	200	1.15
39286	6	5.87	200	1.28



Hand Tools

Greenlee®

Flexible Mandrel

- Useful for cleaning out mud, dirt and light obstacles from ducts before installation of cable.
- Can be used around tight bends due to convex contacts between disks.
- Tapered profile allows pulling in either direction. Pulling eyes on both ends.
- Polyurethane disks do not damage inner walls of duct.

Cat./ UPC No.	Duct Size (in)	Max. Disk Size (in)	Max. Rated Cap. (lbs)	Wt. (lbs)
39265	2	1.88	2330	1
39263	2.5	2.19	2330	1
39261	3	2.81	2330	1.5
39259	3.5	3.25	4800	3.5
39257	4	3.75	4800	4.5
39255	5	4.69	4800	6
39288	6	5.81	4800	8.5



Rope to Swivel Connectors

- Rope to swivel connectors connect the cable pulling rope, up to 1" in diameter, to the pulling swivel.
- Makes connecting the pulling rope and the pulling swivel easier.
- Connectors feature a removable sheave for rope eye.
- Select the connector with a maximum rated capacity that meets or exceeds the cable puller's maximum pulling force.

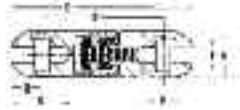


Cat./ UPC No.	Max. Rated Cap. in Conduit or Overhead (lbs)	Max. Rated Cap. (lbs)	Dia. (in)	Length (in)	"E" (in)	"F" Dia. (in)	Use on Swivel
39905	5,000	3,000	2	4-11/16	7/16	13/32	39107
39904	7,000	4,200	2	4-11/16	1/2	1/2	39108
39903	10,000	6,000	2	4-11/16	9/16	5/8	39109
39902	10,000	6,000	2	4-11/16	11/16	11/16	39110



Swivels

- Helps eliminate winding and tangling of rope and cable during pull.
- Connects grip and pulling rope.
- All stainless steel body construction.
- Efficient thrust and roller bearing construction allows smooth rotation, even under full load.
- Clevis pins are "shoulder bolt" style, so load on both sides of clevis is taken on the shoulder, not on the thread.
- Select the swivel with a maximum rated capacity that meets or exceeds the cable pulleys maximum pulling force.

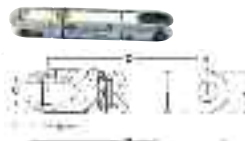


Cat. UPC No.	Max. Rated Cap. (lbs)	A (in)	B (in)	C (in)	D (in)	E (in)	F (in)	G (in)	Wt. (lbs)	Replace. Pin Kit UPC No.
39106	2,500	7/8	2-5/8	3-1/2	7/16	3/8	5/16	31/32	.4	39112
39107	5,000	1-1/4	3-1/16	4-1/8	17/32	1/2	13/32	1-9/32	1.0	39113
39108	7,000	1-3/8	3-9/32	4-17/32	5/8	9/16	1/2	1-3/8	1.0	39114
39109	10,000	1-5/8	3-15/16	5-7/16	3/4	5/8	5/8	1-23/32	2.0	39115
39110	15,000	2	4-11/16	6-9/16	15/16	3/4	11/16	2	4.0	39116
39111	25,000	2-1/2	5-11/16	8-7/16	1-3/16	1	7/8	2-25/32	7.0	39117

Breakaway Swivels

- Acts as a mechanical fuse, breaking away at a preset load to prevent damage to expensive cable.
- Breakaway pins can be replaced to change breakaway values.

Cat./ UPC No.	Breaking Point (lbs)	Color Code	Use with
39294	200	White	
39295	400	Yellow	39290
39296	600	Orange	5/8" Swivel
39297	675	Black	
39302	200	White	
39303	400	Yellow	39298
39304	600	Orange	7/8" Swivel
39306	800	Grey	
39308	1000	Red	



Rope Clevis

- For use with flexible forged eye grips.
- Removable bolt and rope sheave.
- Removable grip eye bolt.
- Select the clevis with a maximum rated clevis that meets or exceeds the cable puller's maximum pulling force.
- Removable sheave for rope eye.

Cat. No.	UPC No.	Desc.	Max. Rated cap. (lbs)	Wt. (lbs)
578	31910	Rope Clevis	6,500 lbs.	578 - 0.9
579	31905	Rope Clevis	10,000 lbs.	579 - 1.3
678	19524	Rope Clevis	6,500 lbs.	678 - 1.3



Wire Caddies

- 905, 906 Features**
 - All welded steel frame.
 - 6 wire spool axles with spring clip locks.
 - Pre-drilled caster mounting holes.
- 906 Features**
 - Collapsible wire guide.
 - Swivel caster set with 2 locking casters for easy use.



Cat. No.	UPC No.	Desc.
905	33024	Wire Caddy
906	33026	Wire Caddy w/Casters & Wire Guide
33405	33405	Caster Set (2 Swivel, 2 Swivel Kit)

Specifications:

Size: 16" long, 26" wide & 17-1/2" high
Capacity: Six 500' spools up to 8" in dia. of #6 thru #10 AWG 600 volt wire.
Weight: 905 - 8 lbs. 906 - 10 lbs.

Hand Truck Caddy

- Holds up to 12 spools of #12 AWG wire or 8 spools of #10 AWG wire.
- 10" diameter pneumatic tire for jobsite portability.
- Pinless design eliminates loose parts.
- 4 solid steel 1/2" spindles included.
- Lay cart flat when dispensing wire. Upright for use as hand caddy.

Cat. No.	UPC No.	Desc.
9505	01205	Hand Truck Caddy

Specifications:

Size: 46-5/8" long, 28-1/4" wide
Capacity: Max. Total Spool Weight: 200 lbs. 4000' #10 ga. wire
 Max. Spool Dia.: 7.5"
 Dolly Lift (max.): 250 lbs.
Weight: 32 lbs.



Wire Cart

- Large capacity, excellent for storing, transporting or feeding wire.
- Save space, use and store vertically or horizontally.
- 5 strong reel axles with spring clip retainers plus 2 positions for axle storage allows you to configure for large reels with no loose parts.
- Strong, yet lightweight, tubular steel welded construction with rugged 8" wheels.
- Built-in wire guide for horizontal dispensing.
- Will pass through a 28" opening.

Cat. No.	UPC No.	Desc.
911	31518	Wire Cart
31523	31523	Reel Shaft (5)
50303	50303	Hitch Clip (10)

Size: 54-1/2" long, 27" wide, 26-1/2" high when horizontal
Capacity: Six 2,500' spools up to 16" in diameter. Six 500' spools up to 8" in dia.
Weight: 62 lbs.



Greenlee®

Deluxe A-Frame Mobile Caddy

- Holds up to 24 spools of #12 AWG wire or 16 spools of #10 AWG wire.
- Folds for easy storage.
- Optional Basket caddy available to dispense metal clad cable.
- 10" diameter pneumatic tires for jobsite portability.
- Pinless design eliminates loose parts.
- 8 solid steel 1/2" spindles included.

Cat. No.	UPC No.	Description
9510	01214	Delux A-Frame Mobile Caddy

Specifications:

Size:	47-7/8" high, 28-1/4" wide.
Capacity:	Max. Tool Spool Weight: 400 lbs. Max. Spool Dia: 7.5"
Weight:	47 lbs.



Wire Dispenser

- All welded steel construction.
- Base has 2 fixed and 2 swivel locking heavy duty casters.
- The spool rack consists of 10 spindles and an adjustable guide loop and can be turned 360° independent of the base.
- Spindles are angled to contain reels and act as a brake while paying out wire.
- Fits through a 36" opening.

Specifications:

Size:	36-1/4" long, 31-1/2" wide, 59" high
Capacity:	Ten 2,500' spools up to 18" in diameter.
Weight:	213 lbs.

Cat. No.	UPC No.	Description
910	21982	Wire Dispenser



Screw Type Reel Stands

- Wide welded steel base for added stability.
- Roller bearings fit in the spindle groove to keep the spindle in place and turning freely.
- Two stands and a spindle are required for a complete set-up.

Cat. No.	UPC No.	Description
683	15372	Reel Stand 22" - 54"
687	17076	Reel Stand 13" - 28"
684	15375	Spindle for 683 Reel Stand
647	15321	Spindle for 687 Reel Stand
25591	25591	Stop Pin (683-2; 687-1)
38619	38619	Jackscrow Replacement Unit for 683 or 687.

Specifications:

Size:	683 - 24" 23" base; 54" max. height 687 - 14-1/2" x 20" base; 28" max. height
Capacity:	683 - 2,500 lbs. each, 46" - 96" reel diameter 687 - 2,500 lbs. each, 28" - 56" reel diameter
Weight:	683 - 49 lbs. 687 - 25 lbs.



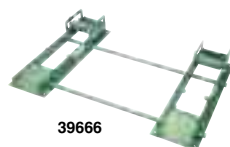
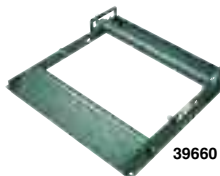
Reel Rollers

- Heavy duty welded steel construction.
- Built-in loading ramps.
- Adjustable to various reel widths and diameters.
- Roller locks for unloading.
- Side ball rollers for centering.
- Fast, convenient ground level set-up for paying out large cable reels.

Cat. / UPC No.	Description
39660	Reel Roller, single platform roller, 32" L x 34" W
39666	Reel Roller, kit of two rollers & two Spreaders, 32" L x 11" W per frame

Specifications:

Size:	39660 - 32" L x 34" W 39666 - 32" L x 11" W
Capacity:	39660 - 2,500 lbs. 30" wide. 39666 - 2,000 lbs. 42" wide.



CUTTERS, STRIPPERS, CRIMPERS, CONNECTORS & HAND TOOLS

Cable Cutter

- Economical, lightweight; fits easily into tool boxes.
- Heat treated, precision ground, shear action blades.
- Steel handles with rubber grips for leverage.
- Made in USA

Cat. No.	UPC No.	Description
718	30208	Cable Cutter

Specifications:

Capacity	Copper	Aluminum
Maximum	350 MCM	350 MCM
Frequent Use	4/0	350 MCM

Length: 18"
Weight: 2.78 lbs



Heavy-Duty Cable Cutter

- Replaceable, shear type blades of forged, heat treated steel - precision ground.
- Designed for long, dependable service.
- Fiberglass handles with large rubber grips.
- Made in U.S.A.

Length: 21"
Weight: 3.01 lbs.

Length: 31-1/2"
Weight: 6.16 lbs.



Cat. No.	UPC No.	Desc.
704	24564	Heavy-duty Cable Cutter
24565	24565	Cutter Unit (Includes 2 Blades)
24567	24567	Handle Unit (Includes 1 each: Handle, Sleeve, Grip)

Specifications:

Capacity	Copper	Aluminum
Maximum	350 MCM	500 MCM
Frequent Use	250 MCM	350 MCM

Cat. No.	UPC No.	Desc.
706	22291	Heavy-Duty Cable Cutter
22292	22292	Cutter Unit (Includes 2 Blades)
22296	22296	Handle Unit (Includes 1 each: Handle, Sleeve, Grip)

Specifications:

Capacity	Copper	Aluminum
Maximum	750 MCM	1000 MCM
Frequent Use	500 MCM	750 MCM

Compact Ratchet Cable Cutters

Both models feature:

- Simple, one-hand operation.
- Two-speed ratchet mechanism adjusts for light/heavy cutting.
- Well suited for tight work spaces.
- Specially designed blade improves cutting capacity.

Cat. No.	UPC No.	Desc.	Wt. (lbs)
45206	45206	Compact Ratchet Cable Cutter	1.5
45207	45207	Compact Ratchet Cable Cutter	2.4

Specifications:

Capacity	Copper	Aluminum
45206		
Maximum	600 MCM	600 MCM
Frequent Use	500 MCM	500 MCM
Length:	10". Jaw Opening: 1-7/16"	
45207		
Maximum	750 MCM	1000 MCM
Frequent Use	600 MCM	750 MCM
Length:	11". Jaw Opening: 2"	



Hand Tools

Greenlee®

Compact Ratchet Cable Cutters

Both models feature:

- Compact, patented ratchet design.
- Versatile - for most field cutting applications.
- Convenient one-hand operation for tight work spaces.
- Quick release - interrupts cut without full cycle.

Cat. No.	UPC No.	Desc.	Wt. (lbs)
752	35465	Compact Ratchet Cable Cutter	1.1
753	34954	Compact Ratchet Cable Cutter	2.5

Specifications:

Capacity	Copper	Aluminum
752 / 35465		
Maximum	600 MCM	600 MCM
Frequent Use	350 MCM	500 MCM
Length: 9"	Jaw Opening: 1-3/16"	
753 / 34954		
Maximum	750 MCM	750 MCM
Frequent Use	500 MCM	750 MCM
Length: 10-1/2"	Jaw Opening: 1-1/2"	



Ratchet Cable Cutter

- High leverage for easier cutting.
- Anti-slip mechanism ensures positive ratcheting.
- One handle stationary while the other ratchets for use in deep boxes or against walls.
- Durable, lightweight fiberglass handles.

Cat. No.	UPC No.	Desc.
764	35516	Ratchet cable Cutter
	36037	Cutter Head Unit (2 Blades)



Specifications:

Capacity	Copper	Aluminum
Maximum	750 MCM	795 MCM
Frequent Use	500 MCM	750 MCM
Length: 19-1/8"	Jaw Opening: 1-3/16"	
Weight: 5.28 lbs.		

Heavy-Duty Ratchet Cable Cutters

- Extra thick blades, ground flat to reduce potential for breakage.
- Ratchet action for heavy-duty cutting.
- Two cutting actions - fast scissor cutting for small cable and insulation; converts automatically to ratchet mode.
- Anti-slip mechanism for positive ratchet action.
- Rubber boot protects ratchet mechanism.

Cat. No.	UPC No.	Desc.
756	34081	Heavy Duty Ratchet Cable Cutter w/Rubber Boot
756U	38793	Heavy Duty Ratchet cable Cutter w/o Rubber Boot
	34188	Cutter Head Unit (includes 2 Blades)



Specifications:

Capacity	Copper	Aluminum
Maximum	1500 MCM	1500 MCM
Frequent Use	1000 MCM	1000 MCM
Length: 27-1/2" long	Jaw Opening: 2"	
Weight: 11.41 lbs.		

Ratchet ACSR/Cable Cutter

- Extra thick blades, ground flat to reduce potential for breakage.
- Ratchet action for increased cutting power.
- Two cutting actions - fast scissor cutting for small cable; converts automatically to ratchet mode.
- Anti-slip mechanism for positive ratchet action.
- Rubber boot protects ratchet mechanism.

Cat. No.	UPC No.	Desc.
757	34084	Ratchet ACSR/Cable Cutter
757U	38794	Ratchet ACSR/Cable Cutter w/o Rubber Boot
34187	34187	Cutter Head Unit (includes 2 Blades)

Specifications:

Capacity:	954 MCM ACSR, 1/2" soft steel rod
Length:	29-1/4"
Jaw Opening:	1.18"
Weight:	12.22 lbs.



Hydraulic Cable Cutter

- Flip open head provides strength while making it easy to cut long lengths.
- Head rotates 180°.
- Thumb release lever for quick blade retraction.

Cat. No.	UPC No.	Desc.
HK510GL	02644	Hydraulic cable Cutter
03701	03701	Cutter Blade
03685	03685	Fixed Cutter Head



Specifications:

Capacity:	Aluminum & Copper Cable, ACSR: 3/4" Std. Guy Wire, Ground Rod Rebar: 1/2" Soft Steel Bolts: 11/16"
Wire Rope:	3/4"
Length:	14.5 lbs. Weight: 5.7 lbs.

Gator™ - Battery Powered Cable Cutters

- Cuts in 22 seconds. Jaws flip to save time between cuts.
- Approximately 120 cuts per battery charge.
- Jaws specially hardened and precision ground to hold sharpness.
- Lightweight & easy to use pistol grip provides excellent control & balance.
- Cutting head rotates 330° for cutting cables in tight locations
- Includes one hour battery charger, carrying case and two batteries.
- Choice of a 120 volt 230 volt or 12 volt battery charger.

Cat. No.	UPC No.	Desc.
ESG50GL11	03554	Battery Powered Cable Cutter - 120 Volt Charger
ESG50GL22	03556	Battery Powered Cable Cutter - 230 Volt Charger
ESG50GL12	03555	Battery Powered Cable Cutter - 12 Volt Charger



Specifications:

Capacity:	1.75" dia. Al or Cu cable
Length:	15.75" Height: 14.25"
Weight:	10 lbs. Battery: 12 Volts Ni Cd

Battery Powered 6 Ton Crimping Tool

- Approximately 120 crimps per battery charge.
- Crimps a very wide range of connector sizes.
- Accepts Greenlee K22 series dies and industry "W" and "X" dies.
- UL classified and CSA certified to 600 MCM with Anderson, Blackburn, Burndy ILSCO, Panduit, Thomas & Betts and Penn-Union copper connectors when used with K22 series dies.
- Flip-top style opens easily with simple push on latch and rotates 330°.
- 6 tons crimping force.
- One hour battery charger, 2 batteries and carrying case included.
- Choice of 120 volt, 230 volt, or 12 volt battery charger.



Cat. No.	UPC No.	Description
EK22GL11	03551	6 ton Battery Powered Crimper with 120 Volt Charger
EK22GL22	03553	6 ton Battery Powered Crimper with 230 Volt Charger
EK22GL12	03552	6 ton Battery Powered Crimper with 12 Volt Charger

Specifications:

Capacity:	See crimping tool capacity chart.
Battery Voltage:	12.0 volts Battery Charge Time: 50 minutes
Crimping Force:	6 tons
Length:	12.875" Weight: 9.2 lbs. with battery

Greenlee®

14 Ton Die-Type Crimper

- Delivers 14 tons of hydraulic force for crimping applications including lugs, splices, tension sleeves and "C" and "H" taps.
- 1-1/2" jaw opening for large conductors and taps.
- Automatic two-speed pump action for rapid ram advancement.
- Fast ram release w/twist of handle.
- 360° continuous head rotation.
- Sturdy, rust-proof fiberglass handles with comfort grips. Includes metal storage case.
- Uses standard "U" type dies.
- Includes steel carrying case.



Cat. No.	UPC No.	Desc.
1985	35728	Die Type Crimper
35887	35887	Load Cell w/Test Blocks
48912	48912	Test Blocks (for use w/load cells to test crimping force)

Specifications:

Capacity: See Crimping Chart
Length: 23"
Weight: 15.5 lbs.

12 Ton Die-Type Crimper

- 12 tons of force for crimping lugs, splices, overhead connectors & taps.
- 1-3/16" jaw opening - crimps up to 500 MCM.
- Automatic two-speed pump reduces cycle time.
- Ram retracts quickly with a simple twist of the handle.
- Head rotates 360° for use in tight locations.
- Fiberglass handles with rubber grips.
- Uses all "U" style dies.
- Includes steel carrying case.



Cat. No.	UPC No.	Desc.
1984	03670	Die Type Crimper
35887	35887	Load Cell w/Test Blocks
48912	48912	Test Blocks (for use w/load cells to test crimping force)

Specifications:

Capacity: See Crimping Chart
Length: 22"
Weight: 12.6 lbs.

Digital Multimeter

- Measures AC/DC voltage, DC current, plus resistance, diode test hFE test and continuity.
- Pocket-sized, digital meter with 3-1/2 digit LCD read-out.
- Polarity, low battery and overload indication.
- Includes battery and leads.



Cat. No.	UPC No.	Desc.
93-602	00044	Digital Multimeter
93-602TL	00046	Leads (2)

Capacity:

DC Voltage - 2, 20, 200, 1000 V	DC Current - 2, 20, 200mA
AC voltage - 200, 750 V	Resistance - 200, 2k, 20k, 200kΩ, 2MΩ

Size: 2.8 x 4.7 x 1.5 in. **Weight:** 6.7 oz. **Battery:** 1 - 9V, included

Inspector GFCI and Circuit Tester

- Indicates whether Ground Fault Interrupter is acceptable at 3mA, 5mA, 6mA, 7mA and 10mA.
- Tests and indicates conditions of GFCIs and circuits.
- Indicators for wiring errors glow in combinations to signal one of the following wiring conditions: correct wiring, open ground, open neutral, open hot, hot/ground reversed, hot/neutral reversed.
- Recommended for testing Pass and Seymour.

Cat. No.	UPC No.	Desc.
57081	34524	Inspector GFCI and Circuit Tester

Capacity: 120 VAC, 3 wire Systems

Size: 5-3/8 x 2-5/8 x 1-3/8 in.

Cord Length: 16"

Weight: .5 lb.

Accuracy: Current ≠ 10% + 1mA. Time ≠ 12%

Test Duration:

Current - mA	Time Duration - Sec.
3	15
5	5
6	4
7	3
10	2



STORAGE, MISC.

Small Storage Boxes

- Protects small tools and supplies. Single lock hasp for use with padlock.
- Compact side handles for easy portability.
- Heavy-duty hinges plus chain connector to hold lid in upright position.
- Welders box (1230/31510) has cutout for hoses.



Cat. No.	UPC No.	Cap. Ft ³	Ht. (in)	Width (in)	Depth (in)	Wt. (lbs)
1230	31510	3.3	12	30	16	48
1531	23274	4.5	15	31	18	51

Mobile Storage Boxes

- Easy mobility for jobsite or shop use.
- Dual recessed and concealed lock protectors for maximum security against drilling and cutting lock.
- Built-in pre-tapped skids for easy caster installation.
- Large fold-down recessed handles for convenient lifting.
- Heavy-duty piano hinges with non-removable pin.
- Steel support arms to hold lid in upright position.
- Convenient storage tray on back wall for small items (Models 2448, 2460 and 3048 only).



Casters not included

Cat. No.	UPC No.	Cap. Ft ³	Ht. (in)	Width (in)	Depth (in)	Wt. (lbs)
1332	38717	4.9	14	32	19	83
1636	38718	6.7	17	36	19	99
2142	31651	9.7	20	42	20	113
2448	23273	16	24	48	24	146
2460	23363	20	24	60	24	182
3048	23362	25	30	48	30	183

Accessories - Casters:

Cat. No.	UPC No.	Desc.	Wheel Dia. (in)	Thread (in)	Cap. per Wheel (in)	Ship Wt. (lbs)
666	15341	2 Rigid, 2 Swivel	4	2	400	13
695	30239	2 Rigid, 2 Swivel	4	2	375	10
694	35113	4 Swivel	4	2	400	13

Flat Top Boxes

- Flat-top design provides more storage capacity for tall, bulky items, plus a large work surface for jobsite plans.
- Gas springs allow easy opening & closing.
- Double-hinged cover folds up & locks out of the way.
- Dual recessed & concealed lock protectors provide maximum security against drilling & cutting locks.
- Features two reinforced steel shelves with large lip to prevent items from rolling off.
- Channel reinforcements on lid lock side panels into lid for added security when closed.
- Large fold-down recessed handles for convenient lifting.

Cat. No.	UPC No.	Cap. Ft ³	Ht. (in)	Width (in)	Depth (in)	Wt. (lbs)
3360	38719	34.5	33	60	30	256
4848	35043	40	48	48	30	292
4860	35057	50	48	60	30	305

Accessories - Casters:

Cat. No.	UPC No.	Desc.	Wheel Dia. (in)	Thread (in)	Cap. per Wheel (in)	Ship Wt. (lbs)
666	15341	2 Rigid, 2 Swivel	4	2	400	13
695	30239	2 Rigid, 2 Swivel	4	2	375	10
694	35113	4 Swivel	4	2	400	13
53904	53904	Gas Springs for 3360, 4848 & 4860 storage boxes.				



Casters not included

Hand Tools

Greenlee®

Slant Top Boxes

- Large capacity storage with traditional slant-top design.
- Gas springs allow easy opening and dosing.
- Double-hinged cover folds up and out of the way.
- Dual recessed and concealed lock protectors provide maximum security against drilling and cutting locks.
- Features two reinforced steel shelves with large lip to prevent items from rolling off (Model 2260, one shelf only).
- Large fold-down recessed handles.
- Add optional casters for easy mobility.



Casters not included

Cat. No.	UPC No.	Cap. Ft ³	Front Ht. (in)	Width (in)	Depth (in)	Back Ht. (in)	Wt. (lbs)
2260	23270	32	22	60	32	36	228
3648	23276	34	36	48	30	48	273
3660	23196	44	36	60	30	48	282

Accessories - Casters:

Cat. No.	UPC No.	Desc.	Wheel Dia. (in)	Thread (in)	Cap. per Wheel (in)	Ship Wt. (lbs)
666	15341	2 Rigid, 2 Swivel	4	2	400	13
695	30239	2 Rigid, 2 Swivel	4	2	375	10
694	35113	4 Swivel	4	2	400	13
53950	53950	Gas Springs for 2260				
53951	53951	Gas Springs for 3648 and 3660				

Bi-Fold Utility Cabinet

- Maximum storage capacity with minimum floor space requirements.
- Four individual 15" d. x 14-1/2" h. x 60" w/storage compartments on each side.
- Reinforced steel shelves welded in place for added strength & durability.
- All shelves feature large front lip to keep small items from rolling off.
- Each bi-fold section is mounted on four casters for easy opening and closing.
- Sturdy lifting eyes for transporting from floor to floor on construction sites.
- Large fold-down recessed handles.
- 6 swivel and 2 rigid 4" casters included.



Cat. No.	UPC No.	Cap. Ft ³	Ht. (in)	Width (in)	Depth (in)	Wt. (lbs)
5860	35068	60.4	58	60	30	548

Double-Door Utility Cabinet

- Complete workshop for storing supplies and tools close to work area.
- Double doors swing wide for full access to interior.
- Shelves feature large front lip to keep small items from rolling off.
- Top features full-length rain gutter for weather protection.
- Sturdy lifting eyes for transporting from floor to floor on construction sites.
- Large fold-down recessed handles.
- Optional casters available.
- 5660L: Concealed lock protector provides maximum security.



Casters not included

Cat. No.	UPC No.	Cap. Ft ³	Ht. (in)	Width (in)	Depth (in)	Wt. (lbs)
5660	30401	46	56	60	24	401
5660L	38659	46	56	60	24	401

Accessories - Casters:

Cat. No.	UPC No.	Desc.	Wheel Dia. (in)	Thread (in)	Cap. per Wheel (in)	Ship Wt. (lbs)
503	28044	2 Swivel	6	2	500	22
603	23405	2 Rigid, 2 Swivel	6	2	500	20

4-Door Cabinet (2 Front, 2 Rear)

- Flush mounted doors.
- Concealed lock protector provides maximum security.
- Large fold-down recessed handles for convenient lifting.
- Secure storage with easy access.
- Optional casters available.



Casters not included

Cat. No.	UPC No.	Cap. Ft ³	Ht. (in)	Width (in)	Depth (in)	Wt. (lbs)
5760	38722	59.3	57	60	30	437

Accessories - Casters:

Cat. No.	UPC No.	Desc.	Wheel Dia. (in)	Thread (in)	Cap. per Wheel (in)	Ship Wt. (lbs)
503	28044	4 Swivel	6	2	500	22
603	23405	2 Rigid, 2 Swivel	6	2	500	20

Mobile Workbench

- Flush mounted doors.
- Concealed lock protector provides maximum security.
- Large capacity storage box that's also a workbench.
- Tough composition board work surface on top with built-in chain vise and telescoping wrench stop.
- Two swivel casters and two rigid casters for easy mobility.
- Four reinforced steel shelves with large lip to prevent items from rolling off.
- Large fold-down recessed handles for convenient lifting.



Casters included

Cat. No.	UPC No.	Cap. Ft ³	Ht. (in)	Width (in)	Depth (in)	Wt. (lbs)
3548	31229	23	35	48	24	257

2-Door Cabinet

- Flush mounted doors
- Concealed lock protector provides maximum security.
- Large fold-down recessed handles for convenient lifting.
- Secure storage with easy access.
- Optional casters available.



Casters not included

Cat. No.	UPC No.	Cap. Ft ³	Ht. (in)	Width (in)	Depth (in)	Wt. (lbs)
3448	38720	22.5	34	48	24	201

Accessories - Casters:

Cat. No.	UPC No.	Desc.	Wheel Dia. (in)	Thread (in)	Cap. per Wheel (in)	Ship Wt. (lbs)
503	28044	4 Swivel	6	2	500	22
603	23405	2 Rigid, 2 Swivel	6	2	500	20

Greenlee®/H&M

Field Office

- Separate storage for tools and blueprints.
- Built-in key lock for top section.
- Bottom section has lock protector.
- Optional casters available.



Cat. No.	UPC No.	Cap. Ft ³	Ht. (in)	Width (in)	Depth (in)	Wt. (lbs)
8060	38724	116.5	80	60	42	626

Accessories - Casters:

Cat. No.	UPC No.	Desc.	Wheel Dia. (in)	Thread (in)	Cap. per Wheel (in)	Ship Wt. (lbs)
503	28044	4 Swivel	6	2	500	22
603	23405	2 Rigid, 2 Swivel	6	2	500	20

Castors not included

Mesh Job Box

- High visibility mesh screen on 3 sides.
- 1/2" conduit support tunnels for top storage (conduit not included).
- Sturdy handle for mobility.
- Compartments on doors for small tool and parts storage.
- Platform for shovels, picks, brooms and other long handle tools.



Cat. No.	UPC No.	Cap. Ft ³	Ht. (in)	Width (in)	Depth (in)	Wt. (lbs)
560MESH	04460	36.8	54	28	57	401

Accessories - Casters:

Cat. No.	UPC No.	Desc.	Wheel Dia. (in)	Thread (in)	Cap. per Wheel (in)	Ship Wt. (lbs)
503	28044	4 Swivel	6	2	500	22
603	23405	2 Rigid, 2 Swivel	6	2	500	20

Conduit and Pipe Storage Rack

- 7 individual bins allow you to sort by size and type.
- Made of structural square tubing.
- Folds down for storage.



Cat. No.	UPC No.	Desc.
668	15343	Mobile conduit and Pipe Rack
503	28044	6" Dia. Caster Set, 4 Swivel
603	23405	6" Dia. Caster Set, 2 Swivel and 2 Rigid

Specifications:

Capacity:	1000 lbs.
Dimensions:	58" H. x 58-1/2" L. x 34" W. Folded Down: 15-1/2" H. x 61" L. x 34" W.
Weight:	100 lbs.

Pipe Cart

- Easy one-person operation saves time and money.
- Move standard 20 ft. lengths of pipe.
- Large 4.80" x 8" wheels with 4-ply pneumatic tires and precision roller bearings for easy rolling.
- Heavy-duty steel construction for long service life.

Cat. No.	UPC No.	Desc.	Dia. (in)	Wt. (lbs)
36745	36745	Pipe Cart	20	1000



H&M Pipe Beveling Machine Co., Inc.

H&M Standard Beveling Machines



Model No.	Std. Pipe Sizes (in)	Net Wt. (lbs)	Ship. Wt. (lbs)	Ship. Dim.	Manual	Motor-ized	Cuboid Spacer (Patented)
No. 0	2 2.5 3 4	9.50	12	9 x 11 x 11	Std.	Opt.	Std.
No. 1	3 4 6 8	18	25	13 x 16 x 17	Std.	Opt.	Std.
No. 2	7 8 10 12	27	38	15 x 22 x 22	Std.	Opt.	Std.
No. 3	14 16 18 20	55	75	13 x 34 x 34	Std.	Opt.	Std.
No. 4	20 22 24 26	81	118	14 x 36 x 45	Std.	Opt.	Std.
No. 30	24 26 28 30	92	133	14 x 38 x 48	Std.	Opt.	Std.
No. 5	30 32 34 36	145	250	16 x 48 x 61	Std.	Opt.	Std.
No. 42	36 38 40 42	185	320	23 x 53 x 63	Std.	Opt.	Std.
No. 6	42 44 46 48	220	350	24 x 55 x 72	Std.	Opt.	Std.

Spacers for odd pipe sizes and tubing can be special ordered

Shape Cutting Attachments and Templates

Even novices to pipe cutting and beveling can achieve superior-quality craftsmanship in making saddles, Y's, T's, miters and various angle cuts on all H&M machines with shape cutting attachments and templates.

Each custom-made, H&M prefabricated metal template is bolted to the face of the ring gear. The torch is spring-loaded against the template. While the machine rotates around the pipe, the torch moves along the same path as the template. The triangular design of hard-anodized travel tubes and carriage rollers ensure lateral torch stability and smooth, consistent, horizontal torch travel during a complete revolution. Achieve accurate cuts from proven patterns every time, even when cutting miters up to 45 degrees.



Examples of Custom-Made Templates from H&M

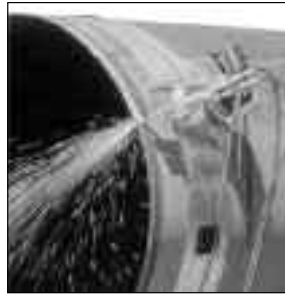
Model No.	Net Wt. (lbs)	Recommended Usage
Model No. 0	7	Model No. 0
Std. 24"	11	Model Nos. 1 & 2
Std. 36"	13	Model Nos. 3 & 4

Hand Tools

H&M

Band-Type Pipe Cutting and Beveling Machine

H&M is the leader with its Band-Type Pipe Cutting and Beveling Machine for speed, accuracy and versatile operations on large-diameter pipe. The H&M Motorized Beveling Head is constructed of cast aluminum. Its lightweight, compact design allows for easy one-man setup and operation. Seventeen different stainless steel bands provide a cutting range of 10" - to 96" -diameter pipe, plus special bands are available to cut pipe diameters up to 20 feet. In about five minutes a single operator can position the band and beveling machine head on 48" -diameter pipe and begin the cutting process. H&M's machine has the following features:



H&M Stainless Steel Bands

- Economical – each band overlaps numerous pipe sizes
 - Automatically compensates for over- and under-sized pipe
 - Unaffected by dope or coating on the pipe
 - Assures accuracy – overlapping squares up the band
 - Flexibility conforms to out-of-round pipe
- H&M Motorized Beveling Machine Head**
- Rugged, lightweight cast aluminum chassis
 - Easily portable at only 18 lbs.
 - Works with all H&M stainless steel bands
 - Variable speed control box with forward and reverse capabilities
 - Standard 90-volt DC motor
 - Speed ranges – 2 ipm to 24 ipm
 - 220-volt optional
 - Plasma speeds optional.

Note: The optional H&M Band-Type Machine Storage Box is ruggedly constructed, making it a safe storage place for one beveling machine head and several bands, plus torches, cutting tips, strikers, tip cleaners and more.

Band-Type Pipe Cutting and Bev			
Model	Part No.	Ship. Wt.(in)	Ship. Dim.(in)
Beveling Machine Head	BMH	20	18 x 12 x 10
Storage Box	BANDBOX	38	24 x 24 x 10

Note: Head includes a 115-volt AC control box, DC reversible motor, torch holder and works with all band sizes (cutting torch and tip not included).

Note: Box provides storage for one beveling machine head and multiple bands.

Stainless Steel Bands				
Model No.	Part No.	Pipe Sizes (in)	Ship Wt. (lbs)	Ship Dim. (in)
14" Band	BAND14	10 to 14	6	12 x 12 x 10
20" Band	BAND20	14 to 20	8	12 x 12 x 10
26" Band	BAND26	20 to 26	9	12 x 12 x 10
30" Band	BAND30	26 to 30	10	12 x 12 x 10
36" Band	BAND36	30 to 36	12	20 x 20 x 13
42" Band	BAND42	36 to 42	14	20 x 20 x 13
48" Band	BAND48	42 to 48	15	20 x 20 x 13
56" Band	BAND56	48 to 56	16	20 x 20 x 13
60" Band	BAND60	56 to 60	17	20 x 20 x 13
64" Band	BAND64	60 to 64	18	20 x 20 x 13
68" Band	BAND68	64 to 68	19	20 x 20 x 13
72" Band	BAND72	68 to 72	20	20 x 20 x 13
76" Band	BAND76	72 to 76	21	20 x 20 x 13
80" Band	BAND80	76 to 80	22	20 x 20 x 13
84" Band	BAND84	80 to 84	23	20 x 20 x 13
90" Band	BAND90	84 to 90	24	20 x 20 x 13
96" Band	BAND96	90 to 96	25	20 x 20 x 13

Larger bands quoted upon request.

Note: Each band includes a drive chain & a coupling.

H&M Pipe-End-Prep Lathes

H&M presents the perfect tools for beveling, facing and counterboring, the H&M Pipe-End-Prep Lathe PEPL-400 for 1" to 4" pipe or tube and the PEPL-800 for 3" to 8" pipe or tube.

Both tools place bevels, lands and counterbore on ferrous and nonferrous materials up to SCH 160. Special tooling is available for heavier wall thicknesses. They are pneumatic-driven, lightweight, portable and complete with the following features and specifications.

PEPL-400

- 1" to 4" pipe capacity – 1" SCH 40 (1.049 ID) to 4" SCH 40 (4.02 ID)
- 1-5/8 hp heavy-duty pneumatic motor – 55 cfm and 90 psi
- One mandrel fits 1" to 4" pipe
- Adjustable "lock in" torque-accepting mandrel eliminates backlash and chatter
- 4" cutter head
- Bevels, faces and counterbores simultaneously
- 2" cutter head available for confined spaces
- One 37.5-degree bevel bit (PB-0333) and one facing bit (PB-0258)
- Heavy-duty storage case
- Operation Manual
- Portable
- Net weight 24 lbs.



PEPL-400

PEPL-800

- 3" to 8" pipe capacity – 3" SCH 40 (3.068 ID) to 8" SCH 40 (7.981 ID)
- 2-1/2 hp heavy-duty pneumatic motor – 70 cfm and 90 psi
- One mandrel fits 3" to 8" pipe
- Adjustable "lock-in" torque-accepting mandrel eliminates backlash and chatter
- Two sets of tool bit holders: one set 3" to 6" and one set 4" to 8"
- Bevels, faces and counterbores simultaneously
- One 37.5-degree bevel bit (PB-2905) and one facing bit (PB-2904)
- Heavy-duty storage case
- Operation manual
- Portable
- Net weight 58 lbs.



PEPL-800

H&M APC-16 Adjustable Pipe Clamp

Here is one great tool that does the work of 12 cage-type clamps. The H&M APC-16 Adjustable Pipe Clamp comes complete and ready to align 2" - to 16" -diameter pipe.

Made of durable, ductile cast iron, the H&M APC-16 features convenient carrying handles and precisely machined V's for perfect pipe alignment every time. At only 31 lbs. it is also lightweight and easily portable to any job site. One person can position the clamp and start welding in about two minutes for most applications and pipe sizes.



Acme 3/4-6" threaded bolts and nuts tighten the pipe chain around the pipe. Each adjusting nut is fitted with its own handle. No extra tools or ratchet handles are needed. The Acme threaded bolts, nuts and chain are captive to the pipe clamp, eliminating any lost or misplaced items.

H&M/ Keson®

General Pipe Clamps

H&M offers General Pipe Clamps for 2" - to 60" -diameter pipe. Each is hinged for easy positioning around the pipe and available with flat or arched cross bars.

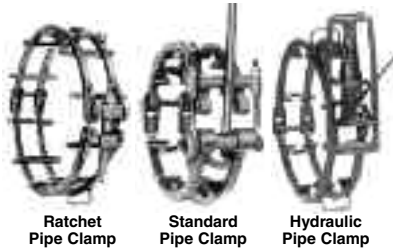
The Standard Pipe Clamp features a lever and a cam for tightening the clamp around both ends of an adjoining pipe.

The hydraulic Pipe Clamp employs an eight-ton hydraulic jack for opening and closing the clamp. This feature is especially important when aligning 16" - to 60" -diameter pipe.

The Ratchet Clamp includes precision-cut Acme thread design for strength and easy operation, plus an enclosed mechanism to prevent mud & dirt contamination. This clamp works on 10" - to 60" diameter pipe.

Note: The H&M Adjustable Pipe Clamp and General Pipe clamps are only designed for aligning pipe ends while welding. DO NOT use these clamps to support the weight of a pipe being lifted or moved and DO NOT use these clamps with shims, wedges or cheaters.

Model	Pipe Sizes (in)
Standard	2" to 60"
Standard No Tack	3" to 60"
Hydraulic	16" to 60"
Hydraulic No Tack	16" to 60"
Ratchet	10" to 60"
Ratchet No Tack	14" to 60"



Master Chain Clamp

H&M introduces its new Master Chain Clamp, a versatile clamping system designed to increase productivity. One person can quickly and safely perform perfect fit-ups of flanges, tees and elbows in minutes. Each Master Chain Clamp works 4" - to 16" -diameter pipe/fittings. Additional chain links and jackbars can be added for larger pipe sizes. The clamp weighs 28 lbs. when fully assembled, but can be streamlined when working smaller-sized pipe.



Set-up, positioning and alignment for welding is now faster, easier & more precise.

WARNING: H&M's Master Chain Clamp is exclusively designed as a precision tool for aligning pipe fittings to pipe and end-to-end alignment of pipe for welding. It is NOT intended to support or lift the entire length of a pipe. Always exercise extreme caution when using this product.

Quick-Acting Flange Pins

With H&M's Quick-Acting Flange Pins start welding in minutes with very little fit-up time. Endless threading and unthreading of flange pins are now completely eliminated.

The secret is in the knob. Just tilt the knob to bypass the flange pin threads, then straighten the knob to grip the threads for tight, positive clamping. Removal is just as quick and easy. Loosen the knob, tilt and remove.

These precise, conical flange pins provide perfect centering on 5/8" to 1-1/2" bolt holes. Try a set of H&M Quick-Acting Flange Pins and experience why they are a "hole" lot better.



Keson®

Specialty Tapes

Depth Gauge

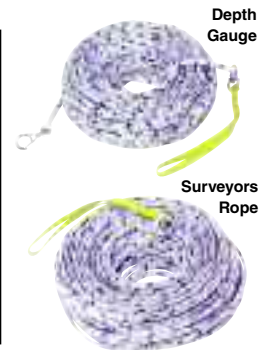
Developed for seismo-graphic measuring. The numbers are graduated from snap ring end hook upward to the strap handle. Simply attach a lead or brass weight (not included) to the snap ring and you're ready to measure depth.

A combination of extruded fiberglass and polyvinyl chloride make a very lightweight, tough, flexible rope that will withstand constant use in mud, water and over abrasive terrain.

Surveyors Rope

Quality engineered fiberglass rope with the same characteristics of the depth gauge. Makes an ideal drag chain for rough surveying measurements. The numbers are graduated from the strap handle upward to the end of rope.

Description	Model No.	Lgth. (ft)	Graduation
Depth Gauge	DG-50-18	50	Inches & Feet
	DG-100-18	100	Inches & Feet
	DG-200-18	200	Inches & Feet
Surveyors Rope 18 Series	SR-18-100	100	Inches & Feet
	SR-18-200	200	Inches & Feet
	SR-18-300	300	Inches & Feet
Surveyors Rope 10 Series	SR-10-100	100	10ths of a Foot
	SR-10-200	200	10ths of a Foot
	SR-10-300	300	10ths of a Foot
Surveyors Metric Rope	SR-30M	30 meters	Metric
	SR-50M	50 meters	Metric
	SR-60M	60 meters	Metric
	SR-100M	100 meters	Metric



Roadrunner® Measuring Wheels

Model RR-318N Graduated: Feet and inches

Model RR-310 Graduated: Feet and 10ths of a Foot

Model RR-3M Graduated: Metric & Decimeters

Ideal for long indoor runs such as plant floor plans or outdoor measuring on firm surfaces. Large 1 meter circumference (39.37") is more accurate over rough surfaces. The modern 3 spoke design wheel is not likely to get caught when measuring in tall grass, unlike wire spokes. Wheel is made of tough engineered plastic and has a molded rubber tire. No need to worry about corrosion. The unit adds in forward motion and subtracts in backwards motion. Counter features 5 digits and a reset button. The sturdy telescoping aluminum handle adjusts to fit the individual. Include: curved handle and molded grip. Weight 3.6 lbs. Packed 1 per carton. Backed by two-year warranty from date of purchase.



Model	UPC	Units	Dia.	Circ.	Special Features
RR318N	008506	ft., in.	12-1/2 in.	3 ft.	Best Seller
RR310	010172	ft., 10ths	12-1/2 in.	3 ft.	
RR3M	010189	m, dm	.318 m	1m	
RR418	010196	ft., in.	15-1/2 in.	4 ft.	Great for rough terrain
RR410	010202	ft., 10ths	15-1/2 in.	4 ft.	Great for rough terrain

Hand Tools

Keson®/Klein Tools

Giant Chalk Boxes

- "Glovable" grip for cold weather or rough conditions
- Huge BigMouth opening to ease fill up and a no-leak stopper to keep it shut until you want to chalk up.
- Rewind — Steel crank for long life
- Recessed handle clasp stores the handle out of the way
- String — Loose woven polyester is the standard string that holds chalk until it's snapped right where you want it. 1/8th of an inch thick for bold lines.
- ABS case takes a beating and the orange can be found quickly in clutter



Model	UPC	Housing	Handle	Capacity	String
G100	020089	ABS	metal	15oz.	100 ft., thick
G110	021895	ABS	metal	12oz.	110 ft., thick
G130	005864	ABS	metal	27oz.	130 ft., thick

Keson Ultra-Fine® Marking Chalk

Ultra-Fine® Marking Chalk is formulated to Achieve Perfect Line Every Time! Constant Color Tones.

Keson chalk is a blend of basic inert materials with brilliant color oxides added to achieve the constant color tones needed for strong, sharp lines.

Colors include: Red, White, Blue and Yellow as well as Fluorescent Glo/Orange and Glo/Lime. Fluorescent colors are ideal when there is limited light available such as in new construction.

Keson Ultra-Fine Marking Chalk comes in 4 popular sizes including: 4 oz., 8 oz., 12 oz. and 5 lb. All size containers are functional squeeze bottles with color coordinated condiment style caps. Simply insert the long spout into the chalk line reel receptacle and squeeze the bottle with a gentle pumping action until reel is full.



Color	Size	Model No.
Red	12 oz.	12R
White	12 oz.	12W
Blue	12 oz.	12B
Yellow	12 oz.	12Y
Red	5 lb.	105R
White	5 lb.	105W
Blue	5 lb.	105B
Yellow	5 lb.	105Y

Klein

SIDE-CUTTING PLIERS

- Custom, US-made tool steel.
- Hot-riveted joint ensures smooth action and no handle wobble.
- Induction hardened cutting knives for long life.
- Unique handle tempering helps absorb the "snap" when cutting wire.
- "Handform" handles for full gripping and cutting power.
- Precision-hardened plier head for on-the-job toughness.
- Sure-gripping cross-hatched knurled jaws.
- Plastic-dipped handles* for comfort and ease of identification.
- Journeyman™ pliers available for some styles.

* WARNING: Plastic-Dipped or slip-on plastic handles are NOT intended for protection against electrical shock. This warning includes heavy-duty plastic-dipped handles. NEVER use any pliers or cutters on live electrical circuits.

Standard NE-Type Side Cutters

D201-8NE



Cat. No.	Overall Lgth. (in)	Jaw Lgth. (in)	Jaw Width (in)	Jaw Thkns (in)	Knife Lgth (in)	Handle Finish	Wght (lbs)
Streamlined Design - New England Nose							
D201-7NE	7-7/8	1-9/32	1-1/16	1/2	5/8	plastic-dipped	.55
D201-8NE	8-11/16	1-7/16	1-3/16	5/8	23/32	plastic-dipped	.92
D201-9NE	9-3/8	1-19/32	1-5/16	5/8	25/32	plastic-dipped	1.09
Square Nose							
D201-8	8-11/16	1-7/16	1-7/32	5/8	23/32	plastic-dipped	.93
D201-9	9-3/8	1-19/32	1-5/16	5/8	25/32	plastic-dipped	1.10

High-Leverage Side-Cutting Pliers Heavy-Duty Cutting 2000 Series®

- Cuts hardwire, ACSR, screws, nails and most hardened wire.
- High-leverage design. Rivet is closer to the cutting edge for 46% greater cutting and gripping power than other plier designs.
- Streamlined design with sure-gripping, cross-hatched knurled jaws.
- Features combination polished and black-oxide finish



D2000-9NE

Cat. No.	Overall Lgth (in)	Jaw Lgth. (in)	Jaw Width (in)	Jaw Thkns (in)	Knife Lgth (in)	Handle Finish	Wght (lbs)
D2000-7	7-7/8	1-9/32	1-1/32	1/2	3/4	plastic-dipped	.66
D2000-8	8-11/16	1-7/16	1-7/64	5/8	3/4	plastic-dipped	.85
D2000-9NE	9-3/8	1-19/32	1-1/4	5/8	25/32	plastic-dipped	1.09
HD2000-9NE	9-1/2	1-19/32	1-1/4	5/8	25/32	heavy-duty, oversized, plastic-dipped	1.15
Journeyman 2000 Series - Dual-material handles							
J2000-8	8-13/16	1-7/16	1-7/64	5/8	3/4	Journeyman	.93
J2000-9NE	9-1/2	1-19/32	1-1/4	5/8	25/32	Journeyman	1.13

High-Leverage NE-Type Side Cutters

- High-leverage design. Rivet is closer to the cutting edge for 46% greater cutting and gripping power than other plier designs.
- Streamlined design with sure-gripping, cross-hatched knurled jaws.



D213-9NE

Cat. No.	Overall Lgth (in)	Jaw Lgth. (in)	Jaw Width (in)	Jaw Thkns (in)	Knife Lgth (in)	Handle Finish	Wght (lbs)
D213-8NE	8-11/16	1-7/16	1-3/16	5/8	23/32	plastic-dipped	.90
213-9NE	9-1/4	1-19/32	1-1/4	5/8	25-32	plain	1.05
D213-9NE	9-3/8	1-19/32	1-1/4	5/8	25/32	plastic-dipped	1.14
HD213-9NE	9-1/2	1-19/32	1-1/4	5/8	25/32	heavy-duty, oversized, plastic-dipped	1.15
Journeyman 2000 Series - Dual-material handles							
J213-8NE	8-13/16	1-7/16	1-3/16	5/8	23/32	Journeyman	.97
J213-9NE	9-1/2	1-19/32	1-1/4	5/8	25/32	Journeyman	1.13

High-Leverage NE-Type Side Cutters with Fish-Tape Pulling

- Quickly and easily pulls 1/8" or 1/4" flat steel fish tape without damaging the tape.
- High-leverage design. Rivet is closer to the cutting edge for 46% greater cutting and gripping power than other plier designs.
- Streamlined design with sure-gripping, cross-hatched knurled jaws.



D213-9NETP

Cat. No.	Overall Lgth (in)	Jaw Lgth. (in)	Jaw Width (in)	Jaw Thkns (in)	Knife Lgth (in)	Handle Finish	Wght (lbs)
D213-9NETP	9-3/8	1-19/32	1-1/4	5/8	25/32	plastic-dipped	1.06
Journeyman Series - Dual-material handles							
J213-9NETP	9-1/2	1-19/32	1-1/4	5/8	25/32	Journeyman	1.11
2000 Series - Heavy-duty cutting knives							
D2000-9NETP	9-3/8	1-19/32	1-1/4	5/8	25/32	plastic-dipped	1.09
Journeyman 2000 Series - Dual-material handles							
J2000-9NETP	9-1/2	1-19/32	1-1/4	5/8	25/32	Journeyman	1.14

Klein Tools

High-Leverage NE-Type Side Cutters with Crimping Die

- Crimping die behind hinge for superior leverage crimping of non-insulated connectors, lugs and terminals.
- High-leverage design. Rivet is closer to the cutting edge for 46% greater cutting and gripping power than other plier designs.
- Streamlined design with rounded nose and sure-gripping, cross-hatched knurled jaws.



D213-9NECR

Cat. No.	Overall Lgth (in)	Jaw Lgth. (in)	Jaw Width (in)	Jaw Thkns (in)	Knife Lgth (in)	Handle Finish	Wght (lbs)
D213-9NECR	9-3/8	1-19/32	1-1/4	5/8	25/32	plastic-dipped	1.08
Journeyman Series - Dual-material handles							
J213-9NECR	9-1/2	1-19/32	1-1/4	5/8	25/32	Journeyman	1.11
2000 Series - Heavy-duty cutting knives							
D2000-9NECR	9-3/8	1-19/32	1-1/4	5/8	25/32	plastic-dipped	1.08
Journeyman 2000 Series - Dual-material handles							
J2000-9NECR	9-1/2	1-19/32	1-1/4	5/8	25/32	Journeyman	1.12

High-Leverage Side Cutters

- High-leverage design. Rivet is closer to the cutting edge for 46% greater cutting and gripping power than other plier designs.
- Sure-gripping, cross-hatched knurled jaws



D213-9

Cat. No.	Overall Lgth (in)	Jaw Lgth. (in)	Jaw Width (in)	Jaw Thkns (in)	Knife Lgth (in)	Handle Finish	Wght (lbs)
D213-9	9-3/8	1-19/32	1-1/4	5/8	25/32	plastic-dipped	1.07

High-Leverage NE-Type Side Cutters with Bolt-Thread Holder

- Hinge opening holds and cleans 5/8" pole line and hardware bolts or threaded rods.
- High-leverage design. Rivet is closer to the cutting edge for 46% greater cutting and gripping power than other plier designs.
- Streamlined design with rounded nose and sure-gripping, cross-hatched knurled jaw.



D213-9NETH

Cat. No.	Overall Lgth (in)	Jaw Lgth. (in)	Jaw Width (in)	Jaw Thkns (in)	Knife Lgth (in)	Handle Finish	Wght (lbs)
D213-9NETH	9-3/8	1-19/32	1-1/4	5/8	25/32	plastic-dipped	1.18
HD213-9NETH	9-1/2	1-19/32	1-1/4	5/8	25/32	heavy-duty, oversized, plastic-dipped	1.12

Universal Side-Cutting Pliers Connector Crimping

- Crimping die behind hinge for superior leverage crimping non-insulated connectors, lugs and terminals.
- Toothed pipe-grip for greater gripping power.



12098

Cat. No.	Overall Lgth (in)	Jaw Lgth. (in)	Jaw Width (in)	Jaw Thkns (in)	Knife Lgth (in)	Handle Finish	Wght (lbs)
12098	8-5/8	1-25/32	1-1/32	17/32	3/4	plastic-dipped	.72
Journeyman Series - Dual-material handles							
J12098	8-3/4	1-25/32	1-1/32	17/32	3/4	Journeyman	.82

High Leverage End-Cutting Pliers

- Wide throat clearance for clean, even cutting of wire or nails at close range.
- High-leverage design provides greater cutting power at the knives than other plier designs.
- Extended handles for longer reach and increased leverage.



D232-8

Cat. No.	Overall Lgth (in)	Jaw Lgth. (in)	Jaw Width (in)	Jaw Thkns (in)	Knife Lgth (in)	Handle Finish	Wght (lbs)
D232-8	8-1/2	3/8	1-3/16	19/32	1-3/16	plastic-dipped	.71

High-Leverage Square Nose Ironworker's Work Pliers

- Twists and cuts soft annealed rebar tie wire.
- High-leverage design. Rivet is closer to the cutting edge for 46% greater cutting and gripping power than other plier designs.
- Hook bend handle.
- Spring-loaded action for self-opening.
- Heavy-duty knurled jaws.



D213-9ST

Cat. No.	Overall Lgth (in)	Jaw Lgth. (in)	Jaw Width (in)	Jaw Thkns (in)	Knife Lgth (in)	Handle Finish	Wght (lbs)
213-9ST	9-1/4	1-19/32	1-1/4	5/8	25/32	plain	1.02
D213-9ST	9-3/8	1-19/32	1-1/4	5/8	25/32	plastic-dipped	1.10
2000 Series - Heavy-duty cutting knives							
D2000-9ST	9-3/8	1-19/32	1-1/4	5/8	25/32	plastic-dipped	1.10

Standard Square Nose Ironworker's Work Pliers

- Twists and cuts soft annealed rebar tie wire.
- Hook bend handle.
- Spring-loaded action for self-opening.
- Heavy-duty knurled jaws.



D201-7CST

Cat. No.	Overall Lgth (in)	Jaw Lgth. (in)	Jaw Width (in)	Jaw Thkns (in)	Knife Lgth (in)	Handle Finish	Wght (lbs)
201-7CST	9-1/8	1-9/32	1-5/32	1/2	5/8	plain	.67
D201-7CST	9-1/4	1-9/32	1-5/32	1/2	5/8	plastic-dipped	.63
2000 Series - Heavy-duty cutting knives							
D2000-7CST	9-1/4	1-9/32	1-5/32	1/2	5/8	plastic-dipped	.63

DIAGONAL-CUTTING PLIERS

Klein diagonal-cutting pliers come in two styles: Standard duty, which has long been recognized for their premium quality design and rugged, precision construction; and the innovative Klein "2000 SERIES" with super-tough cutting knives, specially designed and heat treated to cut bolts, nails, ACSR and most hardened wire without damage. All "2000 SERIES" have combination polished and black-oxide finish.

Warning: Plastic-Dipped or slip-on plastic handles are not intended for protection against electrical shock. NEVER use any pliers or cutters on live electrical circuits. Note: Dimensions for pliers shown are accurate w/i accepted commercial tolerances, which allow slight variations that normally result from forging & grinding operations.

High-Leverage Diagonal Cutters

- High-leverage design. Rivet is closer to the cutting edge for 36% greater cutting power than other plier designs.



D228-8

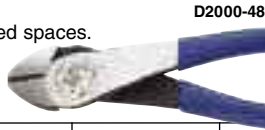
Cat. No.	Overall Lgth (in)	Jaw Lgth. (in)	Jaw Width (in)	Jaw Thkns (in)	Cutting Knives	Handle Finish	Wght (lbs)
D228-7	7-1/8	13/16	1-3/16	7/16	standard	plastic-dipped	.54
D228-8	8-1/16	13/16	1-3/16	7/16	standard	plastic-dipped	.60
Journeyman Series - Dual-material handles							
J228-8	8-1/8	13/16	1-3/16	7/16	standard	Journeyman	.67
2000 Series - Heavy-duty cutting knives							
D2000-28	9-3/8	13/16	1-3/16	7/16	standard	plastic-dipped	.60
Journeyman 2000 Series - Dual-material handles							
J2000-28	9-1/2	13/16	1-3/16	7/16	standard	Journeyman	.67

Hand Tools

Klein Tools

High-Leverage Diagonal Cutters with Angled Head

- Angled head design for easy work in confined spaces.
- High-leverage design. Rivet is closer to the cutting edge for 36% greater cutting power than other plier designs.



Cat. No.	Overall Lgth (in)	Jaw Lgth. (in)	Jaw Width (in)	Jaw Thkns (in)	Cutting Knives	Handle Finish	Wght (lbs)
D248-8	8-1/16	13/16	1-3/16	7/16	standard	plastic-dipped	.60
D238-8	8-1/16	13/16	1-3/16	7/16	semi-flush*	plastic-dipped	.59
Journeyman Series - Dual-material handles							
J248-8	8-1/8	13/16	1-3/16	7/16	standard	Journeyman	.61
2000 Series - Heavy-duty cutting knives							
D2000-48	8-1/16	13/16	1-3/16	7/16	standard	plastic-dipped	.60
Journeyman 2000 Series - Dual-material handles							
J2000-48	8-1/8	13/16	1-3/16	7/16	standard	Journeyman	.61

*Semi-flush cutting knives cut cherry burrel rivets. For use on non-ferrous wire only.

High-Leverage Diagonal Cutters with Stripping Holes

- Cleanly strips 12 and 14 AWG wire.
- High-leverage design. Rivet is closer to the cutting edge for 36% greater cutting power than other plier designs.



Cat. No.	Overall Lgth (in)	Jaw Lgth. (in)	Jaw Width (in)	Jaw Thkns (in)	Cutting Knives	Handle Finish	Wght (lbs)
D243-8	8-1/16	13/16	1-3/16	7/16	standard	plastic-dipped	.60

High-Leverage Diagonal Cutters with Tapered Nose

- Heavy-duty tapered nose design.
- One-inch jaws easily reach into confined spaces.



Cat. No.	Overall Lgth (in)	Jaw Lgth. (in)	Jaw Width (in)	Jaw Thkns (in)	Cutting Knives	Handle Finish	Wght (lbs)
D220-7	7-11/16	13/16	1	1/2	standard	plastic-dipped	.54

Standard Diagonal-Cutting Pliers Semi-Flush Cutting

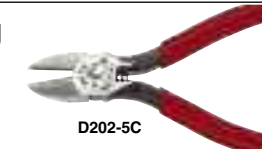
- Trims plastic or printed circuit boards.
- Spring-loaded for self-opening action.



Cat. No.	Overall Lgth (in)	Jaw Lgth. (in)	Jaw Width (in)	Jaw Thkns (in)	Cutting Knives	Handle Finish	Wght (lbs)
D210-5C	5-9/16	13/16	11/16	7/16	semi-flush	plastic-dipped	.27
D210-6C	6-1/8	13/16	11/16	7/16	semi-flush	plastic-dipped	.29

Standard Diagonal-Cutting Pliers Tapered Nose

- Easy working in confined areas.



Cat. No.	Overall Lgth (in)	Jaw Lgth. (in)	Jaw Width (in)	Jaw Thkns (in)	Cutting Knives	Handle Finish	Wght (lbs)
D202-5	5-9/16	13/16	11/16	7/16	standard	plastic-dipped	.28
D202-5C*	5-9/16	13/16	11/16	7/16	standard	plastic-dipped	.27
D202-6	6-1/8	13/16	11/16	7/16	standard	plastic-dipped	.29
D202-6C*	6-1/8	13/16	11/16	7/16	standard	plastic-dipped	.31
Bell System Type "W" Notches - Slit insulation cleanly							
D202-5SW	5-9/16	13/16	11/16	7/16	standard	plastic-dipped	.28

*Spring-Loaded action for self-opening

Heavy-Duty Diagonal Cutters All Purpose

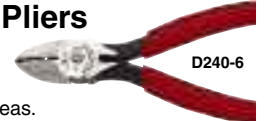
- Heavier design for all-purpose use.
- Tapered nose for easy working in confined areas.



Cat. No.	Overall Lgth (in)	Jaw Lgth. (in)	Jaw Width (in)	Jaw Thkns (in)	Cutting Knives	Handle Finish	Wght (lbs)
D252-6	6-1/8	13/16	3/4	7/16	standard	plastic-dipped	.38
Bell System Type "W" Notches - Slit insulation cleanly							
D252-6SW	6-1/8	13/16	3/4	7/16	standard	plastic-dipped	.33

Standard Diagonal-Cutting Pliers Stripping Hole

- Heavier design for all-purpose use.
- Tapered nose for easy working in confined areas.



Cat. No.	Overall Lgth (in)	Jaw Lgth. (in)	Jaw Width (in)	Jaw Thkns (in)	Cutting Knives	Handle Finish	Wght (lbs)
D240-6	6-1/8	13/16	11/16	7/16	standard	plastic-dipped	.30

Diagonal Pliers - "W" & "V" Notches

- "W" notches to cleanly slit insulation.
- "V" notch at hinge for quick insulation crushing.
- Tapered nose for easy working in confined areas and close tip cutting.



Cat. No.	Overall Lgth (in)	Jaw Lgth. (in)	Jaw Width (in)	Jaw Thkns (in)	Cutting Knives	Handle Finish	Wght (lbs)
D528V	5-3/16	13/16	9/16	3/8	standard	plastic-dipped	.20

Midget Standard Diagonal-Cutting Pliers

- Tapered nose for easy working in confined areas and close tip cutting.



Cat. No.	Overall Lgth (in)	Jaw Lgth. (in)	Jaw Width (in)	Jaw Thkns (in)	Cutting Knives	Handle Finish	Wght (lbs)
D257-4	4-1/4	1/2	7/16	1/4	semi-flush	plastic-dipped	.12
D257-4C*	4-1/4	1/2	7/16	1/4	semi-flush	plastic-dipped	.12

*Spring-Loaded action for self-opening

Midget Diagonal-Cutting Pliers Pointed Nose

- Sharp pointed nose for precise tip cutting and trimming printed circuit boards.
- Spring-loaded for self-opening action.



Cat. No.	Overall Lgth (in)	Jaw Lgth. (in)	Jaw Width (in)	Jaw Thkns (in)	Cutting Knives	Handle Finish	Wght (lbs)
D209-4C	4-1/4	1/2	7/16	1/4	semi-flush	plastic-dipped	.13
D209-5C	5-1-16	11/16	9/16	3/8	semi-flush	plastic-dipped	.19

Midget Diagonal-Cutting - Pointed Nose, Extra Narrow Jaws

- Tapered nose for easy working in confined areas and close tip cutting.



Cat. No.	Overall Lgth (in)	Jaw Lgth. (in)	Jaw Width (in)	Jaw Thkns (in)	Cutting Knives	Handle Finish	Wght (lbs)
D245-5	5-1-16	11/16	9/16	3/8	semi-flush	plastic-dipped	.20

Klein Tools

Midget Diagonal-Cutting Pointed Nose, Extra Narrow Jaws

- Narrow jaw and hinge for delicate work in tight areas.
- Sharp pointed-nose for precise tip cutting.
- Spring-loaded action for self-opening.



Cat. No.	Overall Lgth (in)	Jaw Lgth. (in)	Jaw Width (in)	Jaw Thkns (in)	Cutting Knives	Handle Finish	Wght (lbs)
D259-4C	4-1/4	1/2	13/32	1/4	flush	plastic-dipped	.12

Midget Diagonal-Cutting – Tapered Nose, Midget Jaws

- Miniature jaw for close-quarter work with maximum visibility.
- Sharp pointed nose for precise tip cutting.
- Spring-loaded action for self-opening.



Cat. No.	Overall Lgth (in)	Jaw Lgth. (in)	Jaw Width (in)	Jaw Thkns (in)	Cutting Knives	Handle Finish	Wght (lbs)
D295-4C	4-1/4	1/2	3/8	1/4	flush	plastic-dipped	.11

Electronics Diagonal-Cutting Pointed Nose, Narrow Jaws

- Narrow jaw and hinge for delicate work in tight areas.
- Sharp pointed-nose for precise tip cutting.
- Spring-loaded action for self-opening.



Cat. No.	Overall Lgth (in)	Jaw Lgth. (in)	Jaw Width (in)	Jaw Thkns (in)	Cutting Knives	Handle Finish	Wght (lbs)
D244-5C	5-1/16	11/16	1/2	5/16	flush	plastic-dipped	.18

Electronics Midget Diagonal-Cutting Pliers Nickel Ribbon Wire Cutters

- Designed to cut nickel ribbon wire.
- Nose tip is 1/32" for precise work in confined areas.
- Tip cutting knife is 3/16" long for precise cutting.
- Spring-loaded action for self-opening.



Cat. No.	Overall Lgth (in)	Jaw Lgth. (in)	Jaw Width (in)	Jaw Thkns (in)	Cutting Knives	Handle Finish	Wght (lbs)
D230-4C	4-1/4	1/2	7/16	1/4	semi-flush	plastic-dipped	.12

LONG-NOSE PLIERS

- Hot-riveted joint ensures smooth action and no handle wobble.
- Slim head design for working in confined areas.
- Plastic dipped handles for comfort and ease of identification.

Standard Long-Nose Pliers

- Knurled jaws for sure wrapping and looping.
- Curved handles provide greater tool control.



Cat. No.	Overall Lgth (in)	Jaw Lgth. (in)	Jaw Width (in)	Jaw Thkns (in)	Point Thkns (in)	Handle Finish	Wght (lbs)
D301-5C*	5-5/8	1-1/2	11/16	3/8	1/16	plastic-dipped	.25
D301-6	6-5/8	1-7/8	11/16	3/8	3/32	plastic-dipped	.29
D301-6C*	6-5/8	1-7/8	11/16	3/8	1/16	plastic-dipped	.28
D301-7C	7-3/16	2-7/16	11/16	3/8	1/16	plastic-dipped	.30

Standard Long-Nose Pliers – Side-Cutting

- Induction hardened, long-lasting cutting knives
- Knurled jaws for sure wrapping and looping.
- Curved handles provide greater tool control.



Cat. No.	Overall Lgth (in)	Jaw Lgth. (in)	Jaw Width (in)	Jaw Thkns (in)	Knife Lgth. (in)	Point Thkns (in)	Handle Finish	Wght (lbs)
D203-5	5-5/8	1-1/2	11/16	3/8	1/2	3/32	plastic-dipped	.23
D203-5C*	5-5/8	1-1/2	11-16	3/8	1/2	1/16	plastic-dipped	.23
D203-6	6-5/8	1-7/8	11/16	3/8	1/2	3/32	plastic-dipped	.27
D203-6C*	6-5/8	1-7/8	11/16	3/8	1/2	1/16	plastic-dipped	.27
D203-7	7-3/16	2-7/16	11/16	3/8	1/2	3/32	plastic-dipped	.29
D203-7C*	7-3/16	2-7/16	11/16	3/8	1/2	1/16	plastic-dipped	.29

Journeyman Series – Dual-material handles

J203-6	6-3/4	1-7/8	11/16	3/8	1/2	3/32	Journeyman	.30
J203-7	7-5/16	2-7/16	11/16	3/8	1/2	3/32	Journeyman	.33

Switchboard Work – Cleanly strips 19 & 22 AWG wire

D203-6H2	6-5/8	1-7/8	11/16	3/8	1/2	3/32	plastic-dipped	.26
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Crimps Tel-Splice connectors

D203-6CR	6-5/8	1-7/8	11/16	3/8	1/2	3/32	plastic-dipped	.26
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*Spring-Loaded action for self-opening

Heavy-Duty Long-Nose Pliers Side-Cutting

- Induction hardened cutting knives for long life.
- Heavier design for greater cutting power.
- Extended handles provide added reach and leverage.



Cat. No.	Overall Lgth (in)	Jaw Lgth. (in)	Jaw Width (in)	Jaw Thkns (in)	Knife Lgth. (in)	Point Thkns (in)	Handle Finish	Wght (lbs)
D203-8	8-7/16	2-5/16	1	1/2	5/8	1/8	plastic-dipped	.60

Journeyman Series – Dual-material handles

J203-8	8-9/16	2-5/16	1	1/2	5/8	1/8	Journeyman	.63
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Wire Stripping – Cleanly strips 12 AWG wire

D203-8N	8-7/16	2-5/16	1	3/8	5/8	1/8	plastic-dipped	.59
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Journeyman Series – Dual-material handles

J203-8N	8-9/16	2-5/16	1	3/8	5/8	1/8	Journeyman	.64
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Wire Stripping & Crimping – Cleanly strips 12 AWG wire; crimps connectors, lugs & terminals

D203-8NCR	8-7/16	2-5/16	1	3/8	5/8	1/8	plastic-dipped	.61
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Long-Nose Pliers – Long Reach, Rounded Nose

- Rounded nose design.
- Knurled jaws for sure wrapping and looping.
- Extended handles provide added reach and leverage.



Cat. No.	Overall Lgth (in)	Jaw Lgth. (in)	Jaw Width (in)	Jaw Thkns (in)	Point Thkns (in)	Handle Finish	Wght (lbs)
D314-8	8-1/8	1-15/16	11/16	3/8	3/32	plastic-dipped	.36

Long-Nose Pliers – Duck Bill

- Tapered head design for easy working in tight areas.
- Curved handles provide greater tool control.
- Flat nose; knurled jaws.



Cat. No.	Overall Lgth (in)	Jaw Lgth. (in)	Jaw Width (in)	Jaw Thkns (in)	Point Thkns (in)	Handle Finish	Wght (lbs)
Flat Nose, Knurled Jaws							
D305-6	7-1/16	2-5/16	11/16	3/8	5/16	plastic-dipped	.30
Rounded Nose, Smooth Jaws							
D304-6	7-1/16	2-5/16	11/16	3/8	3/8	plastic-dipped	.30

Hand Tools

Klein Tools

Midget Long-Nose Pliers – Slim Nose

- Lightweight, slim-nose pliers for precision subminiature assembly work.
- Knurled jaws for sure-wrapping and looping.
- Curved handles provide greater tool control.



D321-4-1/2

Cat. No.	Overall Lgth (in)	Jaw Lgth. (in)	Jaw Width (in)	Jaw Thkns (in)	Point Thkns (in)	Handle Finish	Wght (lbs)
Knurled Jaws – Sure-wrapping and looping							
D321-4-1/2	4-13/16	1-1/16	7/16	1/4	1/32 & 1/16	plastic-dipped	.13
D321-4-1/2C*	4-13/16	1-1/16	7/16	1/4	1/32 & 1/16	plastic-dipped	.14
Smooth Inside Jaws – Radiused jaw edges help prevent nicking wire							
D322-4-1/2C*	4-13/16	1-1/16	7/16	1/4	1/32 & 1/16	plastic-dipped	.14

*Spring-Loaded action for self-opening

Midget Curved Chain-Nose Pliers

- 60° bent nose for maximum work visibility in confined areas.
- Easily bends and forms fine wire.
- Polished inside jaws and radiused jaw edges prevent nicking wire.
- Spring-loaded for self-opening action.
- Curved handles provide greater tool control.



D320-4-1/2C

Cat. No.	Overall Lgth (in)	Jaw Lgth. (in)	Jaw Width (in)	Jaw Thkns (in)	Point Thkns (in)	Handle Finish	Wght (lbs)
D320-4-1/2C	4-3/4	1	13/32	1/4	1/16	plastic-dipped	.13

Midget Flat Long-Nose Pliers

- Jaw width tapers to narrow flat tip for sure gripping in confined areas.
- Polished inside jaws help prevent nicking wire.
- Spring-loaded for self-opening action.
- Curved handles provide greater tool control.



D323-4-1/2C

Cat. No.	Overall Lgth (in)	Jaw Lgth. (in)	Jaw Width (in)	Jaw Thkns (in)	Point Thkns (in)	Handle Finish	Wght (lbs)
D323-4-1/2C	4-13/16	1-1/16	7/16	1/4	1/8 & 1/16	plastic-dipped	.14

Slim Long-Nose Pliers

- Longer nose and handles for deeper reach into work.
- Spring-loaded for self-opening action.
- Curved handles provide greater tool control.



D307-5-1/2C

Cat. No.	Overall Lgth (in)	Jaw Lgth. (in)	Jaw Width (in)	Jaw Thkns (in)	Point Thkns (in)	Handle Finish	Wght (lbs)
Knurled Jaws – Sure-wrapping and looping							
D307-5-1/2	5-5/8	1-11/16	1/2	5/16	1/32	plastic-dipped	.15
Smooth Inside Jaws – Radiused jaw edges help prevent nicking wire							
D327-5-1/2C*	5-5/8	1-11/16	1/2	5-16	1/16	plastic-dipped	.16

Slim Long-Nose Pliers with Side Cutters

- Longer nose and handles for deeper reach into work.
- Spring-loaded action for self-opening.
- Curved handles provide greater tool control.
- Side Cutters and Knurled Jaws - Long-lasting cutting knives; sure-wrapping and looping.



D221-5-1/2C

Cat. No.	Overall Lgth (in)	Jaw Lgth. (in)	Jaw Width (in)	Jaw Thkns (in)	Point Thkns (in)	Handle Finish	Wght (lbs)
D221-5-1/2C	5-5/8	1-11/16	1/2	5/16	1/32	plastic-dipped	.15

Curved Long-Nose Pliers

- 70° bent nose for maximum work visibility in confined areas.
- Knurled jaws for sure wrapping and looping.
- Curved handles provide greater tool control.

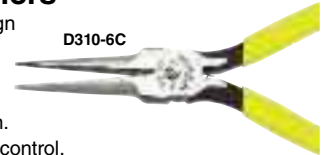


D302-6

Cat. No.	Overall Lgth (in)	Jaw Lgth. (in)	Jaw Width (in)	Jaw Thkns (in)	Point Thkns (in)	Handle Finish	Wght (lbs)
D302-6	6-3/8	1-1/2	11/16	3/8	3/32	plastic-dipped	.30

Tapered Long-Nose Pliers

- Larger and sturdier yet tapered design allows access into tight areas.
- Knurled jaws for sure wrapping and looping.
- Spring-loaded for self-opening action.
- Curved handles provide greater tool control.



D310-6C

Cat. No.	Overall Lgth (in)	Jaw Lgth. (in)	Jaw Width (in)	Jaw Thkns (in)	Point Thkns (in)	Handle Finish	Wght (lbs)
D310-6C	6-5/8	1-7/8	11/16	3/8	1/16	plastic-dipped	.27

Long Needle-Nose Pliers

- Designed for accurate work in hard-to-reach areas.
- Spring-loaded for self-opening action.
- Curved handles provide greater tool control.



D318-5-1/2C

Cat. No.	Overall Lgth (in)	Jaw Lgth. (in)	Jaw Width (in)	Jaw Thkns (in)	Point Thkns (in)	Handle Finish	Wght (lbs)
Knurled Jaws – Sure-wrapping and looping							
D318-5-1/2C	5-5/8	1-11/16	1/2	5/16	1/16	plastic-dipped	.13
Smooth Inside Jaws – Radiused jaw edges help prevent nicking wire edges							
D328-5-1/2C	5-5/8	1-11/16	1/2	5/16	1/16	plastic-dipped	.14

Long Needle-Nose Pliers – Extra Slim

- Long, narrow nose and slim hinge for extremely close quarter work.
- Finely knurled jaws grip thin wire without damaging it.
- Spring-loaded for self-opening action.
- Curved handles provide greater tool control.



D335-5-1/2C

Cat. No.	Overall Lgth (in)	Jaw Lgth. (in)	Jaw Width (in)	Jaw Thkns (in)	Point Thkns (in)	Handle Finish	Wght (lbs)
D335-5-1/2C	5-5/8	1-11/16	15/32	1/4	1/16	plastic-dipped	.13

Needle-Nose Pliers – Fatigue Reducing

- Handles minimize bending of wrist to reduce strain and fatigue.
- Knurled jaws for sure wrapping and looping.
- Spring-loaded for self-opening action.



D366-6C

Cat. No.	Overall Lgth (in)	Jaw Lgth. (in)	Jaw Width (in)	Jaw Thkns (in)	Point Thkns (in)	Handle Finish	Wght (lbs)
D366-6C	8	1-15/16	11/16	3/8	1/16	foam plastic	.38

Needle-Nose Pliers – Side-Cutting

- Extra length for added reach in confined areas.
- Knurled jaws for sure wrapping and looping.
- Spring-loaded for self-opening action.
- Curved handles provide greater tool control.



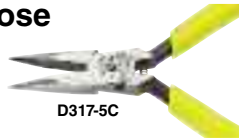
D203-6SCPC

Cat. No.	Overall Lgth (in)	Jaw Lgth. (in)	Jaw Width (in)	Jaw Thkns (in)	Point Thkns (in)	Handle Finish	Wght (lbs)
D203-6SCPC	6-5/8	1-7/8	11/16	3/8	1/16	plastic-dipped	.26

Klein Tools

Long-Nose Pliers – Chain Nose

- Knurled jaws for sure gripping, bending and forming of medium-gauge wire.
- Spring-loaded for self-opening action.
- Curved handles provide greater tool control.



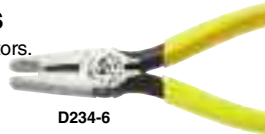
D317-5C

Cat. No.	Overall Lgth (in)	Jaw Lgth. (in)	Jaw Width (in)	Jaw Thkns (in)	Point Thkns (in)	Handle Finish	Wght (lbs)
D317-5C	5-1/16	1-1/8	1/2	5/16	1/16	plastic-dipped	.14

TELECOM/BELL-SYSTEM PLIERS

Connector Crimping Pliers

- Crimps and seats UG, UR, and UY connectors.
- Curved handles for greater control.
- Induction hardened side-cutting knives for long life.



D234-6

Cat. No.	Overall Lgth (in)	Jaw Lgth. (in)	Jaw Width (in)	Jaw Thkns (in)	Knife Lgth	Handle Finish	Wght (lbs)
Knurled Jaws – Sure-wrapping and looping							
D234-6	5-13/16	1-3/32	11/16	1/4	1/2	plastic-dipped	.25
D234-6C*	5-13/16	1-3/32	11/16	1/4	1/2	plastic-dipped	.25

*Spring-Loaded action for self-opening

Long-Nose Telephone Work Pliers Stripping

- Cleanly strips 22 to 24 AWG wire.
- Convenient insulation crushing slot.
- Curved handles provide greater tool control.



D2291

Cat. No.	Overall Lgth (in)	Jaw Lgth. (in)	Jaw Width (in)	Jaw Thkns (in)	Point Thkns (in)	Handle Finish	Wght (lbs)
D2291	6	1-1/4	11/16	3/8	1/16 & 3/32	plastic-dipped	.25

Long-Nose Telephone Work Pliers Narrow Tip with Single Cutter

- Single-cutting knife behind point provides precise tip cutting.
- Jaws knurled at tip for sure-wrapping and looping.
- Spring-loaded for self-opening action.
- Curved handles provide greater tool control.



D317-5C

Cat. No.	Overall Lgth (in)	Jaw Lgth. (in)	Jaw Width (in)	Jaw Thkns (in)	Point Thkns (in)	Handle Finish	Wght (lbs)
D317-6PC	6	1-1/4	11/16	3/8	1/16	plastic-dipped	.25

Long-Nose Telephone Work Pliers Type L1 & L2

- Knurled jaw tips for greater gripping power.
- Induction hardened side-cutting knives for long life.
- Convenient .030" stripping hole.
- Curved handles provide greater tool control.
- L2 has nose surface coating of aluminum-oxide dielectric material helps avoid accidental current transference. Will NOT protect against electrical shock.



71982

Cat. No.	Bell System Type	Overall Lgth (in)	Jaw Lgth. (in)	Jaw Width (in)	Jaw Thkns (in)	Point Thkns (in)	Handle Finish	Wght (lbs)
71980	L1	6-5/8	1-7/8	11/16	3/8	1/16 & 1/32	plastic-dipped	.25
71982	L2	6-5/8	1-7/8	11/16	3/8	1/16 & 1/32	plastic-dipped	.25

Diagonal Telephone Work Pliers Type D-6 & E-6

- Tapered nose for easy working in confined areas and close tip cutting.
- Convenient .030" and .045" stripping holes.
- "V" stripping notch in jaw for quick insulation slitting.
- Serrated behind the hinge to crush insulation.
- Type E-6 has nose surface coating of aluminum-oxide dielectric material that helps avoid accidental current transference. Will NOT protect against electrical shock.



72192

Cat. No.	Bell System Type	Overall Lgth (in)	Jaw Lgth. (in)	Jaw Width (in)	Jaw Thkns (in)	Cutting Knives	Handle Finish	Wght (lbs)
72192	D-6	6-1/8	13/16	3/4	7/16	standard	plastic-dipped	.33
72194	E-6	6-1/8	13/16	3/4	7/16	standard	plastic-dipped	.33

Long-Nose Telephone Work Pliers Type D & E

- Knurled jaw tips for greater gripping power.
- Nose surface coating of aluminum-oxide dielectric material helps avoid accidental current transference. Will NOT protect against electrical shock.
- Curved handles provide greater tool control.
- Type E has pressing groove near hinge for brass sleeves.



71974

Cat. No.	Bell System Type	Overall Lgth (in)	Jaw Lgth. (in)	Jaw Width (in)	Jaw Thkns (in)	Point Thickness	Handle Finish	Wght (lbs)
71974	D	6-5/8	1-7/8	11/16	3/8	3/32	plastic-dipped	.28
71976	E	6-5/8	1-7/8	11/16	3/8	3/32	plastic-dipped	.27

Short-Nose Telephone Work Pliers Type C

- Skins 22 or 24 gauge wire and crushes insulation in nose slot.
- Nose surface coating of aluminum-oxide dielectric material helps avoid accidental current transference. Will NOT protect against electrical shock.
- Curved handles provide greater tool control.



71990

Cat. No.	Bell System Type	Overall Lgth (in)	Jaw Lgth. (in)	Jaw Width (in)	Jaw Thkns (in)	Point Thickness	Handle Finish	Wght (lbs)
71990	C	6	1-1/4	11/16	3/8	1/16 & 3/32	plastic-dipped	.27

Long-Nose Telephone Work Pliers Type C

- Knurled jaw tips for greater gripping power.
- Curved handles provide greater tool control.
- Pressing groove near hinge for brass sleeves.



71972

Cat. No.	Bell System Type	Overall Lgth (in)	Jaw Lgth. (in)	Jaw Width (in)	Jaw Thkns (in)	Point Thickness	Handle Finish	Wght (lbs)
71972	C	6-5/8	1-7/8	11/16	3/8	3/32	plastic-dipped	.27

Long-Nose Telephone Work Pliers Type G

- For closing 700, 701, and 702 type connectors.
- Knurled jaw tips for greater gripping power.
- Pick located on the inside of one handle for breaking out the side wall of wire connectors.
- Curved handles provide greater tool control.



71978

Cat. No.	Bell System Type	Overall Lgth (in)	Jaw Lgth. (in)	Jaw Width (in)	Jaw Thkns (in)	Point Thickness	Handle Finish	Wght (lbs)
71978	C	6-5/8	1-7/8	11/16	3/8	3/32	plastic-dipped	.28

Hand Tools

Klein Tools

SPECIAL-PURPOSE PLIERS

Plastic Cutting Pliers

- Precisely cuts injection mold sprues, gates and other plastic.
- Adjustable 1/16" hollow-head screw keeps knife-edges from damaging each other (not designed for use on metal).
- Spring-loaded for self-opening action.



D227-7C

Cat. No.	Overall Lgth (in)	Jaw Lgth. (in)	Jaw Width (in)	Jaw Thkns (in)	Cutting Knives	Handle Finish	Wght (lbs)
D227-7C	7-11/16	1	31/32	1/2	flush	plastic-dipped	.55

Plastic Cutting Pliers

- Tightens 1/2" and 3/4" EMT or 1/2" rigid locknuts.
- Fits liquid tight fittings and caps.
- Reams and smooths both inside and outside of conduit.
- Knurled jaws at nose tip pull wire or fish tape.
- Machined nose fits snugly into locknut wings.



D333-8

Cat. No.	Overall Lgth (in)	Jaw Lgth. (in)	Jaw Width (in)	Jaw Thkns (in)	Cutting Knives	Point Thkns	Wght (lbs)
D333-8	7-3/4	1-5/8	15/16	1/2	flush	3/16	.55

SNAP RING PLIERS

Retaining-Ring Pliers

- Sturdy steel construction with corrosion-resistant black-oxide finish.
- Heat-treated tips for long-lasting life and secure gripping.



73237

Cat. No.	Overall Lgth (in)	Tip Size	Tip Angle	Housing I.D.	Handle Finish	Wght (lbs)
Internal Retaining-Ring – Deluxe style; spring-loaded action						
73237	5-9/16	.038	straight	.375 - 1.0	plastic-dipped	.16
73238	5-3/8	.038	45°	.375 - 1.0	plastic-dipped	.16
External Retaining-Ring – Deluxe style; spring-loaded action						
73242	5-11/16	.038	straight	1/4 - 7/8	plastic-dipped	.17

Retaining-Ring Pliers Interchangeable Tip Set

- Set contains deluxe style retaining-ring pliers and two each of these interchangeable tips: .038"/90°, .047"/straight, .047"/45°, .067"/straight.
- Pliers have spring-loaded action, sturdy steel construction, and corrosion-resistant black-oxide finish.



73249

Cat. No.	Style	Overall Lgth (in)	Handle Finish	Description	Wght (lbs)
73248	deluxe	6-1/4	plastic-dipped	contains 1 internal pliers with tip set	.20
73249	deluxe	6-1/4	plastic-dipped	contains 1 external pliers with tip set	.21
Replacement Tip Set					
73250	n/a	n/a	n/a	contains two each of: .038"/90°, .047"/straight, .047"/45°, .067"/straight	.02

SLIP-JOINT PLIERS

Slip-Joint Pliers

- Shear-type cutter for precision wire cutting.
- Two versatile jaw positions.
- Serrated jaws provide sure-gripping power.
- Nickel-chrome plated for long life.



D511-6

Cat. No.	Overall Lgth (in)	Jaw Lgth. (in)	Jaw Width (in)	Jaw Thkns (in)	Handle Finish	Wght (lbs)
D511-6	6-9/16	1-3/16	1-3/16	3/8	plastic-dipped	.39
D511-8	8-1/16	1-3/8	1-1/4	7/16	plastic-dipped	.62
511-10	9-3/4	1-3/4	1-3/8	15/32	plain	.81
D511-10	9-7/8	1-3/4	1-3/8	15/32	plastic-dipped	.83

Slip-Joint Pliers – Hose Clamp

- Quickly installs and removes spring-tension hose clamps.
- Grips with either end or side of jaws for work in confined areas.
- Nickel-chrome plated for long life.



D514-8

Cat. No.	Overall Lgth (in)	Jaw Lgth. (in)	Jaw Width (in)	Jaw Thkns (in)	Handle Finish	Wght (lbs)
D514-8	8-1/16	1-3/8	1-1/4	7/16	plastic-dipped	.61

Pump Pliers

- Secure tongue and groove design for non-slip grip – even with heavy pressure.
- Wide range of versatile jaw positions.



D502-6

Cat. No.	Overall Lgth (in)	Max Jaw Capacity	Handle Finish	Wght (lbs)
D502-6	6-1/2	7/8	plastic-dipped	.41
D502-10	10	1-3/4	plastic-dipped	.97
D502-12	12-1/4	2-3/8	plastic-dipped	1.37
D502-16	16-3/4	4-1/4	plastic-dipped	3.22
Journeyman Series – Dual-material handles				
J502-10	10-1/4	1-3/4	Journeyman	1.02

Klein Tools

SCISSORS

Electrician's Scissors

Designed for heavy-duty use. Strong, tough, tempered steel. Nickel-plated finish. Scraper and file on outside of both blades.

Cat. No.	Overall Lgth. (in)
2100-5	5



Electrician's Scissors with Stripping Notches

Similar to No. 2100-5, but with lower blade serrated to minimize slippage of wire when cutting. Upper blade has notches for stripping 19- and 23-gauge wire. Rounded points.

Cat. No.	Overall Lgth. (in)
2100-7	5



Dual NM Cable Stripper/Cutter

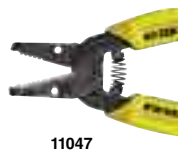
- Quickly remove outer jacket of Type NM-B non-metallic-sheathed cable.
- Stripping holes easily remove insulation on 12 and 14 AWG lead wire.
- Precision staggered blades for square, clean cuts on solid copper wire.
- Narrow nose fits into tight places.
- Precision shear-type blades for square, clean cuts on solid copper wire.
- Curved handles help reach into confined areas.
- Strong-gripping serrated nose; for easy bending, shaping and pulling of wire.
- Wire looping and bending holes.
- Screw-shearing holes.
- Coil spring provides fast self-opening action.
- Handy closure lock for convenient storage.



Cat. No.	Type NM-B Cable	AWG Solid Wire Gauges	Handle Color	Length (in)
K1412	12/2 & 14/2	No. 12 & 14	Yellow	7-7/10

Combination Wire-Stripping & Cutting Tools

- Compact, lightweight wire-stripping and cutting tool.
- Narrow nose fits into tight places.
- Hardened steel with precision ground stripping holes.
- Do not use for cutting steel wire or bolts.
- Spring-loaded action for self-opening.
- Precision-ground stripping holes for easy removal of insulation.
- Easy-to-read wire gauge markings on both sides for stripping in either direction.
- Black-oxide finish resists corrosion.
- Color-coded handles: red indicates stranded wire, yellow indicates solid wire.
- Textured handles provide a firm, comfortable grip.
- Wire looping and bending holes.



Cat. No.	Handle Color	Strips AWG Gauges
11045	Yellow	No. 10, 12, 14, 16, 18 solid wire
11046	Red	No. 16, 18, 20, 22, 24, 26 stranded wire
11047	Yellow	No. 22, 24, 26, 28, 30 solid wire

Multi-Purpose Wire Stripper-Cutter

- Strips six standard wire sizes without nicking wire.
- Scissor action of 1/2" wide cutter makes clean cuts with little effort.
- Serrated nose jaws to bend, shape, or pull wire; holes for looping wire ends.
- Spring-loaded for self-opening action.
- Comfortable, plastic-covered handles.

Cat. No.	Length (in)
1011	6-1/8



Wire Stripper-Cutter

- A handy, light, compact tool for stripping insulation.
- Convenient hole for looping or bending wire.
- Black-oxide finish with plastic-dipped handles.
- Cuts, strips, and loops 12-26 solid and stranded wire.
- Adjustable slide stop with set screw for repeat stripping work.

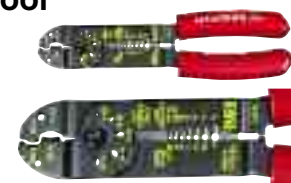
Cat. No.	Length (in)
1004 (with spring)	5
1003 (without spring)	5



Multi-Purpose 6-in-One Tool

- Cleanly shears bolts.
- Easily cuts and strips wire, 10-22 AWG.
- Measures stud sizes.
- Gauges wire sizes.
- Crimps insulated terminals.
- Plastic-covered cushioned handles for comfort.
- Cuts bolt sizes 10-24, 10-32, 8-32, 6-32 and 4-40.

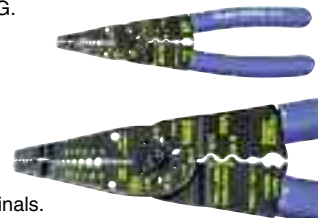
Cat. No.	Length (in)
1000	7-3/4



Long-Nose Multi-Purpose Tool

- Easily cuts and strips wire, 10-22 AWG.
- Narrow, serrated plier nose to pull, loop and bend wire.
- Long, curved cutting blade.
- Cutters and strippers are in front of the pivot for maximum ease-of-use in reaching into tight places.
- Crimps insulated and non-insulated terminals and 7 to 8 mm ignition terminals.
- Cleanly shears bolts.
- Plastic-covered cushioned handles for comfort.
- Cuts bolt sizes 10-24, 10-32, 8-32, 6-32, 5-40 and 4-40.

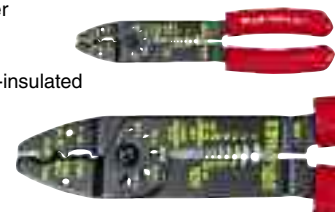
Cat. No.	Length (in)
1010	8-1/4



All-Purpose Electrician's Tool

- Two wire cutters, one at tip, the other halfway back near stripping holes, double the utility of this tool.
- Crimps 7 - 8 mm insulated and non-insulated terminals, lugs and splices.
- Cuts and strips 8-22 AWG solid and 10 - 26 AWG stranded wire.
- Cleanly shears bolts.
- Pivot nut adjusts tension.
- Left- and right-hand wire-looping holes near tip.
- Wire cutter in nose and below pivot.
- Crimping dies color-coded for easy identification.

Cat. No.	Length (in)
1001	8-1/2



Hand Tools

Klein Tools

CRIMPING TOOLS

Crimping Tool

For non-insulated terminals and connectors.

- Designed for crimping non-insulated solderless terminals and connectors.
- Specially hardened wire cutter in nose.
- Tapered nose for working in confined spaces.
- Plastic-dipped cushioned handles for comfort.



Cat. No.	Length (in)
1006	9-3/4

Crimping Tool

For insulated and non-insulated terminals and connectors.

- Accommodates wire from No. 10 to 22 AWG.
- Specially hardened wire cutter in nose.
- Tapered nose design for working in confined spaces.
- Crimping die marked for insulated and non-insulated solderless terminals and connectors.
- Plastic-dipped, cushioned handles for comfort.
- Hot-riveted joint for smooth action and no handle wobble.



Cat. No.	Length (in)
1005	9-3/4

Compound-Action Ratcheting Crimper

- Compound-action tool crimps 10-22 AWG insulated terminals to meet or exceed MIL-SPEC pull-out tests.
- Built-in ratchet with safety release assures uniform crimps every time.
- Compound lever-action of narrow-span handles puts more crimping power into each squeeze.
- Special locator quickly positions terminal for double crimp.
- Comfort-grip plastic handles.



Cat. No.	Description
T1710	Compound-action crimper for 22-10 AWG insulated terminals.

Cable Preparation Tools

- Cuts, slits, and removes insulation from a variety of cables.
- Ideal for use in confined spaces.
- Adjusts to perfect circumferential cuts for the cable size.
- Integral steel splitter slits insulation between cuts without nicking the cable.
- Built-in grippers make removing the separated insulation easy.



Cat. No.	Length (in)	Accepts Wire Sizes
74501	9-1/4	No. 4 to 4/0 ACSR or Copper
74502	10-37/64	No. 3/0 to 350 MCM ACSR or Copper
74503	10-37/64	500 MCM to 750 MCM ACSR or Copper
74504	9-13/32	No. 1/0 to 2/0 (primary or secondary cable)
74505	Same as 74502 with stripping holes. No. 1 hole-No. 1/0 and 2/0 ACSR or Copper No. 2 hole-No. 3/0 and 4/0 ACSR or Copper	

*General purpose stripper No. 74504 requires parallel slitting with a knife.

CABLE CUTTERS

High-Leverage Cable Cutter

- High-leverage design for exceptional cutting capability.
- Precision, one-hand shearing action.
- Cable-gripping shear-type jaws.
- Perfect for working in confined spaces.
- Can be carried in most tool pouches.
- Hot-riveted joint ensures smooth action and no handle wobble.
- Beveled jaw tips provide proper mating and shearing action, which protects leading jaw edges.
- Through-hardened (not case-hardened) for longer-lasting cutting surfaces.



Cat. No.	Length (in)
63050	9-1/2

Compact Cable Cutter

- Precise, one-hand shearing action cuts 24 AWG copper, aluminum multi-strand cable and wire, and 100-pair telephone cable.
- Special shear angle cuts cleanly without compression to cable geometry for telecom cable work.
- Heat-treated, high-carbon steel shearing edges for long life.
- Forged body with 3/8" case-hardened rivet.
- Plastic-dipped handles for comfort.
- Not designed for cutting steel or ACSR.



Cat. No.	Length (in)
63055	8

All-Purpose Shears and BX Cutter

- High-leverage; shear-type design for one-hand operation.
- Lightweight, compact.
- Stripping notch for added convenience.
- Cuts a variety of materials including cable, sheet metal, steel strapping, and bundling wire.
- Handle cavity is designed to restore BX cable to original shape after cutting.
- Plastic-dipped handles for comfort.



Cat. No.	Length (in)
1104	7-5/8

Heavy-Duty Cable Shears

- Heavy-duty, tempered steel blades.
- Blades grip cable and cut easily at center of jaws.
- Lock keeps handles closed for easy storage.
- Comfortable, plastic-coated handles for steady grip.
- Hardened steel, precision cutting blades for long service life.
- Unique triangular jaws cleanly cut cable without compression or frayed ends.
- Lightweight tool perfect for overhead cutting.
- Cuts up to 1/4" copper and mild steel strands, up to 3/16" aircraft cable, wire rope, aluminum and copper rods, up to 5/32" for steel and iron rods.



Cat. No.	Length (in)
63016	7-1/2

Heavy-Duty Cable Shears

- High leverage ratchet mechanism for single-handed cutting of copper and aluminum cables, leaving no burrs or sharp edges.
- Patented two-step ratchet mechanism requires fewer strokes per cut.
- Quick release opens blades easily in every cutting position.
- Precision ratcheting mechanism holds cable tight and allows rapid, straight cuts with minimum effort.
- Hardened steel cutting blades for lasting strength and sharpness.
- Plastic covered handles with hand guards for comfort and firm grip.
- Locking lever keeps handles closed for easy transport, to fit in tool box or bag.



Cat. No.	Length (in)	MCM Maximum Cable Capacity	
		Copper	Aluminum
63600	10	Max: 600 MCM	Max: 600 MCM
63750	12-1/8	Max: 1000 MCM Frequent Use: 750 MCM	Max: 1000 MCM Frequent Use: 750 MCM

Klein Tools

Utility Cable Cutter

- Forged steel with black-oxide finish for long life.
- Shear-type hook jaws grab and hold cable while shear-cutting action makes clean cuts.
- Beveled tips for positive mating.
- Hinge bolt with pin-set nut for proper blade tension.
- Non-slip vinyl grips.
- Not designed for cutting steel or ACSR.
- Maximum cable cutting 350 MCM copper and aluminum.



Cat. No.	Length (in)	MCM Cable Cutting Cap.
63035	16-3/4	350 Copper, 350 Aluminum

Standard Cable Cutters

- Lightweight, yet efficient shear-type cable cutters.
- Replaceable hook-jaw blades grab and hold cable while shear-cutting action makes clean cuts.
- Exceptionally strong fiberglass handles with heavy vinyl grips for comfort and slip resistance.
- Heavy-duty pins in head serve as blade-stops.
- Jaws are forged tool steel with black-oxide finish for long life.
- Beveled tips assure positive mating, and hinge on a rugged bolt with a pin-set nut to maintain proper blade tension.
- Make a clean, even cut for ease in fitting lugs and terminals.
- Not designed for cutting steel or ACSR.



Cat. No.	Overall Length	Soft Cable-Cutting	MCM Cable-Cutting Maximum Capacity	Weight (lbs)
63041	25-1/2"	1-3/8" diameter	500 Copper, 750 Aluminum	5.25
63045	32"	1-3/4" diameter	1000 Copper, 1200 Aluminum	8.0
Replacement Cable Cutter Heads (complete)				
63081		Fits Klein Cat. No. 63041		2.05
63090		Fits Klein Cat. No. 63045		3.30

Heavy-Duty Ratcheting Cutter

- Ratchet-action design provides maximum leverage with minimum effort for heavy-duty use.
- Cuts steel and ACSR.
- Forged, heat-treated, shear-type blades, plus a 24" long steel handles with heavy vinyl grips for comfort and slip-resistance.
- Blade-advance knob for fast rotation of the blade to engage the cable or other material being cut, plus a quick-release mechanism allows for removal of the cable or rod before completion of the cut, if desired.
- Not designed for cutting EHS Guy Strand or reinforcement rod.



Cat. No.	Overall Length	Soft Cable-Cutting	Communication Cable Cutting Capacity	Weight (lbs)
63700	36"	2-1/4" dia	1-1/4" dia. ACSR, ACAR; 7/16" dia. common guy strand; 5/8" dia. steel wire rope; 1/2" dia. steel rod (C.R.S. SOFT); 750 MCM (1-3/8" dia.) copper or aluminum	14

TEST AND MEASUREMENT TOOLS

Professional Series Multimeters

- Solid construction and rugged rubber boots.
- Data hold feature saves measurement for later viewing.
- Additional Features for Cat. Nos. MM1000, MM2000**
- Bar graph responds quickly to changes in measurement.
- Max / Min / Relative reading for quick troubleshooting in the field.



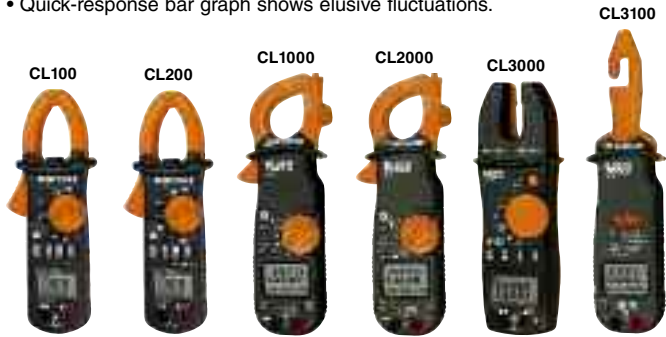
Measurement	MM100 Manual Ranging Multimeter	MM200 Auto Ranging Multimeter	MM1000 Electrician's HVAC Multimeter	MM2000 Electrician's HVAC TRMS Multimeter
AC Current	—	10A	10A	10A
DC Current	10A	10A	10A	10A
AC Voltage	600V	600V	1000V	1000V
DC Voltage	600V	600V	1000V	1000V
Resistance	2MΩ	40MΩ	40MΩ	40MΩ
Micro Amps	—	≥0.1μA	≥0.1μA	≥0.1μA
Capacitance	—	200μF	4000μF	4000μF
Temperature	—	-4~1832°F	-58~1832°F	-58~1832°F
Frequency/Duty Cycle	—	1MHz	1MHz	1MHz
Diode Test	•	•	•	•
Continuity	•	•	•	•
Battery Test	•	—	—	—
Features				
LCD Counts	2000	4000	4000	4000
Data Hold	•	•	•	•
Manual Range	•	—	•	•
Auto Range	—	•	•	•
Auto Power Off	—	•	•	•
Backlight	—	•	•	•
Max/Min Hold	—	—	•	•
Relative Reading	—	—	•	•
Bar Graph	—	—	•	•
Magnetic Hanger Compatible	—	—	•	•
True RMS	—	—	—	•
Low Impedance	—	—	—	•
Listing				
CAT Rating	CAT III 600V	CAT III 600V	CAT IV 600V	CAT IV 600V
Batteries	1 x 9V	1 x 9V	2 x AAA	2 x AAA
Height	5.75"	5.75"	7.0"	7.0"
Width	2.75"	2.75"	3.50"	3.50"
Depth	1.75"	1.75"	1.875"	1.875"
Weight	8.0	8.2	14.0	14.0

Hand Tools

Klein Tools

Professional Series Clamp Meters

- Large jaw sizes.
 - Worklights illuminated dark work spaces.
 - Data hold captures measurements in any situation.
- Additional Features for Cat. Nos. CL1000, CL2000, CL3100**
- Built-in magnetic mount for hands-free convenience.
 - Quick-response bar graph shows elusive fluctuations.



	CL100 600A AC Clamp Meter	CL200 600A AC Clamp Meter w/Temp	CL1000 400A AC Clamp Meter	CL2000 400A AC/DC TRMS Clamp Meter	CL3000 200A AC Fork Meter	CL3100 200A AC Hook Meter
Measurement	600A AC Clamp Meter	600A AC Clamp Meter w/Temp	400A AC Clamp Meter	400A AC/DC TRMS Clamp Meter	200A AC Fork Meter	200A AC Hook Meter
AC Current	600A	600A	400A	400A	200A	200A
DC Current	—	—	—	400A	—	—
AC Voltage	600V	600V	750V	750V	750V	750V
DC Voltage	600V	600V	1000V	1000V	1000V	1000V
Resistance	20MΩ	40MΩ	40MΩ	40MΩ	40MΩ	40MΩ
Micro Amps	—	—	0.1~2000μA	0.1~2000μA	—	—
Capacitance	—	100μF	4000μF	4000μF	40μF	—
Temperature	—	-4-1832°F	—	—	—	—
Frequency/ Duty Cycle	—	100kHz	1MHz	1MHz	100kHz	—
Diode Test	•	•	•	•	•	—
Continuity	•	•	•	•	•	•
Non Contact Voltage	—	—	•	•	—	—
Features						
LCD Counts	2000	4000	4000	4000	4000	4000
Data Hold	•	•	•	•	•	—
Auto/Manual Range	•	•	•	•	•	•
Auto Power Off	•	•	•	•	•	—
Backlight	•	•	•	•	•	•
Worklight	•	•	•	•	•	•
Max Hold	•	—	•	•	—	•
Min Hold	—	—	•	•	—	•
Relative Reading	—	—	—	•	—	•
Bar Graph	—	—	•	•	—	•
Magnetic Mount	—	—	•	•	—	•
True RMS	—	—	—	•	—	—
Listing						
CAT Rating	CAT III 600V	CAT III 600V	CAT III 600V	CAT III 600V	CAT III 600V	CAT III 600V
Batteries	3 x AAA	3 x AAA	2 x AAA	2 x AAA	1 x 9V	2 x AAA
Height	8.2	8.2	8.875	8.875	7.50	10.25
Width	3.0	3.0	3.375	3.375	2.70	2.50
Depth	1.4	1.4	1.5	1.5	1.7	1.5
Weight	9.9	10.0	10.7	10.7	7.4	8.6
Jaw Size	1.0	1.0	1.25	1.25	.5	.5

Electronic Voltage Testers

- Solid state design is safer than solenoid testers.
 - Low impedance to reduce false readings.
 - Indicates voltage without battery.
 - Voltage indicated by lights, vibration and tone.
- Additional Features in ET200**
- Continuity beeper and bright work light.



Cat. No.	Cat Rating	Listing	Batteries	Overall Length	Weight
ET100 & ET200	CAT IV 600V		3 x AAA	7.375"	8.1 oz

Digital Circuit Breaker Finder

- Quickly, accurately, and automatically find the corresponding circuit breaker of any 120V standard outlet.
- Flashing arrow indicator for easy identification.
- Strong transmitter reaches distances up to 1,000 feet.
- 90 - 120V operation.
- Microprocessor controlled for more reliable identification.
- Auto power-off feature saves battery life.
- Does not require interruption of service; power can be left on.



Cat. No.	Listing	Batteries	Overall Length	Weight
ET300		1 x 9V	6"	3.2 oz

Non-Contact Voltage Tester

- Non-contact detection of voltage in cables, cords, circuit breakers, lighting fixtures, switches, outlets, and wires.
- High intensity, bright green LED indicates the tester is operational and aids in illuminating the workspace.
- When voltage is detected, a high intensity, bright red LED illuminates and a warning tone sounds.
- Discrete digitally controlled ON/OFF power button.
- Auto power-off feature conserves and extends battery life.
- Microprocessor controlled low-battery indicator and tester shutdown.
- CAT IV 1000 Volt rating provides expanded operation and protection.
- 50 to 1000 Volt AC power operating range allows broad application.
- Durable polycarbonate plastic resin construction.
- Lightweight compact design with a convenient clip to fit securely in your pocket.



ELECTRICAL TESTER

Circuit Tester

- Tests circuits rated from 80 to 600 volts AC/DC.
- High-visibility neon lamp indicator.
- High-impact, sealed 5-11/16" probes on long 24" leads for convenience in testing motors, fuses, relays, switches, etc.
- Resistor between each probe and lead.
- Reliable electronic components.



Cat. No.	Overall Length w/Prods (in)
69105	35

Klein Tools

Continuity Tester

- Battery-powered tester quickly checks continuity of dead circuits, switches, appliances, cords, fuses, motors, control equipment, coils, and panel boards.
- Also tests circuits for low-resistance shorts and helps identify wires in multi-wire cables.
- Spring-steel pocket clip serves as test probe.
- 36" lead with plug on one end, alligator clip on the other.
- Body is copper-nickel-plated brass with plug receptacle in one end, incandescent bulb in the other.
- Can also be used as a flashlight.



Cat. No.	Overall Length Prod to Clip (in)
69110	45

Do not use on live electrical circuits

Continuity Tester

- Quickly reveals shorts or broken circuits in all types of electrical devices and controls.
- Tests for continuity of circuit with power off.
- Bulb in handle glows when circuit is complete (bulb included).
- Pointed 3-3/4" probe gets right to the problem.
- Deluxe 4" long handle with removable nylon cap holds replaceable bulb and battery.
- 36" test lead with alligator clip.



Do not use on live electrical circuits

Cat. No.	Description
69133	Continuity tester complete with bulb, less battery. Overall length prod to clip, 43-3/4".
69131	Replacement bulb for Cat. No. 69133.

Low-Voltage Tester

- Device for checking live 6-24V, AC or DC circuits.
- Tests for shorts in automotive and truck electrical systems, motor field coils, radio and low-voltage circuits, ground circuit of all lamps, wiring, fuses, etc.
- Bulb in handle glows when circuit is complete (bulb included).
- Pointed 3-3/4" probe makes checking easier.
- Deluxe 3.5" long handle with nylon top holds replaceable bulb.
- 36" test lead with alligator clip.



Cat. No.	Description
69127	Voltage tester complete with bulb. Overall length prod to clip, 43-3/4"
69130	Replacement bulb for Cat. No. 69127

Low-Voltage Twin-Lead Tester

- Tests 5-50 volt, AC or DC circuits and components.
- Built-in lamp glows if circuit is live.
- Each of the 4-1/2" test leads has an alligator clip on the end.
- Handy pocket clip.



Cat. No.	Description
69134	Low-Voltage twin-lead tester, Overall length 8"

Multi-Volt Twin-Lead Tester

- Tests for DC polarity, frequency, and polyphase line.
- Checks and indicates voltage on circuits up to 460 volts, AC or DC.
- Combination of glow lamps indicate voltage being tested—110, 220, 277, or 460 volts.
- Test leads furnished with probes on the ends.



Cat. No.	Description
69135	Multi-volt twin-lead tester, Overall Length 7-7/8"

General Purpose Twin-Lead Tester

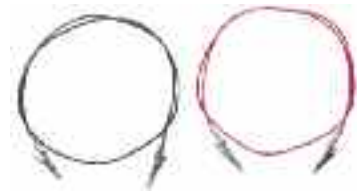
- Tests voltage in 90-250 volt range, AC or DC.
- Neon lamp glows indicating live circuit.
- The 5" test leads have probes on the ends.
- Handy pocket clip.



Cat. No.	Description
69136	General purpose twin-lead tester, Overall Length 7-7/8"
69132-12	12 No. 69136 testers in plastic display tray

Test Lead Set

- Set of two 32" leads.
- Red and black.
- Each lead has alligator clips attached to both ends.



Cat. No.	Description
69128	Test lead set, Overall Length 32"

LINEMAN'S WRENCHES

Standard Type

- Forged from special bar steel and heat-treated for long life.
- Each end has two different size openings.
- Hole is provided at larger end for turning-in standard pole steps.
- Wrench is suited for use on the heavy three-bolt guy clamps on which clearance is limited.
- Dark blue painted finish.



Cat. No.	Description
3146	For 5/8" hardware. Large end has 1-3/32" and 29/32" openings. Small end has 13/16" and 5/8" openings.
3146A	For 3/4" hardware. Large end has 1-1/16" and 1-5/16" openings. Small end has 5/8" and 7/8" openings.

Bell System Type

- Wrench for telecom/datacom applications.
- Similar to standard lineman's wrench, but with end openings sized to NEMA hardware specifications.
- Silver painted finish.



Cat. No.	Description
3146B	Large end has 1-1/16" and 1-3/16" openings. Small end has 11/16" and 7/8" openings.

Adjustable-Head Construction Wrench

- Precision-machined jaws are individually chosen and assembled by hand for smooth operation.
- Knurl turns smoothly for easy operation.
- Versatile wrench fits all nuts and bolts to 1-1/2".
- Forged from select alloy steel with continuous-taper handle for aligning bolt and/or rivet holes.
- Industrial black finish for corrosion resistance.

Cat. No.	Max. Size Cap. (in)	Length (in)
3239	1-1/2	15



1/2" Drive Ratcheting Construction Wrench

- Accepts 1/2" square-drive hex socket.
- Reversible ratchet.
- Eliminates the need for carrying several fixed-size wrenches.
- Forged from select alloy steel with continuous-taper handle for aligning bolt holes.
- Industrial black finish for corrosion resistance.

Cat. No.	Overall Lgth. (in)
3238	15

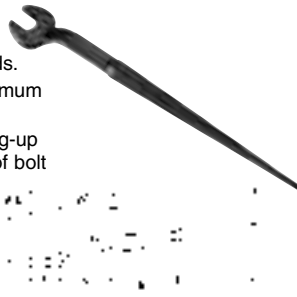


Hand Tools

Klein Tools

Erection Wrenches

- Forged from select alloy steel to withstand high-leverage and heavy loads.
- Extra-heavy-duty head area gives maximum strength and durability.
- Continuous taper of handle makes lining-up bolt holes easy and works on a range of bolt and/or hole sizes without binding.
- Extra-large hub area works on larger diameter holes than other wrenches.
- Catalog number, bolt size and nominal opening size are stamped on every wrench for easy identification.
- American Bridge design.



A - Bolt Size/Nominal Opening
B - Head Width, C - Overall Length

Cat. No.	Nut Type	Bolt Size (in)	Nom. Opening (in)	Head Width (in)	Taper Diameter (in)	Overall Length (in)	Weight (lbs)
3210	U.S. Heavy	1/2	7/8	2-1/4	7/8 to 3/16	14-3/4	1.36
3211	U.S. Heavy	5/8	1-1/16	2-1/4	7/8 to 3/16	14-3/4	1.31
3212	U.S. Heavy	3/4	1-1/4	2-1/2	1 to 1/4	16-5/8	1.98
3213	U.S. Heavy	7/8	1-7/16	3	1-1/8 to 9/32	17-3/8	2.72
3214	U.S. Heavy	1	1-5/8	3-5/8	1-18 to 1-1/4	18	3.36
3219	U.S.Regular	1/2	3/4	2-1/4	7/8 to 3/16	14-3/4	1.36
3220	U.S.Regular	1/2	13/16	2-1/4	7/8 to 3/16	14-3/4	1.35
3221	U.S.Regular	5/8	1	2-1/4	7/8 to 3/16	14-3/4	1.31
3222	U.S.Regular	3/4	1-1/8	2-1/2	1 to 1/4	18	3.37
3223	U.S.Regular	7/8	1-5/16	3	1-1/8 to 9/32	17-3/8	2.87
3224	U.S.Regular	1	1-1/2	3-5/8	1-1/8 to 1/4	18	3.37
3231	Utility	5/8	15/16	2-1/4	7/8 to 3/16	14-3/4	1.31
3232	Utility	3/4	1-1/16	2-1/2	1 to 1/4	16-5/8	2.00

Grip-It Strap Wrenches

- Completely adjustable strap wrench.
- Works in the tightest quarters.
- Urethane-covered, high-strength belting attached to lightweight, I-beam handle.
- Patented, cam-action design permits uniform, high-torque application.
- Under normal conditions, will not scratch, damage or deform polished pipe and fittings, plastic pipe and fittings, oil and water filters, glass pipe, PVC conduit, and polished shafts.
- Also works on alternator belts, flywheels, and propeller assemblies.

Cat. No.	Handle Length (in)	Dia. Cap. O.D. (in)
S6H	6	1-1/2 - 5
S12H	12	1-1/2 - 5
S18H	18	1-1/8 - 8



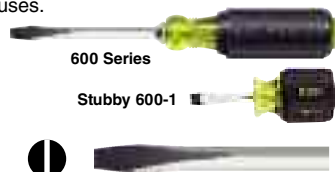
CUSHION GRIP SCREWDRIVERS

- Cushion-Grip handle allows for greater torque and comfort.
- Patented Tip-Ident® quickly identifies the type of screwdriver and screwdriver tip orientation.
- Premium chrome plated for smooth feel and corrosion resistance.
- Internal flanges inside handle provide solid, twist-resistant blade anchor.
- Special heat-treated shafts.
- Precision-machined tip for exact fit.
- Meets or exceeds applicable ASME / ANSI specifications.

Heavy-Duty Square-Shank, Keystone-Tip

- Heavy-duty square shank for wrench-assisted turning.
- Bolster reinforces shank for hard use.
- Designed for the most demanding uses.

Cat. No.	Shank Tip Width (in)	Shank Length (in)	Overall Length (in)
600-1	1/4	1-1/2	3-7/16
600-4	1/4	4	8-11/32
600-6	5/16	6	10-15/16
600-8	3/8	8	13-7/16
600-12	1/2	12	17-7/16



Round-Shank, Cabinet Tip

- Narrow cabinet tip permits blade access where space is limited.

Cat. No.	Shank Tip Width (in)	Shank Length (in)	Overall Length (in)
601-3	3/16	3	6-3/4
601-4	3/16	4	7-3/4
601-6	3/16	6	9-3/4
601-8	3/16	8	11-3/4
601-10	3/16	10	13-3/4



Heavy-Duty Round-Shank, Keystone-Tip

- Built to handle the tough jobs with ease.
- Hex bolster reinforces shank for hard use and allows wrench assisted turning.

Cat. No.	Shank Tip Width (in)	Shank Length (in)	Overall Length (in)
602-3	7/32	3	6-3/4
602-4	1/4	4	8-11/32
602-6	5/16	6	10-15/16
602-8	3/8	8	13-7/16
602-10	3/8	10	15-7/16
602-12	3/8	12	17-7/16



Round-Shank, Profilated® Phillips-Tip

- Tip is precision-machined to provide a more consistent geometric symmetry than conventional Phillips-tip screwdrivers.
- Provides accurate fit and torque without slippage.

Cat. No.	Point Size (in)	Shank Length (in)	Overall Length (in)
603-1	No.2	1-1/2	3-7/16
603-3	No.1	3	6-3/4
603-4	No.2	4	8-5/16
603-6	No.3	6	11
603-7	No.2	7	11-5/16
603-10	No.2	10	14-5/16



Heavy-Duty Round-Shank, Cabinet Tip

- Plastic coated for circuit protection only. NOT INSULATED.
- Special plastic coating resists cutting, cracking, and chipping.
- Thin coating permits use in confined areas.

Cat. No.	Shank Tip Width (in)	Shank Length (in)	Overall Length (in)
Heavy-Duty Plastic-Coated Screwdrivers			
620-3	3/16	2-3/4	6-1/2
620-4	1/4	3-3/4	8-3/32
620-6	5/16	5-3/4	10-11/16
620-8	3/8	7-3/4	13-3/16
Regular Plastic-Coated Screwdrivers			
621-6	3/16	5-3/4	9-1/2
621-8	3/16	7-3/4	11-1/2
621-10	3/16	9-3/4	13-1/2

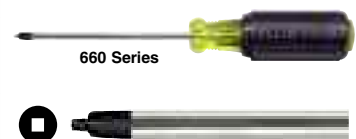


WARNING: Plastic-dipped blades, shanks, or other tool parts are NOT intended for protection against electrical shock.

Round-Shank, Square-Recess Tip

- Color-coded handle end for quick and easy identification.
- Round shank with square recess tip for square-recess screws.
- Chrome plated shaft for corrosion resistance.

Cat. No.	Point Size	Color Code	Overall Length (in)
4 inch Shank			
660	No.0	yellow	7-3/4
661	No.1	green	7-3/4
662	No.2	red	8-1/4
663	No.3	black	8-1/4
8 inch Shank			
665	No.1	green	11-3/4
666	No.2	red	12-1/4
667	No.3	black	12-1/4



Klein Tools

Round-Shank, Torx® Tip

- TORX® tip drive cuts slippage, saves fasteners, transmits more torque to the work.
- Color coded handle end for quick and easy identification.

Cat. No	Torx® Size	Color Code	Shank Length (in)	Overall Length (in)
19542	T15	yellow	4	8-5/16
19543	T20	green	4	8-5/16
19544	T25	blue	4	8-5/16
19545	T27	brown	4	8-5/16
19546	T30	red	4	8-5/16



Conduit-Fitting and Reaming Screwdriver

- Hooded-blade design keeps tip from slipping out of screws, especially when tightening hard-to-reach conduit fittings. Thicker hood is designed for rugged use.
- Reams and smooths 1/2", 3/4", and 1" thin-wall conduit ends to protect wire and permit correct installation of fittings.
- Reams both the inside and outside of the conduit at the same time.
- Longer Cushion-Grip handle provides comfort and more torque for reaming.
- Replaceable reaming blade is now held in place with a 1/16" hex socket set screw.

Cat. No	Shank Tip Width (in)	Shank Length (in)	Overall Length (in)
85191	5/16	2-1/2	7-1/2
19353	conduit reamer replacement blade kit		



Rapi-Drive® Screwdrivers

- Crank-action handle spins screws fast with one hand.
- Saves time and effort, especially on long-threaded screws in switch plates, light fixtures, etc.

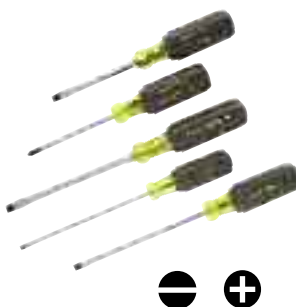
Cat. No	Shank Tip Width (in)	Shank Length (in)	Overall Length (in)
Cabinet-Tip Screwdrivers			
670-3	3/16	4	7-3/4
670-6	3/16	6	9-3/4
671-6	1/4	6	9-3/4
Phillips-Tip Screwdrivers			
681-6	No.1	6	9-3/4
682-6	No.2	6	9-3/4
Square-Recess Screwdrivers			
691-6	No.1	6	9-3/4
692-6	No.2	6	9-3/4



5-Piece Cushion-Grip Screwdriver Set

- General-purpose selection of the most frequently used screwdrivers.
- Includes two cabinet-tip, one phillips-tip, and two keystone-tip screwdrivers.

Cat. No. 85075 - Set Contains			
Cat. No.	Description	Blade Length (in)	Overall Length (in)
600-4	square-shank, keystone tip*	4	8-11/32
601-6	round-shank, cabinet-tip	6	9-3/4
602-6	round-shank, keystone-tip*	6	10-15/16
603-4	round-shank, No.2 phillips-tip	4	8-5/16
605-6	round-shank, cabinet tip*	6	10-11/32

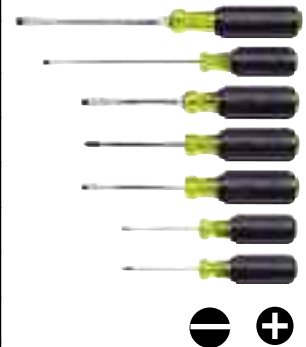


*Heavy-duty models

7-Piece Cushion-Grip Screwdriver Set

- General-purpose selection of the most frequently used screwdrivers.
- Includes: three cabinet-tip, two Phillips-tip and two keystone-tip styles.

Cat. No. 85076 - Set Contains			
Cat. No.	Description	Blade Length (in)	Overall Length (in)
600-4	square-shank, keystone tip*	4	8-11/32
602-6	round-shank, keystone-tip*	6	10-15/16
601-3	round-shank, cabinet-tip	3	6-3/4
601-6	round-shank, cabinet-tip	6	9-3/4
605-4	round-shank, cabinet-tip*	4	8-11/32
603-3	round-shank, No.1 Phillips-tip	3	6-3/4
603-4	round-shank, No.2 Phillips-tip	4	8-5/16



*Heavy-duty models

7-Piece Cushion-Grip Screwdriver Set

- Specialty set for a wide variety of applications.
- Includes, two cabinet-tip, one Phillips-tip, and two keystone-tip, one rotary, and one screw-holding screwdriver.

Cat. No. 85076 - Set Contains			
Cat. No.	Description	Blade Length (in)	Overall Length (in)
600-4	square-shank, keystone tip*	4	8-11/32
601-6	round-shank, cabinet-tip	6	9-3/4
602-6	round-shank, keystone-tip*	6	10-15/16
603-4	round-shank, No.2 Phillips-tip	4	8-5/16
605-6	round-shank, cabinet-tip*	6	10-11/32
670-6	cabinet-tip rotary	6	9-3/4
K36	slotted screw-holding screwdriver	6	9-3/4



*Heavy-duty models

5-in-1 Screwdriver/Nut Driver

- End of handle is marked to quickly identify tool.

Cat. No.	Contains
32476	features 5/16" nut driver, #1 and #2 Phillips, 9/32" slotted and 3/16" slotted



10-in-1 Screwdriver/Nut Driver

- End of handle is marked to quickly identify tool.

Cat. No.	Contains
32477	5/16" and 1/4" nut drivers, #1 and #2 Phillips, 1/4" and 3/16" slotted, T10 and T15 TORX®, #1 and #2 square-recess



11-in-1 Screwdriver/Nut Driver

- Integrated screwdriver/nut driver shaft holds 8 popular tips and converts to 3 nut driver sizes.
- Interchangeable blade for quick and easy switch out.
- Heavy duty shaft provides tight, solid feel.

Cat. No.	Contains
32500	3/8", 5/16" and 1/4" nut drivers, #1 and #2 Phillips, 1/4" and 3/16" slotted, T10 and T15 TORX®, and #1 and #2 square recess



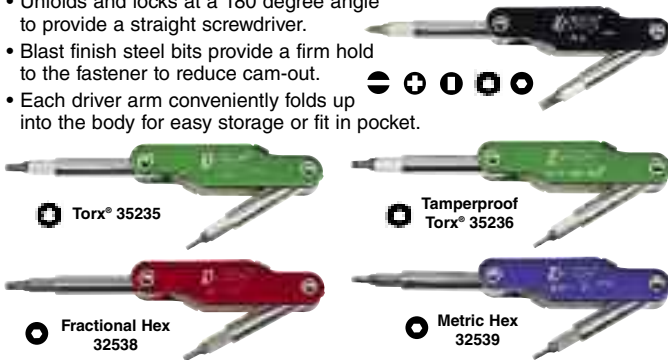
TORX® is a registered trademark of Acument Intellectual Properties, LLC.

Hand Tools

Klein Tools

10-in-1 Folding Screwdriver/Nut Driver

- Folding pocket-style 10-in-1 tool with interchangeable bits - 8 screwdriver sizes and 2 nut drivers.
- Unfolds and locks at a 180 degree angle to provide a straight screwdriver.
- Blast finish steel bits provide a firm hold to the fastener to reduce cam-out.
- Each driver arm conveniently folds up into the body for easy storage or fit in pocket.



Cat. No.	Handle Color	Contains
32535	black	contains 5/16" & 1/4" nut drivers, #1 & #2 Phillips, 1/4" & 3/16" slotted, T10 & T15 TORX®, and #1 and #2 square-recess.
32536	green	contains 5/16" & 1/4" nut drivers, T6, T8, T10, T15, T20, T25, T27 TORX®.
32537	green	contains 5/16" & 1/4" nut drivers, T7, T8, T9, T10, T15, T20, T25, T27 TORX®.
32538	red	contains 5/16" & 1/4" nut drivers, 1/16", 5/64", 3/32", 7/64", 1/8", 9/64", 5/32", 3/16" standard hex.
32539	blue	contains 5/16" & 1/4" nut drivers, .9 mm, 1.3 mm, 1.5 mm, 2 mm, 2.5 mm, 3 mm, 4 mm, 5 mm metric hex.

Replacement Bits: for 5-in-1, 10-in-1, 11-in-1 and 10-Fold™ Interchangeable Screwdriver/Nut Drivers

Cat. No.	Fits	Description	Quantity
32478	5-in-1	#1 Phillips - 3/16" slotted	1 bit
32479	5-in-1	#2 Phillips - 9/32" slotted	1 bit
32482	10-in-1, 11-in-1 & 10-Fold™	#1 Phillips & 3/16" Slotted	2 bits
32483	10-in-1, 11-in-1 & 10-Fold™	#2 Phillips & 1/4" Slotted	2 bits
32484	10-in-1, 11-in-1 & 10-Fold™	#1 Square & #2 Square	2 bits
67101	10-in-1, 11-in-1 & 10-Fold™	#2 Phillips & 3/16" Slotted	2 bits
32540	10-in-1, 11-in-1 & 10-Fold™	TT7 & TT8 Tamperproof Torx®	2 bits
32541	10-in-1, 11-in-1 & 10-Fold™	TT9 & TT10 Tamperproof Torx®	2 bits
32542	10-in-1, 11-in-1 & 10-Fold™	TT15 & TT20 Tamperproof Torx®	2 bits
32543	10-in-1, 11-in-1 & 10-Fold™	TT25 & TT27 Tamperproof Torx®	2 bits
32544	10-in-1, 11-in-1 & 10-Fold™	#6 Torx® & #7 Torx®	2 bits
32485	10-in-1, 11-in-1 & 10-Fold™	#10 Torx® & #15 Torx®	2 bits
32545	10-in-1, 11-in-1 & 10-Fold™	#T8 Torx® & #10 Torx®	2 bits
32546	10-in-1, 11-in-1 & 10-Fold™	#T25 Torx® & #T27 Torx®	2 bits
32547	10-in-1, 11-in-1 & 10-Fold™	3/32" Hex & 7/64" Hex	2 bits
32548	10-in-1, 11-in-1 & 10-Fold™	5/32" Hex & 3/16" Hex	2 bits
32549	10-in-1, 11-in-1 & 10-Fold™	1/16" Hex & 5/64" Hex	2 bits
32550	10-in-1, 11-in-1 & 10-Fold™	1/8" Hex & 9/64" Hex	2 bits
32551	10-in-1, 11-in-1 & 10-Fold™	.9 mm Hex & 1.3 mm Hex	2 bits
32552	10-in-1, 11-in-1 & 10-Fold™	1.5 mm Hex & 2 mm Hex	2 bits
32553	10-in-1, 11-in-1 & 10-Fold™	2.5 mm Hex & 3 mm Hex	2 bits
32554	10-in-1, 11-in-1 & 10-Fold™	4 mm Hex & 5 mm Hex	2 bits

Plastic-Handle, Slotted Screwdrivers

WARNING: Do not use any screwdriver on live electrical circuits.
WARNING: Plastic-dipped blades, shanks, or other tool parts are NOT intended for protection against electrical shock.

- Smooth Comfordome handles fit the palm of the hand comfortably.
- Chrome-plated shaft helps prevent corrosion.
- Internal flanges provide solid, twist-resistant shaft anchor.
- Meets or exceeds applicable ASME / ANSI specifications.
- Tough amber plastic handle.
- Nickel-chrome, precision-forged and polished blades with black tips.

TORX® is a registered trademark of Acument Intellectual Properties, LLC.

Midget Screwdriver, Keystone-Tip

- Specially designed for delicate instrument work.

Cat. No	Shank Tip Width (in)	Shank Length (in)	Overall Length (in)
A000	3/32	1-1/2	2-7/8

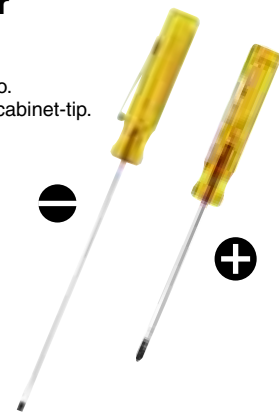


Pocket-Clip Screwdriver

- Round-shank screwdriver.
- Convenient pocket clip.
- Cat. No. A010 has keystone-tip, Cat. No. p12 has Phillips-tip and the rest have cabinet-tip.

Cat. No	Shank Tip Width (in)	Shank Length (in)	Overall Length (in)
A010	3/32	1-13/8	3-1/4
A130-2	1/8	2	3-7/8
A130-3	1/8	3	4-7/8
A116-2	3/32	2	4-7/16
A116-3	3/32	3	5-7/16
A116-4	3/32	4	6-7/16
A131-2	1/8	2	4-7/16

Phillips-Tip, No.0 point size			
P12	1/8	2-1/2	5



1/8" Cabinet-Tip, Round-Shank

- Small-diameter shank for use in recessed holes or tight places.
- Well-suited for electrical and telecommunications work.

Cat. No	Shank Tip Width (in)	Shank Length (in)	Overall Length (in)
A230-2	1/8	2	5
A216-2	1/8	2	5
A216-3	1/8	3	6
A216-4	1/8	4	7
A216-6	1/8	6	9
A216-8	1/8	8	11
A216-10	1/8	10	13

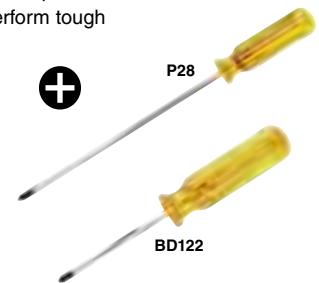


Cat. No	Shank Tip Width (in)	Shank Length (in)	Overall Length (in)
A316-3	3/16	3	6-5/8
A316-4	3/16	4	7-5/8
A316-6	3/16	6	9-5/8
A316-8	3/16	8	11-5/8
A316-10	3/16	10	13-5/8

Round-Shank, Phillips-Tip

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

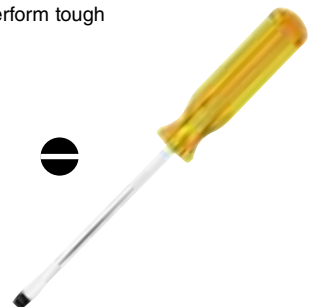
Cat. No	Point Size	Shank Length (in)	Overall Length (in)
BD111	No.1	3	6-5/8
BD122	No.2	4	8-1/2
BD133	No.3	6	11-13/16
P18	No.1	8	11-1/2
P28	No.2	8	11-5/8
P212	No.2	12	15-5/8
P202	No.2	20	24-1/2



Round-Shank, Keystone-Tip

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

Cat. No	Shank Tip Width (in)	Shank Length (in)	Overall Length (in)
BD143	7/32	3	7-1/2
BD144	1/4	4	8-1/2
BD146	1/4	6	10-1/2
BD156	5/16	6	11-3/16
BD158	5/16	8	13-3/16
BD408	3/8	8	13-3/16
BD510	3/8	10	15-3/16
BD512	3/8	12	17-3/16



Klein Tools

Slotted Screw-Holding Screwdriver

- Split-blade screw-holding driver wedges into screw slot.
- Positive gripping action holds, starts, and drives slotted screws in awkward, hard-to-reach places.
- Not designed for torquing or tightening.

Cat. No	Shank Tip Width	Shank Length (in)	Overall Length (in)
K21†	1/16	3	5-1/4
K23	3/16	3	5-1/4
K28	3/16	8	10-1/4
K34‡	1/4	4	7-3/4
K36‡	1/4	6	9-3/4
K38‡	1-4	8	11-3/4
K44	5/16	4	8-1/4
K46	5/16	6	10-1/4
K48	5/16	8	12-1/4



† For use with small precision screws. Blade thickness of .028" expanding to .045".
‡ Blade thickness of .043" expanding to .085".
Note: K21 and K23 have pocket clips.

CUSHION GRIP NUT DRIVERS

- Full hollow shafts facilitate work on stacked circuit boards or other long bolt applications.
- Internal flanges provide solid, twist-resistant shaft anchor.
- Premium chrome plated for smooth feel and corrosion resistance.
- Meets or exceeds applicable ASME / ANSI specifications.
- Handle end is also color coded for easy identification.
- Cushion-Grip handle allows for greater torque and comfort.
- Patented Tip-Ident® quickly identifies nut driver and size.

Cushion-Grip, Hollow-Shaft Nut Drivers

- Standard length for most applications.
- Fits over long bolts and studs.

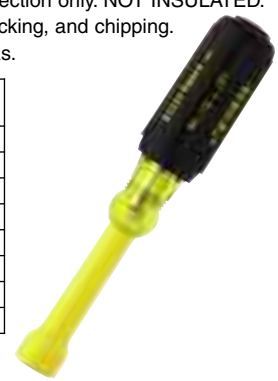
Cat. No	Color Code	Hex Size	Shank Length (in)	Overall Length (in)
630-3/16	black	3/16	3	6-3/4
630-1/4	red	1/4	3	6-3/4
630-5/16	yellow	5-16	3	6-3/4
630-11/32	green	11/32	3	6-3/4
630-3/8	blue	3/8	3	6-3/4
630-7/16	brown	7/16	3	7-5/16
630-1/2	red	1/2	3	7-5/16
630-9/16	orange	9/16	4	9-3/8
630-5/8	yellow	5/8	4	9-3/8



Hollow-Shaft Nut Drivers with Plastic-Dipped Shank

- Entire shank plastic coated for circuit protection only. NOT INSULATED.
- Special plastic coating resists cutting, cracking, and chipping.
- Thin coating permits use in confined areas.

Cat. No	Color Code	Hex Size	Shank Length (in)	Overall Length (in)
640-3/16	black	3/16	3	6-3/4
640-1/4	red	1/4	3	6-3/4
640-5/16	yellow	5-16	3	6-3/4
640-3/8	blue	3/8	3	6-3/4
640-7/16	brown	7/16	3	7-5/16
640-1/2	red	1/2	3	7-5/16
640-9/16	orange	9/16	4	9-3/8
640-5/8	yellow	5/8	4	9-3/8



PLASTIC HANDLE HOLLOW-SHAFT NUT DRIVERS

- Smooth Comfordome handles fit the palm of the hand comfortably.
- Handles are color-coded for easy identification.
- Hollow shafts facilitate work on stacked circuit boards or other long bolt applications.
- Chrome-plated shaft helps prevent corrosion.
- Internal flanges provide solid, twist-resistant shaft anchor.
- Meets or exceeds applicable ASME / ANSI specifications.

Hollow-Shaft Nut Drivers

- Standard length works for most applications.
- Fits over long bolts and studs.

Cat. No	Handle Color	Hex Size	Shank Length (in)	Overall Length (in)
S5	amber	5/32	3	6-1/2
S6	black	3/16	3	6-5/8
S7	brown	7/32	3	6-5/8
S8	red	1/4	3	6-5/8
S9	orange	9/32	3	6-5/8
S10	amber	5/16	3	6-5/8
S11	green	11/32	3	6-5/8
S12	blue	3/8	3	6-5/8
S14	brown	7/16	3	7
S16	red	1/2	3	7
S18	red	9/16	4	8-1/2
S20	red	5/8	4	8-1/2



Individual Nut Drivers - 6" Shaft

- Reaches into deep recesses.
- Fits over long bolts and studs.

Cat. No	Handle Color	Hex Size	Shank Length (in)	Overall Length (in)
S66	black	3/16	6	9-5/8
S86	red	1/4	6	9-5/8
S106	amber	5/16	6	9-5/8
S116	green	11/32	6	9-5/8
S126	blue	3/8	6	9-5/8
S146	brown	7/16	6	10



Metric Nut Drivers

- Standard length works for most applications.
- Fits over long bolts and studs.

Cat. No	Handle Color	Hex Size (mm)	Shank Length (in)	Overall Length (in)
70204	black	4	3	6-5/8
70245	black	4.5	3	6-5/8
70205	black	5	3	6-5/8
70255	black	5.5	3	6-5/8
70206	black	6	3	6-5/8
70207	black	7	3	6-5/8
70208	black	8	3	6-5/8
70209	black	9	3	6-5/8
70210	black	10	3	7
70211	black	11	3	7



Hand Tools

Klein Tools

SCRATCH AWL

Cushion-Grip Scratch Awl

- Professional, heavy-duty, hard-pointed awl.
- Scribes metal, starts screw holes, performs a variety of piercing and punching jobs.
- Rigid, chrome-plated, heat-treated, tempered-steel shank has full reinforcing bolster at handle for extra strength and for handle impact reinforcement.
- Internal flanges provide solid shank anchor.
- Cushion-Grip handle allows for greater comfort.



Cat. No	Blade Length (in)	Overall Length (in)
650	3-1/2	7-7/8

Steel Scratch Awl

- One-piece forged-steel blade and bolstered shank.
- Heat treated for long life.
- Well-balanced for top efficiency during use.
- Black finish for rust resistance.



Cat. No	Blade Length (in)	Overall Length (in)
66385	3-1/2	7

SPRING TOOL

- Installs or removes small-diameter coil springs on motors, brake shoes, headlights, relays, installing recessed can lighting, solenoids, and hundreds of other applications.
- Unique C-tip prevents spring slippage.
- Cushion-Grip handle for greater comfort.



Cat. No	Shank Length (in)	Overall Length (in)
ST4	4	7-3/4
ST6	6	9-3/4

SHEET METAL TOOLS

Straight and Offset Hand Seamers

- Compound-leverage mechanism easily and accurately bends, seams and flattens sheet metal and non-ferrous metals for use in most general applications.
- Broader jaw model for forming wider folds.
- Folds 22 ga. CRSM and 24 ga. SSSM.
- Jaw marked in 1/4" (6 mm) increments for precise bending measurements.
- Heavy-duty jaw/handle linkage for durability and easy operation.
- All steel construction and nickel chrome plated hardware provide long life and durability.
- Vinyl grips with handle stops for added comfort and easy operation.
- 86552 good for use in overhead and confined areas.



ST6



ST4

Cat. No	Description
ST4	Straight hand seamer, 8" overall length
ST6	Offset hand seamer, 8" overall length

Hand Notcher

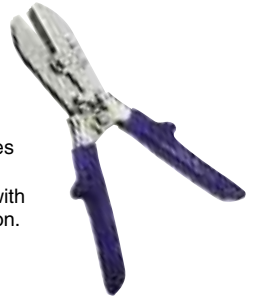
- Cuts 30° "V" shaped cuts in sheet metal quickly and easily.
- Drop-forged, high impact steel jaw with 13/16" maximum throat depth.
- Jaws' hook design allows easy notching of corners and take-off tabs without slippage.
- All-steel construction with nickel-plate and black-oxide finish provides long life and durability.
- Hardened steel handles include hand guards and are covered with vinyl grips for added comfort and easy operation.



Cat. No	Handle Color	Overall Length (in)
86551	blue	8-1/2

5-Blade Crimper

- Compound-leverage mechanism produces precise indentations in stove pipe and round duct with just a squeeze.
- Crimps 24 ga. CSRM and 28 ga. SSSM.
- All steel construction with nickel-plating provides long life and durability.
- Hardened steel handles include hand guards with vinyl grips for added comfort and easy operation.



Cat. No	Handle Color	Overall Length (in)
86550	blue	9

POCKET KNIVES

Coping Blade Pocket Knife

- Coping-type blade — 2-1/4" long.
- Compact and lightweight.
- Ideal for skinning small wire and cable.
- Blade locks open on Cat. No. 1550-11



Cat. No	Blade Steel	Blade Length (in)	Length Closed (in)
1550-5	carbon steel	2-1/4	3-1/4
1550-11	carbon steel	2-1/4	3-1/4
1550-45	stainless steel	2-1/4	3-1/4

2-Blade Pocket Knife

- Standard spearpoint blade — 2-1/2" long.
- Screwdriver-tip blade — 2-1/2" long.
- Screwdriver blade locks open.



Cat. No	Blade Steel	Blade Length (in)	Length Closed (in)
1550-2	carbon steel	2-1/2	3-3/4
1550-42	stainless steel	2-1/2	3-3/4

3-Blade Pocket Knife

- Curved-sheepfoot skinning blade — 2-3/8" long.
- Standard spearpoint blade — 2-1/2" long.
- Screwdriver-tip blade — 2-1/2" long.
- Screwdriver blade locks open.



Cat. No	Blade Steel	Blade Lengths (in)	Length Closed (in)
1550-6	carbon steel	2-1/2 2-1/2 2-3/8	3-3/4

Klein Tools

2-Blade Pocket Knife

- Curved sheepfoot skinning blade – 2-3/8" long.
- Special insulation-slitting blade – 1-1/2" long.
- Slitting blade locks open

Cat. No	Blade Steel	Blade Lengths (in)	Length Closed (in)
1550-10	carbon steel	2-3/8 1-1/2	3-3/4



2-Blade Pocket Knife

- Curved-sheepfoot slitting blade — 2-3/8" long.
- Screwdriver-tip blade — 2-1/2" long.
- Screwdriver blade locks open.

Cat. No	Blade Steel	Blade Lengths (in)	Length Closed (in)
1550-7	carbon steel	2-3/8 2-1/2	3-3/4



Slitting Pocket Knife

- Extra-large curved sheepfoot slitting-blade — 2-5/8" long.
- Ideal for heavy-duty line work.
- Woodgrain plastic handle.
- Blade locks open.

Cat. No	Blade Steel	Blade Length (in)	Length Closed (in)
1550-4	carbon steel	2-5/8	4
1550-44	stainless steel	2-5/8	4



Coping Blade Pocket Knife

- Big, carbon-steel coping-type blade – 3" long.
- Woodgrain plastic handle.
- Blade locks open.

Cat. No	Blade Steel	Blade Length (in)	Length Closed (in)
1550-14	carbon steel	3	4-1/4



SPECIAL PURPOSE KNIVES

Cable-Sheath Splitting Knife

- Compact, lightweight knife for opening lead cables.
- Rugged, forged tempered cutlery steel blade.
- Sharp, chisel-shaped edge.
- Hammer head on back.
- Plastic-dipped handle for comfort.
- Leather guard available, Cat. No. 5574S.

Cat. No	Blade Length (in)	Overall Length (in)
1515-S	2-19/32	7-3/8



Bell System Cable-Sheath Splitting Knife — Heavy-Duty

- Heavy-duty knife for splitting cable sheaths.
- Rugged, forged tempered cutlery steel blade.
- Sharp chisel-shaped edge.
- Plastic-dipped handle for comfort.
- Leather guard available, Cat. No. 5574L.

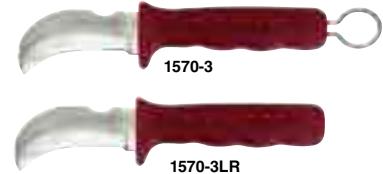
Cat. No	Blade Length (in)	Overall Length (in)
1515-S	4-1/2	8-3/4



Lineman's Skinning Knife

- Three-inch steel blade withstands frequent scoring and slitting of cable jacket.
- Blade and ring are securely molded in handle.
- Notch on blade back for scraping or removing wire insulation.
- Comfortable textured handle with finger grooves and guard.
- Rectangle-shaped handle design for attachment to some utility hot stick equipment.
- Leather sheath available, Cat. No. 5163.
- 1570-3: No contact between stainless steel ring and hardened steel blade.

Cat. No	Handle Color	Length Less Ring (in)
1570-3	red	8
1570-3LR	red	8



Cable-Splicer's Knife

- Special-purpose short blade with comfortable, full-sized, heavy-duty handle.
- Coping-type blade made of the finest cutlery steel, tough and carefully tempered to hold its edge.
- Handle is textured for comfort and firm grip.
- Hang hole for easy storage and portability.

Cat. No	Blade Length (in)	Overall Closed (in)
44200	1-3/4	6-1/4



Cable Splicer's Kit

- Includes cable-splicer's knife, electrician's scissors, and 2-pocket leather pouch.
- Cuts cable, telephone wire, and strips insulation.
- Dimensions: 2-1/8" x 7-1/2"

Cat.No	Description
46037	Kit contains: Cable-splicer's knife Cat. No. 44200; Electrician's scissors with stripping notches Cat. No. 2100-7; Slotted leather holder Cat. No. 5187 for belts up to 2" wide



INSULATED TOOLS

- Klein insulated tools exceed IEC 60900 and ASTM F1505 standards for insulated tools, and are clearly marked with the official 1000-volt rating symbol.
- Two layers of insulation provide protection against electric shock.
- Individually tested to exceed standards.

Insulated High-Leverage Diagonal Cutters

- High-leverage design. Rivet is closer to the cutting edge for 36% greater cutting power than other plier designs.
- Custom US-made tool steel.
- Integral guards help prevent hand contact with conductive parts.

Cat. No.	Overall Lgth (in)	Jaw Lgth. (in)	Jaw Width (in)	Jaw Thkns (in)	Cutting Knives	Handle Finish	Wght (lbs)
D228-8-INS	8-1/4	13/16	1-3/16	7/16	standard	insulated	.74
2000 Series - Heavy-duty cutting knives							
D2000-28-INS	8-1/4	13/16	1-3/16	7/16	standard	insulated	.74



Hand Tools

Klein Tools

Insulated Heavy-Duty Diagonal-Cutting Pliers - Tapered Nose

- Heavy-duty tapered nose design.
- One-inch deep jaws easily reach into confined spaces.
- Custom US-made tool steel.
- Integral guards help prevent hand contact with conductive parts.

Cat. No.	Overall Lgth (in)	Jaw Lgth. (in)	Jaw Width (in)	Jaw Thkns (in)	Cutting Knives	Handle Finish	Wght (lbs)
D200-7-INS	7-7/8	1	31/32	1/2	standard	insulated	.66



Insulated Pump Pliers

- Secure tongue and groove design for non-slip grip – even with heavy pressure.
- Custom US-made tool steel.
- Integral guards help prevent hand contact with conductive parts.

Cat. No.	Overall Lgth (in)	Max Jaw Capacity	Handle Finish	Wght (lbs)
D502-10	10-1/4	1-3/4	insulated	1.09



Insulated Heavy-Duty Long-Nose Pliers - Side-Cutting

- Induction hardened cutting knives for long life.
- Heavier design for easier, more comfortable cutting.
- Extended handles provide added reach and leverage.
- Custom US-made tool steel.
- Integral guards help prevent hand contact with conductive parts.

Cat. No.	Overall Lgth (in)	Jaw Lgth. (in)	Jaw Width (in)	Jaw Thkns (in)	Knife Lgth. (in)	Point Thkns (in)	Handle Finish	Wght (lbs)
D203-8-INS	8-7/8	2-5/16	1	1/2	5/8	1/8	insulated	.73
Wire Stripping – Cleanly strips 12 AWG wire								
D203-8N-INS	8-7/8	2-5/16	1	1/2	5/8	1/8	insulated	.73



Insulated Heavy-Duty Long-Nose Pliers - Side-Cutting

- Special, high-leverage design for exceptional cutting capability.
- Cable-gripping shear-type jaws.
- Precision, one-hand shearing action.
- Perfect for working in confined spaces.

Cat. No.	Overall Lgth (in)	Maximum Cable Cutting Capacity	Wght (lbs)
63050-INS	9-5/8	4/0 aluminum, 2/0 soft copper, 100-pair 24 AWG communications wire	1.04



Insulated Crimping /Cutting Tool

- Insulated crimping tool with tapered nose designed for working in confined spaces.
- Crimping dies marked for insulated or non-insulated solderless terminals and connectors.
- Accommodates wire from No. 10 to 22 AWG.
- Wire cutter in nose.
- Integral guards help prevent hand contact with conductive parts.
- Custom US-made tool steel.

Cat. No.	Overall Lgth (in)	Crimps	Handle Finish	Wght (lbs)
1005-INS	9-3/4	10 to 22 AWG	insulated	1.05



Insulated Wire Stripper/Cutter

- Gauges, cuts, strips, and loops wire.
- Spring-loaded for self-opening.
- Compact, lightweight wire-stripping, cutting tool.
- Narrow nose fits into tight places.
- Do not use for cutting steel wire or bolts.
- Hardened spring steel with precision-ground stripping holes for easy removal of insulation.

Cat. No.	Overall Lgth (in)	Strips & Cuts	Handle Finish	Wght (lbs)
11045-INS	6	10 - 18 AWG solid	insulated	.70
11049-INS	7	8 - 18 AWG	insulated	.70



Insulated Klein-Kurve® Wire Stripper/Cutter

- Cuts, strips, loops and gauges both 10-18 solid and 12-20 stranded AWG wire.
- Cleanly shears 6-32 and 8-32 screws.
- Comfortable curved handles.
- Hardened steel with precision ground stripping holes for easy removal of insulation.
- Spring-loaded action for self-opening.
- Strong gripping serrated nose for bending, shaping and pulling of wire.
- Do not use for cutting steel wire.

Cat. No.	Overall Lgth (in)	Screw Shearing	Strips & Cuts	Handle Finish	Wght (lbs)
11055-INS	8	6-32 & 8-32	10-18 AWG Solid and 12-20 AWG Stranded	insulated	.75



Insulated Keystone-Tip, Heavy-Duty Round-Shank Screwdriver

- Tips are precision ground to fit screw openings securely and resist slippage.
- Cushion-Grip handles for greater torque and comfort.
- Patented Tip-Ident® quickly identifies the type of screwdriver and tip orientation.

Cat. No	Shank Tip Width (in)	Shank Length (in)	Overall Length (in)
602-4-INS	1/4	4	8-11/32
602-6-INS	5/16	6	10-15/16
602-10-INS	3/8	10	15-7/16



Insulated Cabinet-Tip, Round-Shank Screwdriver

- Perfect for electrical, telephone and work in recessed holes and other tight spaces.
- Patented Tip-Ident® quickly identifies the type of screwdriver and tip orientation.

Cat. No	Shank Tip Width (in)	Shank Length (in)	Overall Length (in)
601-4-INS	3/16	4	7-3/4
601-6-INS	3/16	6	9-3/4
601-8-INS	3/16	8	11-3/4



Klein Tools

Insulated Phillips-Tip, Round-Shank Screwdrivers

- Cushion-Grip handles for greater torque and comfort.
- Tips are Profilated® to provide a more consistent geometric symmetry than conventional Phillips-tip screwdrivers.
- Patented Tip-Ident® quickly identifies the type of screwdriver and tip orientation.
- Two layers of insulation provide protection against electrical shock.
- Custom US-made steel.

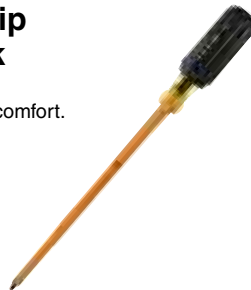
Cat. No	Point Size (in)	Shank Length (in)	Overall Length (in)
603-3-INS	No.1	3	6-3/4
603-4-INS	No.2	4	8-5/16
603-6-INS	No.3	6	11



Insulated, Square-Recess-Tip Screwdriver – Round-Shank

- Round shank with square-recess tip.
- Cushion-Grip handles for greater torque and comfort.
- Patented Tip-Ident® quickly identifies the type of screwdriver and tip orientation.
- Custom US-made tool steel.

Cat. No	Point Size (in)	Shank Length	For Screw Sizes	Overall Length (in)
666-INS	No.2	8	8, 9, 10	12-5/16



Insulated, Cushion-Grip Hollow-Shaft Nut Drivers

- Cushion-Grip handles for greater torque and comfort.
- Handle caps are color-coded for easy size identification.
- Strong hex-head drives nuts and socket screws.
- Insulated, full hollow-shaft shank permits turning nuts on long screws.
- Patented Tip-Ident® quickly identifies nut driver size.
- Custom US-made tool steel.

Cat. No	Color Code	Hex Size	Shank Length (in)	Overall Length (in)
630-3/16-INS	black	3/16	3	6-3/4
630-1/4-INS	red	1/4	3	6-3/4
630-5/16-INS	yellow	5-16	3	6-3/4
630-11/32-INS	green	11/32	3	6-3/4
630-3/8-INS	blue	3/8	3	6-3/4
630-7/16-INS	brown	7/16	3	7-5/16
630-1/2-INS	red	1/2	3	7-5/16
630-9/16-INS	orange	9/16	4	9-3/8
630-5/8-INS	yellow	5/8	4	9-3/8
646-3/16-INS	black	3/16	6	9-3/4
646-1/4-INS	red	1/4	6	9-3/4
646-5/16-INS	yellow	5-16	6	9-3/4
646-11/32-INS	green	11/32	6	9-3/4
646-3/8-INS	blue	3/8	6	9-3/4
646-7/16-INS	brown	7/16	6	9-3/4
646-1/2-INS	red	1/2	6	10-5/16
646-9/16-INS	orange	9/16	6	11-3/8
646-5/8-INS	yellow	5/8	6	11-3/8



Insulated Cable/Lineman's Skinning Knife

- Extra-strong construction for line work.
- Tough, tempered-steel blade provides maximum sharpness and durability to withstand frequent cable scoring.
- Rugged insulated handle provides a firm, comfortable grip and has large finger guard.

Cat. No	Blade Length	Handle Finish	Nominal Length (in)
1570-3LR-INS	2-1/4	3	7-3/4



HACKSAWS

Heavy-Weight Hacksaw

- A rugged, heavy-duty saw with the versatility to satisfy professional requirements.
- Greater weight means a faster job.
- Permits efficient one-hand use where necessary.
- Blade cuts fully through to a flat surface.
- Converts easily from vertical to horizontal position for full-flush cutting.
- Durable, tubular steel frame, die-cast zinc handles with blue finish.
- Pivot-action front end with slotted tensioning rod permits maximum tightening of blade for more efficient sawing and longer blade life.
- Curved front-end design for comfortable two-hand use.
- Storage for extra blades in tubular steel frame.
- Supplied with blade; 1032C blade.

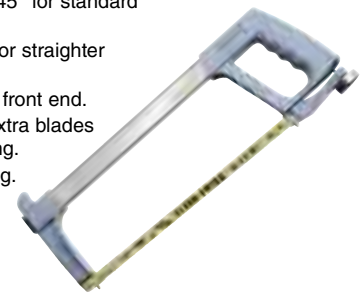
Cat. No	Blade Length (in)	Overall Length (in)
701-10	10	14
701-12	12	16



Dual-Purpose Hacksaw - GoldenTri-Cut™ 3-in-1 Blade

- Blade has three teeth sizes.
- Blade converts quickly to 90° or 45° for standard or flush-cut applications.
- Pivot-lock adjusts blade tension for straighter cuts and longer blade life.
- Aluminum finger grip handle and front end.
- Set screw allows for storage of extra blades and secures blade for "jab" sawing.
- Thumb guard for two-hand sawing.

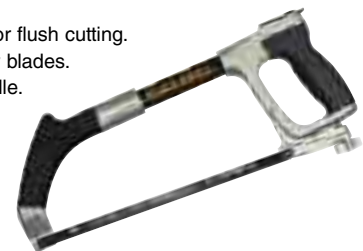
Cat. No	Blade Length (in)	Overall Length (in)
701-S	12	16



High-Tension Hacksaw

- Adjustable blade tension up to 30,000 PSI for fast, precise cuts.
- Soft touch grips.
- Alternative 45 degree mounting for flush cutting.
- Front mount for reciprocating saw blades.
- Convenient blade storage in handle.
- Includes 12" x 24 TPI bi-metal hacksaw blade and 6" x 24TPI bi-metal reciprocating saw blade.

Cat. No	Blade Length (in)	Overall Length (in)
702-12	12	16-1/4



Jab Saw

- Cuts drywall, wallboard, plywood, and plastic.
- Triple ground teeth for a fast cut.
- Blade cuts in both directions (push and pull).
- Hardened, carbon steel blade for durability.
- Hardened, beveled blade point for scoring and plunge cuts.
- Comfort-cushion grip with thumb groove.
- Handle structure designed for strength and durability.
- Flat-end grip for palming or punching through drywall.

Cat. No	Blade Length (in)	Overall Length (in)
725	6	12



Hand Tools

Klein Tools

HAMMERS

- Comfortable, perforated neoprene grip bonded to handle.
- Polished, forged, tempered-steel head.
- High-strength fiberglass shaft absorbs shock and keeps head tight.
- Durable plastic-alloy jacketing helps protect neck from fraying and splintering if incorrectly struck or overstruck.

Electrician's Straight-Claw Hammer

- Correctly balanced and designed specifically for use in electrical work.
- Extra-long neck, and narrow striking face are ideal for reaching into outlet boxes and other tight areas.

Cat. No.	Head Weight (oz)	Overall Length (in)	Weight (lbs)
807-18	18	15	1.85



Heavy-Duty Curved-Claw Hammer

- Curved claw gives maximum nail-pulling leverage.

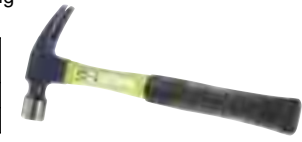
Cat. No.	Head Weight (oz)	Overall Length (in)	Weight (lbs)
818-16	16	13	1.85
818-20	20	14	2



Heavy-Duty Straight-Claw Hammer

- Straight-claw design for easy nail pulling in tight quarters.

Cat. No.	Head Weight (oz)	Overall Length (in)	Weight (lbs)
808-16	16	13	1.85
808-20	20	14	2



Lineman's Double-Face Hammer

- Designed for pole-line work.
- Rugged and well-balanced, with the weight to drive lag bolts.
- Forged, tempered-steel head is only 3-3/4" long for use in tight areas.
- Identical faces with 1-3/4" round-crown driving surface and beveled edges.

Cat. No.	Head Weight (oz)	Overall Length (in)	Weight (lbs)
809-36	36	14	2.50

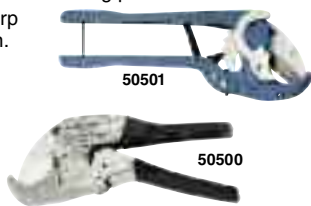


PVC CUTTERS

Ratcheting PVC-Cutter

- Makes clean, burr-free cuts through PVC.
- High-leverage ratchet-action for maximum cutting power.
- Special heat-treated blades stay sharp longer and reduces pipe deformation.

Cat. No.	Capacity	Length (in)	Weight (lbs)
50500	1/2 - 1-1/4	9	1.10
50501	1/2 - 2	16-1/2	2.60
50503	Replacement blade for 50500		
50504	Replacement blade for 50501		



PVC Cutter

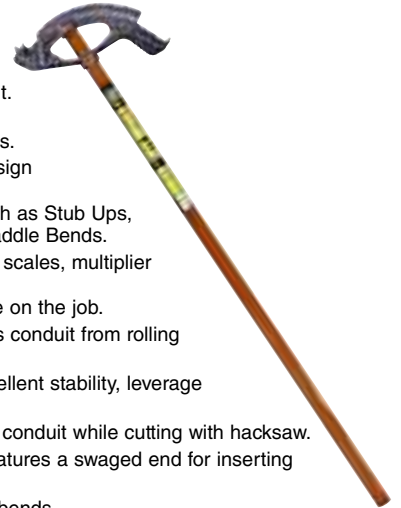
- Cuts up to 3/4" schedule 40 PVC.
- Makes clean burr-free cuts in PVC and flexible pipe.
- Reversible blade doubles life.
- Cuts 1-3/8" O.D. flexible plastic pipe.
- Guide helps cut pipe squarely.
- Handle latch keeps tool closed.

Cat. No.	Flexible Pipe Capacity	PVC Capacity	Weight (lbs)
50506	1-3/8	3/4 schedule 40	1.00



Conduit Bender

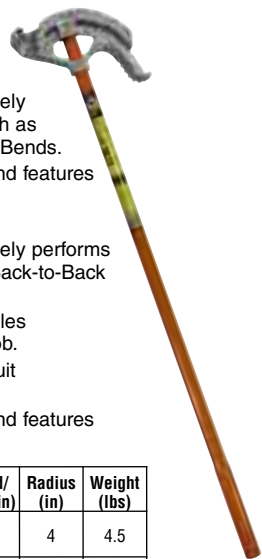
- Exclusive design reduces rippling and ovaling of conduit.
- Easily visible arrow for ease of alignment on conduit marks.
- Traditional Benfield® head design accurately and consistently performs common bends such as Stub Ups, Offsets, Back-to-Back and Saddle Bends.
- Bold cast-in symbols, degree scales, multiplier scales and center of bend marks help save time on the job.
- Interior hook surface prevents conduit from rolling or twisting during bends.
- Wide foot pedal provides excellent stability, leverage and comfort.
- Interior clamp securely holds conduit while cutting with hacksaw.
- High strength steel handle features a swaged end for inserting conduit to correct overbends.
- Includes Zip Guide for offset bends.



Cat. No.	Description	Thinwall/ EMT (in)	Rigid/ IMC (in)	Radius (in)	Weight (lbs)
56203	assembled AEROHEAD® conduit bender w/#51427	1/2	-	4	4.5
56204	assembled AEROHEAD® conduit bender w/#51428	3/4	1/2	5	5.6
56205	assembled AEROHEAD® conduit bender w/#51429	1	3/4	7	9.6

Aluminum Conduit Bender

- The efficient structural geometry eliminates excess material and unnecessary weight.
- The traditional Benfield® head design accurately and repeatably performs common bends such as Stub Ups, Offsets, Back-to-Back and Saddle Bends.
- Wide foot pedal provides excellent stability and features angled grooves for extra traction.
- Lightweight die-cast aluminum construction.
- The traditional Benfield® head design accurately performs common bends such as Stub Ups, Offsets, Back-to-Back and Saddle Bends.
- Bold cast-in benchmark symbols, degree scales and multiplier scales help save time on the job.
- Textured interior hook surface prevents conduit from rolling or twisting during bends.
- Wide foot pedal provides excellent stability and features angled grooves for extra traction.



Cat. No.	Description	Thinwall/ EMT (in)	Rigid/ IMC (in)	Radius (in)	Weight (lbs)
56206	assembled aluminum conduit bender w/#51427	1/2	-	4	4.5
56207	assembled aluminum conduit bender w/#51427	3/4	1/2	5	5.6

Aluminum Conduit Bender

- High-strength steel eliminates flex and provides excellent feel, control and leverage.
- Available in multiple sizes and lengths that are compatible with all Klein Tools conduit bender heads.
- 3/4" NPT tap size fits 1/2" and 3/4" bender heads.
- Replacement handle for Cat. Nos. 56206 and 56207.
- Features an enlarged diameter hollow end handle for inserting conduit to correct overbends.
- Bright orange color is easy to spot on the jobsite.
- Includes Zip Guide for offset bends.



Cat. No.	Description	Weight
51427	Conduit Bender Handle - 38" length	3.5
51428	Conduit Bender Handle - 44" length	6
51429	Conduit Bender Handle - 54" length	8.9

Klein Tools

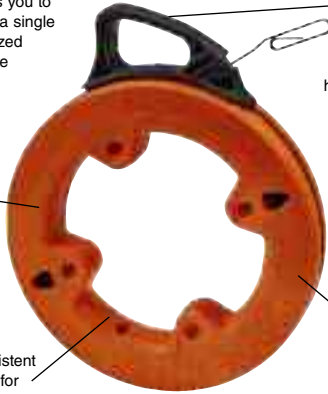
FISH TAPES

High Strength 1/8" Wide Steel Fish Tape

- Permanent, laser etched 1' increments on the tape allow you to more accurately measure the depth of conduit runs and determine the amount of tape left to pay out.

13" case diameter allows you to reel in 15% more tape in a single revolution than similar sized 12" tapes saving you time and effort.

Raised fingergrrips help transfer 100% of the winding power from your hand and fingers.



The unique sloped handle optimizes the position of your hand for quick handover-hand rewinds and allows a more level payout of tape on the backswing while feeding conduit.

Polypropylene case and handle are extremely durable and offer the maximum in shock and impact resistance.

Round inner ring design provides a smooth, consistent and comfortable surface for winding and rewinding.

Cat. No	Description	Reel Diameter	Tape Size	Weight (lbs)
56003	High Strength 1/8" Steel Fish Tape - 125'	13"	125' L x 1/8" W x .062" H	4.7
56004	High Strength 1/8" Steel Fish Tape - 240'	13"	240' L x 1/8" W x .062" H	7.5

TOOL POUCHES, CARRIERS & BELTS

PowerLine™ Series

- Constructed of double layered 1000 denier Dupont Cordura Nylon.
- Exceptional resistance to abrasion, punctures, and tearing.
- Double nylon-stitched and rivet reinforced for extra durability.
- Heavy-duty, nylon webbing.
- No break-in period; naturally forms and hugs the body, making it easy to wear for everyday use.
- Lightweight and comfortable in warm climates, soft and pliable in cold climates.
- Washable.

PowerLine™ Tool and Utility Pouches



5700



5701



5702



5703



5718



5719

Cat. No	Overall Size (in)	No. of Pockets	Weight (lb)
5700	11 x 12	9	.92
5701	11 x 12	8	.83
5702	11 x 12	2	.64
5703	11 x 12	3	.75
5718	11 x 12	8	.74
5719	11 x 12	19 plus chain tape thong	.87

PowerLine™ Combo Sets

4-Piece Combo Sets includes

- 8-Pocket Tool Pouch (Cat. No. 5701)
- 3-Pocket Utility Pouch (Cat. No. 5703)
- Hammer Holder (Cat. No. 5706)
- Padded Tool Belt (Cat. No. 5704)



4-Piece Electrician's Combo Sets includes

- 8-Pocket Tool Pouch (Cat. No. 5718)
- 19-Pocket Tool Pouch (Cat. No. 5719)
- Hammer Holder (Cat. No. 5706)
- Padded Tool Belt (includes nylon web belt Cat. No. 5704)

Cat. No	Size (in)	Width of Belt (in)	Weight (lb)
4-Piece Combo Set			
5709M	32-36	2	2.71
5709L	36-40	2	2.77
5709XL	40-44	2	2.80
5709XXL	44-48	2	2.60
4-Piece Electrician's Combo Set			
5710M	32-36	2	2.75
5710L	36-40	2	2.80
5710XL	40-44	2	3.05

PowerLine™ Padded Tool Belt

- 5" cushioned pad for stability and comfort.
- Tapered front for comfort while bending.
- Heavy-duty 2" wide nylon web belt with rugged metal buckle.

Cat. No	Size (in)	Width of Belt (in)	Weight (lb)
5704S	28-32	2	.90
5704M	32-36	2	.95
5704L	36-40	2	1.00
5704XL	40-44	2	1.05
5704XXL	44-48	2	1.10



PowerLine™ Web Work Belt

- Adjustable belt – fits waist sizes up to 54".
- Heavy-duty, 2" wide nylon webbing for extra strength.
- Accommodates tunnel loop and slotted tool pouches and holders.
- Rugged metal buckle for quick release and adjustment.

Cat. No	Size (in)	Width of Belt (in)	Weight (lb)
5705	one size fits all	2	.56



PowerLine™ Mobile Phone Holder

- Fits most small mobile phones.
- Metal belt clip for simple mounting and removal from belts up to 2" wide.
- Closable flap features genuine VELCRO® brand touch fasteners.
- Closed bottom for convenient storage.



Cat. No	Size (in)	Overall Dimensions		Pocket Dimensions			Weight (lb)
		H	W	H†	W	D	
5715XS	extra small	4-1/2	2-5/8	3	2-1/8	3/4	.01
5715S	small	4-1/2	2-5/8	3-1/2	2-1/8	1	.01
5715SMT	medium	5-1/2	2-5/8	4-1/4	2-1/8	1-1/4	.011
5715	large	6-1/2	3-5/8	5	3-5/8	1-1/4	.014

VELCRO® is a registered trademark of Velcro Industries B.V.

† Velcro latching cover accommodates phones slightly taller than pocket.

Hand Tools

Klein Tools

PowerLine™ Tool Holders



5706 Hammer Holder



5707 Tape Measure Holder



5708 Multi-Purpose Holder



5712 Tape Measure Pouch



5713 Flashlight Holder



5714 Closeable Pouch



5716 Utility Knife Holder

Cat. No	Description	Belt Connection	Belt Width (in)	Overall Size (in)	Weight (lb)
5706	Heavy-metal hammer loop riveted for strength	tunnel	up to 2-1/4	4-1/8 x 5	.19
5707	Holds most tape measures with belt clips.	tunnel	up to 2-1/4	4-1/8 x 3-3/4	.10
5708	Holds a flashlight, cellular phone, or electrical tester	tunnel	up to 2-1/4	3-1/4 x 8-1/2	.13
5712	Holds most 35' tape measures, fasteners, nails, or wire nuts. Two inside elastic loops fit screwdrivers, pencils or markers	tunnel	up to 2-1/4	8-1/4 x 4-1/2	.24
5713	Accommodates most "D" cell size battery flashlights up to 1-7/8" in diameter	tunnel	up to 2-1/4	4-1/4 x 2-3/8	.06
5714	Closeable pouch helps protect supplies and tools	tunnel	up to 2-1/4	7-1/2 x 6-3/4	.24
5716	Holds standard utility knife or other small tools	tunnel	up to 2-1/4	7-3/4 x 2-1/2	.15

PowerLine™ Padded Suspenders

- Fully adjustable length – front & back.
- Heavy-duty, 1-1/2" wide nylon web strap for extra strength and long wear.
- Convenient fastening system features genuine VELCRO® brand touch fasteners.
- Heavy-duty padding for user comfort.



Cat. No	Size	Weight (lb)
5717	one size fits most	.84

3-Pocket Tool Pouch

- Leather construction.
- Features 1" reinforced gusset.
- Has 2" outside pockets.
- Riveted and stitched for extra durability.



Cat. No	Pockets	Belt Connection	Belt Width	Overall Size (in)	Weight (lb)
5145	3	tunnel	1	5-1/4 x 7	.46

4-Pocket Tool Pouch

- Leather construction.
- Riveted and stitched for extra durability.



Cat. No	Pockets	Specialty Add-Ons	Belt Connection	Belt Width	Overall Size (in)	Weight (lb)
5119	4	knife snap	slotted	2	6-1/2 x 8-1/2	.39

5-Pocket Tool Pouch

- Leather construction.
- Riveted to assure long life.



Cat. No	Pockets	Specialty Add-Ons	Belt Connection	Belt Width	Overall Size (in)	Weight (lb)
5126	5	knife snap	slotted	2	6 x 8-3/4	.74

5-Pocket Tool Pouch

- 5125: Constructed of #4 canvas, leather back, pockets and loops.
- 5125L: Leather construction.
- General-purpose pouch.
- Slotted-leather tape thong (allows easy removal of 1" I.D. tape rolls).
- Riveted and stitched for extra durability.



Cat. No	Pockets	Specialty Add-Ons	Belt Connection	Belt Width	Overall Size (in)	Weight (lb)
5125	5	leather tape thong	loops	2-1/4	7-1/2 x 8-1/2	.63
5125L	5	leather tape thong	loops	2-1/4	7-1/2 x 8-1/2	.75

6-Pocket Tool Pouch

- Leather construction.
- Riveted to assure long life.



Cat. No	Pockets	Specialty Add-Ons	Belt Connection	Belt Width	Overall Size (in)	Weight (lb)
5127	6	knife snap	slotted	2	7 x 10	.79
5127T	6	knife snap	tunnel	2-1/2	7 x 10	.87

8-Pocket Tool Pouch

- Leather construction.
- Extra-capacity multi-purpose pouch.
- Stitched and riveted.



Cat. No	Pockets	Specialty Add-Ons	Belt Connection	Belt Width	Overall Size (in)	Weight (lb)
5164	8	knife snap	slotted	3	6-3/4 x 9-3/4	1.16
5164T	8	knife snap	tunnel	3	6-3/4 x 9-3/4	1.21

8-Pocket Extra Capacity Tool Pouch

- Leather construction.
- Extra-capacity multi-purpose pouch.
- Stitched and riveted.



Cat. No	Pockets	Specialty Add-Ons	Belt Connection	Belt Width	Overall Size (in)	Weight (lb)
5162T	8	knife snap, leather tape thong	tunnel	3	8-1/2 x 10-3/4	1.71

10-Pocket Tool Pouch

- Leather construction.
- Stitched and riveted.



Cat. No	Pockets	Specialty Add-Ons	Belt Connection	Belt Width	Overall Size (in)	Weight (lb)
5165	10	knife snap	slotted	2	10 x 10	1.26

Klein Tools

10-Pocket Tool Pouch

- Leather construction.
- Versatile pouch favored by many telephone installers.
- Riveted throughout to assure long life.
- Ten separate compartments with places for a wide variety of pliers, screwdrivers, and other tools.
- Slotted-leather tape thong (allows easy removal of 1" I.D. tape rolls).

Cat. No	Pockets	Specialty Add-Ons	Belt Connection	Belt Width	Overall Size (in)	Weight (lb)
5190	10	leather tape thong	slotted	1-3/4	6 x 8-3/4	.75



11-Pocket Tool Pouch

- Leather construction.
- Multi-pocketed pouch made for electricians and other professionals.
- Soft, pliable, and moisture-resistant to retain flexibility even after being wet and dried.
- Riveted and stitched.
- Stainless steel power-return tape holder clip (accommodates from 8' to 30' tapes).
- Heavy-duty chain tape thong securely fastened with a rivet.

Cat. No	Pockets	Specialty Add-Ons	Belt Connection	Belt Width	Overall Size (in)	Weight (lb)
5167	11	knife snap, chain tape thong, metal tape measure holder	slotted	2-3/4	10 x 10-1/2	1.43



8-Pocket Tool Pouch

- Soft, pliable, white leather.
- Roomy pouch for electricians, service men, and maintenance workers.
- Riveted and stitched for extra durability.
- Heavy-duty chain tape thong securely fastened with a rivet.

Cat. No	Pockets	Specialty Add-Ons	Belt Connection	Belt Width	Overall Size (in)	Weight (lb)
5178	8	knife snap, chain tape thong, metal tape measure holder	tunnel	2-1/2	11 x 10	1.03



7-Pocket Tool Pouch

- Soft, pliable, white leather.
- Moisture-resistant to retain flexibility even after being wet and dried.
- Riveted to assure long life.

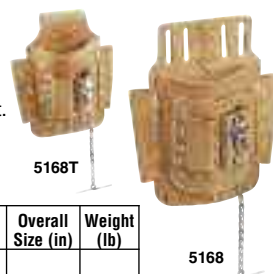
Cat. No	Pockets	Specialty Add-Ons	Belt Connection	Belt Width	Overall Size (in)	Weight (lb)
5166	7	chain tape thong	tunnel	2-1/4	7 x 9-1/2	.19



6-Pocket Tool Pouch

- Leather construction.
- Extra-spacious tool carrier.
- Contoured to fit the hip for added comfort.
- Riveted to assure long life.
- Heavy-duty chain tape thong securely fastened with a rivet.

Cat. No	Pockets	Specialty Add-Ons	Belt Connection	Belt Width	Overall Size (in)	Weight (lb)
5168	6	knife snap, metal tape thong	slotted	2	9 x 11	1.00
5168T	6	knife snap, metal tape thong	tunnel	2	9 x 11	1.10



5-Pocket Tool Pouch

- Leather construction.
- Curved to fit the hip for added comfort.
- Riveted to assure long life.

Cat. No	Pockets	Specialty Add-Ons	Belt Connection	Belt Width	Overall Size (in)	Weight (lb)
5150	5	knife strap	slotted	2-1/4	8-1/2 x 9-1/4	.60



Single Pocket Small Tool Pouch

- A convenient means of keeping track of small, easily lost tools.
- Can be hooked on belt or slipped in almost any pocket.
- Riveted and stitched for extra durability.
- Leather construction.

Cat. No	Pockets	Belt Connection	Belt Width	Overall Size (in)	Weight (lb)
5175	1	flap snaps back to form loop	3	4-3/4 x 7	.30



6-Pocket Nail/Screw and Tool Pouch

- Heavy hammer-loops on both sides, allowing for convenient use by right- or left-handed workers.
- Riveted and stitched for extra durability.
- Leather construction.

Cat. No	Pockets	Specialty Add-Ons	Belt Connection	Belt Width	Overall Size (in)	Weight (lb)
42241	6	two hammer loops	tunnel	3	11 x 11-3/4	.86



One-Piece Nail/Screw and Tool-Pouch Apron

- Leather construction, riveted and stitched for extra durability.
- Versatile, roomy double-pouch apron for construction workers, carpenters, and other professionals.
- Double-pouch design allows unrestricted leg movement.
- Apron is reinforced throughout with rust-proof rivets.
- Heavy-duty 2-1/4" wide web belt has army-style buckle, snap and slides.
- The large pockets and nail/bolt pockets have rolled-over, doubled edges for long wear.
- Four slots for punches or nail sets.
- Two heavy hammer loops.

Cat. No	Pockets	Specialty Add-Ons	Belt Connection	Belt Width	Overall Size (in)	Weight (lb)
42242	10	two hammer loops	tunnel	3	11 x 11-3/4	.86



Nail/Screw and Tool-Pouch Combination

- Leather construction.
- Large pockets have rolled-over doubled edges for extra-long life.
- All pouches slide along belt for convenient working position.
- Left and right-hand nail-and-tool pouches.
- Fully adjustable polyweb belt (32" - 48").
- Tape-rule holder for 20" and 25" tape measures with belt clips.
- Heavy hammer loops.

Cat. No	Description	Weight (lb)
42244	Complete combination: belt (No. 5225), left-hand (No. 42246) and right-hand (No. 42245) nail-and-tool pouches, and tape-rule holder (No. 5195).	2.02
42245	Right-hand nail and tool pouch only. Tunnel loop fits any belt up to 3"	.70
42246	Left-hand nail and tool pouch only. Tunnel loop fits any belt up to 3"	.72
5225	2" Poly-web belt only. Adjustable from 32" to 48"	.60
5195	Tape-rule holder for 20" and 25" tape measures	.18



Hand Tools

Klein Tools

Hammer Holder

- Leather construction.
- Heavy-metal hammer loop riveted to panel.
- Riveted and stitched for extra durability.
- Holds all hammers except lineman's.



Cat. No	Belt Connection	Belt Width	Overall Size (in)	Weight (lb)
5456	slotted	up to 2-1/2"	4-5/16 x 7-7/8	.33
5456T	tunnel	up to 4"	4-5/16 x 10	.42
5456TS	tunnel	up to 4"	4-5/16 x 10	.42

Pocket-Knife Holder

- Leather construction.
- Designed for sportsman knives and Klein Cat. No. 44137.
- Snap closure.
- Corners riveted and stitched for extra durability.



Cat. No	Belt Connection	Belt Width	Overall Size (in)	Weight (lb)
5186	loop on back	up to 2-1/2"	2-1/4 x 5-3/4	.18

Knife Holder

- Leather construction.
- Designed for utility knives and Klein Cat. Nos. 44100 and 44105.
- Corners riveted and stitched for extra durability.



Cat. No	Belt Connection	Belt Width	Overall Size (in)	Weight (lb)
5185	slotted	up to 2-1/2"	2-5/8 x 8-1/4	.11

Tape-Rule Holder

- Leather construction.
- Cut-out sides for easy access to tape.
- Slotted for attaching to belts up to 2-1/2" wide.
- Riveted to assure long life.



Cat. No	Belt Capacity	Description	Overall Size (in)	Weight (lb)
5194	up to 2-1/2"	holds small rules	4 x 6	.16
5195	up to 2-1/2"	holds medium rules	4-1/2 x 7	.18
5196	up to 2-1/2"	holds large rules	5 x 7	.21

Plier's Holders – Open Bottom

- Leather construction, riveted to assure long life.
- Long-nose pliers may protrude through opening at bottom.
- 5107-6: Holds 6" or 7" long-nose or diagonal-cutting pliers.
- 5107-9: Holds 8" or 9" long-nose or diagonal-cutting pliers.



Cat. No	Belt Connection	Belt Width	Overall Size (in)	Weight (lb)
5107-6	slotted	up to 8"	3-1/2 x 8-1/2	.17
5107-9	slotted	up to 2"	3-3/4 x 11	.26

Plier's Holders – Closed Bottom

- Leather construction.
- Nose of pliers does not protrude from closed bottom.
- Bottom is vented to prevent collection of dirt or water.
- Riveted to assure long life.
- Holds 7", 8", or 9" side-cutting pliers.



Cat. No	Belt Connection	Belt Width	Overall Size (in)	Weight (lb)
5112	slotted	up to 2"	3-1/4 x 11	.21

Scissors Holder — Tunnel

- Leather construction.
- Designed for electrician's scissors, industrial shears, snips and bent trimmers.
- Riveted and stitched for extra durability.
- Tunnel loop fits belts up to 2" wide.



Cat. No	Belt Connection	Belt Width	Size	Weight (lb)
5100M	tunnel	up to 2"	medium	3.2
5100L	tunnel	up to 2"	large	4.0

Scissors Holder — Slotted

- Leather construction.
- Riveted with clip on back for attaching to belt.
- Designed to hold electrician's scissors.
- Riveted to assure long life.



Cat. No	Belt Connection	Belt Width	Size (in)	Weight (lb)
5101	slotted	up to 1-1/2"	2 x 7	.11

Scissors and Cable-Splicer's Knife Holder

- Leather construction.
- Specially designed to hold a pair of electrician's scissors and cable-splicer's knife.
- Riveted and stitched for extra durability.



Cat. No	Belt Connection	Belt Width	Overall Size (in)	Weight (lb)
5187	slotted	up to 2-1/4"	2 x 7-1/4	.11
5187T	tunnel	up to 2-1/4"	2 x 7-1/4	.13

Lineman's Knife Holder

- Leather construction.
- Designed for Klein skinning knives Cat. Nos. 1570-3, 1570-3LR and 1560-3.
- Riveted to assure long life.



Cat. No	Belt Connection	Belt Width	Overall Size (in)	Weight (lb)
5163	slotted	up to 2"	3-1/2 x 9-3/8	.21

Cable-Splicer's Knife Holder

- Leather construction.
- Designed for Klein skinning knives Cat. Nos. 1570-3, 1570-3LR and 1560-3.
- Riveted to assure long life.



Cat. No	Belt Connection	Belt Width	Overall Size (in)	Weight (lb)
5188	slotted	up to 2-1/4"	2-1/8 x 7-3/4	.08
5188T	tunnel	up to 2-1/4"	2-1/8 x 7-1/4	.11

Pliers, Folding Rule, Screwdriver and Wrench Holder

- Leather construction.
- No exposed rivets in back.
- Riveted to assure long life.
- Pockets for 7", 8", and 9" side-cutting pliers, most screwdrivers, 6' folding rules, and open end wrenches from 9/16" to 13/16".
- Nickel plated alloy snap.



Cat. No	Belt Connection	Belt Width	Overall Size (in)	Pockets	Weight (lb)
5118C	slotted	up to 2"	6-1/2 x 11	4	.78

Klein Tools

Pliers, Rule and Screwdriver Holder

- Leather construction.
- 3 pockets for pliers, folding rule and screwdriver.
- Riveted to assure long life.
- Pockets for 7", 8", and 9" side-cutting pliers, most screwdrivers, 6' folding rules, and open end wrenches from 9/16" to 13/16".
- S5118PRS: Has a two-way knife snap.

Cat. No	Belt Connection	Belt Width	Overall Size (in)	Pockets	Weight (lb)
5118PRS	slotted	up to 2"	6-3/4 x 20	3	.49
S5118PRS	slotted	up to 2"	6-3/4 x 20	3	.56



4 & 5 Pocket Lineman's Pouches

- Leather construction with double leather back for durability.
- Rivet hole for belt connection.
- Riveted to assure long life.
- Includes knife snap, pockets for pliers, most screwdrivers, 6' folding rule and open ended wrenches.

Cat. No	Belt Connection	Overall Size (in)	Pockets	Weight (lb)
5118P5	rivet hole	10 x 11	5	1.13
5118P4	rivet hole	8 x 11	4	.91



Pliers and Folding Rule Holder

- Leather construction.
- Riveted to assure long life.
- Pockets for 7", 8", or 9" side-cutting pliers and 6-ft. folding rule.

Cat. No	Belt Connection	Belt Width	Overall Size (in)	Pockets	Weight (lb)
5118R	slotted	up to 2"	4-3/4 x 8	2	.43
5118RT	tunnel	up to 3-3/4"	4-1/2 x 12-1/2	2	.50



Pliers and Screwdriver Holder

- Leather construction.
- Riveted to assure long life.
- Pockets for 7", 8", or 9" side-cutting pliers and most screwdriver sizes.

Cat. No	Belt Connection	Belt Width	Overall Size (in)	Pockets	Weight (lb)
5118S	slotted	up to 2"	4-1/4 x 10-3/4	2	.35



Erection Wrench Holder

- Leather construction.
- Has tool-slots for two erection wrenches.
- Holds erection wrenches and adjustable head construction wrench Cat. No. 3239.

Cat. No	Belt Connection	Belt Width	Overall Size (in)	Weight (lb)
5460	slotted	up to 2"	6 x 8-1/2	.19
5459T	tunnel	up to 3-1/2" or to slide over D-rings, buckles, and other accessories	6x 9-1/2	.32



Erection Wrench Holder

- Cotton web tunnel loop and leather construction.
- Holds two erection wrenches.
- Riveted to assure long life.
- Holds erection wrenches and adjustable head construction wrench Cat. No. 3239.

Cat. No	Belt Connection	Belt Width	Overall Size (in)	Weight (lb)
5461	tunnel	up to 2"	6 x 10	.26



Bull-Pin Holder

- Leather construction.
- Holder for Klein bull pins.
- Riveted to assure long life.
- Holds all standard bull pins.

Cat. No	Belt Connection	Belt Width	Overall Size (in)	Weight (lb)
5417	slotted	up to 2"	3-1/4 x 11	.22
5417T	tunnel	up to 3-1/2"	3-1/4 x 12-1/4	.32



Flashlight Holder

- Leather construction.
- Designed for a standard two-cell flashlight.
- Riveted to assure long life.

Cat. No	Belt Connection	Belt Width	Overall Size (in)	Weight (lb)
5429	slotted	up to 2-1/4"	3 x 9-1/2	.22



Snap Loop

- Leather construction.
- Designed for tools with hang holes.
- Loop with snap hook for carrying an adjustable wrench, welder's igniter or other tool with hang hole.
- Riveted to assure long life.

Cat. No	Belt Connection	Belt Width	Overall Size (in)	Weight (lb)
5458	slides on	up to 4"	1-1/2 x 8-1/2	.15



Lightweight Utility Belt

- Strong, lightweight, synthetic-web.
- Quickly adjusts for waist sizes through 52".
- Accepts tunnel-loop and slotted pouches and holders.
- Tough, molded, non-metallic, slide-action buckle provides single-handed, quick release and adjustment.

Cat. No	Color	Size	Weight (lbs)	Width (in)
5204	blue	one size fits all	.20	2
5204BLK	black	one size fits all	.20	2



General-Purpose Belt

- Strong, heavy-duty leather.
- Removable single-tongue buckle held by two heavy-duty snaps.

Cat. No	Size (in)	Weight (lbs)	Width (in)
5202M	32-40	.40	1-1/2
5202L	38-46	.45	1-1/2
5202XL	46-54	.50	1-1/2



Lightweight Tool Belt

- Leather construction.
- Designed to carry lightweight tool pouches.

Cat. No	Size (in)	Weight (lbs)	Width (in)
5201	33-45	.30	1



Heavy-Duty Embossed Tool Belt

- Strong, heavy-duty leather.
- Equipped with a double-tongue buckle.

Cat. No	Size (in)	Weight (lbs)	Width (in)
5415S	32-40	.63	2
5415	36-44	.64	2
5415L	40-48	.64	2
5415XL	44-52	.65	2



Hand Tools

Klein Tools

Electrician's Web Tool Belt

- Includes leather tool loop and chain tape thong.
- Lightweight web belt.
- Friction buckle.

Cat. No	Size (in)	Weight (lbs)	Width (in)
5227M	32-40	.39	1-1/2
5227L	40-48	.40	1-1/2
5227XL	48-56	.42	1-1/2



Electrician's Leather Tool Belt

- Leather construction.
- Includes tool loops and chain-tape thong.

Cat. No	Size (in)	Weight (lbs)	Width (in)
5207M	32-40	.50	1-1/2
5207L	38-46	.55	1-1/2
5207XL	46-54	.60	1-1/2



Ironworker's Heavy-Duty Tie-Wire Belt

- Leather construction.
- Rugged 2" wide belt.
- Has separate reel-strap with its own buckle that lets you quickly and conveniently put on or take off a Klein tie-wire reel and optional pad without removing the belt or your tool pouch.
- Strong double-tongue buckle with keeper.
- Embossed basket-weave pattern.

Cat. No	Belt Size Range (in)	Waist Size (in)	Weight (lbs)	Width (in)
5420S	32-40	36	.85	2
5420	36-44	40	.95	2
5420L	40-48	44	1.05	2
5420XL	44-52	48	1.15	2



Leather Suspenders

- Soft leather work-belt suspenders.
- Adjustable loops at the end of all three straps to permit use on any width Klein belt.
- Fully adjustable front and back for added comfort.
- Item # 5413



TOOL BAGS

Canvas Tool Bag

- Heavy-duty No. 8 natural canvas.
- Rivet-reinforced for durability.
- Steel-frame mouth with hinge for rugged use.
- Stitched and riveted leather handles for comfort and strength.
- Two retaining straps with buckles provide secure closure.
- Moisture-resistant, vinyl bottom, and lower sides.
- Non-scratch studs on base protect against wear.
- Retro-fit bags with shoulder strap kit (Cat. No. 5102S). Kit includes leather strap with pad and snap hooks, rings and fasteners for attaching rings to bags.

Cat. No	Depth (in)	Length (in)	Width (in)	Weight (lbs)
5102-12	10	12	6	2.14
5102-14	14	14	6	2.55
5102-16	14	16	6	3.05
5102-18	14	18	6	2.84
5102-20	15	20	6	3.16
5102-22	15	22	6	3.48
5102-24	15	24	6	4.10



High-Bottom Canvas Tool Bag

- Heavy-duty No. 8 natural canvas.
- Bottom and 8" of lower sides are covered with moisture-resistant vinyl.
- Non-scratch studs on base protect against wear.
- Steel-frame mouth with hinge for rugged use.
- Harness-leather handles with two retaining straps and buckles.
- Retro-fit bags with shoulder strap kit (Cat. No. 5102S). Kit includes leather strap with pad and snap hooks, rings and fasteners for attaching rings to bags.

Cat. No	Depth (in)	Length (in)	Width (in)	Weight (lbs)
5105-20	15	20	6	3.55
5105-22	15	22	6	3.80
5102-24	15	24	6	4



Canvas Tool Bag – with Leather Bottom

- Includes shoulder strap mounts, external pocket, leather bottom and 3" of sides covered with black leather, 2" wide web handles, leather handle wrap, and external tool loop handle in the webbing.
- Bottom is protected from the elements by 6 studs.
- Steel frame mouth with hinge for rugged use.
- Reinforced leather bottom supports heavy tools, blocks moisture, and provides durability at wear points.
- Wide opening provides easy access to large tools.
- Internal pockets in a variety of sizes.
- External pocket for additional carrying needs.
- Constructed of strong No. 8 natural canvas.

Cat. No	Depth (in)	Length (in)	Width (in)	Weight (lbs)
5003-16	14	16	6	3.34
5003-18	14	18	6	4.14
5003-20	15	20	6	4.38



Canvas Tool Bag

- Heavy-duty No. 6 natural canvas.
- Double-layer canvas bottom.
- Reinforced, riveted web handles

Cat. No	Depth (in)	Length (in)	Width (in)	Weight (lbs)
5155	12	17	9	1.56
5156	15	19	9	1.82



Extra-Large Nylon Equipment Bag

- Nylon-web handles extend around bag for extra support.
- Wide opening steel frame is securely riveted in top of bag.
- Orange vinyl-coated nylon fabric bag.
- Bottom extends 3" up the sides.
- Bottom of bag is protected by metal studs.
- Bottom reinforced with 1/4" plywood.
- Extra flap for storm protection.

Cat. No	Depth (in)	Length (in)	Width (in)	Weight (lbs)
5180	18	24	10	6



Ten-Compartment Drawstring Bag

- 12-oz. olive canvas.
- 10 compartments to hold small parts.
- Drawstring for easy closing.

Cat. No	Depth (in)	Diameter (in)	Weight (lbs)
5151	6	11	.41



Tradesman Pro™ Organizers

- Orange interior for easy tool visibility.
- 1680d ballistic weave for durability.
- Every bag has feet or a molded bottom to protect your tools from outside elements.

Tradesman Pro™ Shoulder Pouch

- 16 pockets for better tool storage.
- Tough, durable rubber feet protect from the elements.
- Shoulder strap and handle for easy carrying.

Cat. No	Exterior Pockets	Interior Pockets	Height (in)	Length (in)	Width (in)	Weight (lb)
55419-SP	7	9	10	8	5	2.2



Tradesman Pro™ 8-Inch Tote

- 20 pockets for greater tool storage.
- Removable zipper bag designed to fit compartment underneath.
- Tough, durable feet protect from the elements.
- Handle for easy carrying.

Cat. No	Exterior Pockets	Interior Pockets	Height (in)	Length (in)	Width (in)	Weight (lb)
55415-8	7	9	17	8	8	4.77



Tradesman Pro™ 10-Inch Tote

- 40 pockets for maximum tool storage.
- Removable zipper bag designed to fit compartment underneath.
- Tough, durable feet protect from the elements.
- Shoulder strap and handles for easy carrying

Cat. No	Exterior Pockets	Interior Pockets	Height (in)	Length (in)	Width (in)	Weight (lb)
55416-10	22	18	12	10	10	5.16



Tradesman Pro™ Backpack

- 39 pockets for tons of tool storage.
- Wide opening fits power drills, meters, flashlights, etc.
- Tough, durable molded bottom protects from the elements.
- Large front pocket easily fits fish tapes.

Cat. No	Exterior Pockets	Interior Pockets	Height (in)	Length (in)	Width (in)	Weight (lb)
55421-BP	5	34	18	14	7	5.34



Tradesman Pro™ Ultimate Electrician's Bag

- 55 pockets for ultimate tool storage.
- Wide opening fits power drills, meters, laptops, etc.
- Tough, durable molded bottom protects from the elements.
- Shoulder strap and handles for easy carrying.

Cat. No	Exterior Pockets	Interior Pockets	Height (in)	Length (in)	Width (in)	Weight (lb)
55418-19	53	2	14	17.5	10	8.92



Tradesman Pro™ Extreme Electrician's Bag

- 78 pockets for extreme tool storage.
- Wide center with removable pockets for easy access to tools.
- Tough, durable molded bottom protects from the elements.
- Shoulder strap and handles for easy carrying.

Cat. No	Exterior Pockets	Interior Pockets	Height (in)	Length (in)	Width (in)	Weight (lb)
55417-18	25	53	16	19	6.5	9.51



Canvas Buckets

- Rope handle reinforced with leather for water resistance and strength.
- Durable, straight-wall and tapered-wall buckets are made of heavy-duty canvas.
- High-density polyethylene top ring for strength and chemical resistance.
- The No. canvas refers to the canvas weight. No. 1 being the thickest and No. 8 being the thinnest.

Leather-Bottom Bucket

- No. 1 canvas.
- Leather-reinforced bottom extends 3" up the sides.
- Inside pocket measures 8" x 8".
- Rope handle.

Cat. No	Diameter (in)	Height (in)	Extra Features	Weight (lb)
5104	12	17	—	2.71
5104S	12	17	swivel snap	2.93



Straight-Wall Buckets

- No. 6 canvas.
- Black molded polypropylene bottom.
- Rope handle.

Cat. No	Diameter (in)	Height (in)	Extra Features	Weight (lb)
5106	9	14	—	1.51
5106P	9	14	two 7" x 7" inside pockets	1.62
5106S	9	14	swivel snap	1.80



Wide-Opening Straight-Wall Bucket

- No. 6 canvas.
- Black molded polypropylene bottom.
- Rope handle.

Cat. No	Diameter (in)	Height (in)	Extra Features	Weight (lb)
5109	12	15	—	2.06
5109P	12	15	one 8" x 8" inside pocket	2.12
5109S	12	15	swivel snap	2.35
5109PS	12	15	one 8" x 8" inside pocket and swivel snap	2.40



Tapered-Wall Bucket

- No. 6 canvas.
- Black molded polypropylene bottom.
- Rope handle.

Cat. No	Bottom Diameter	Top Diameter	Height (in)	Extra Features	Weight (lb)
5113	9	12	13	—	1.55
5113S	9	12	13	swivel snap	1.84



Heavy-Duty Tapered-Wall Bucket 4 Outside Pockets

- Riveted leather glove strap.
- Tapered-wall buckets
- Tough No. 4 canvas.
- Equipped with swivel snap hook.
- Black molded polypropylene bottom.
- Rope handle.



Cat. No	Bottom Diameter	Top Diameter	Height (in)	Description	Weight (lb)
5171PS	9	12	12	swivel snap, 4 outside pockets	2.20
5172PS	9	12	12	swivel snap, 15 inside pockets	2.35

Hand Tools

Klein Tools

Heavy-Duty Tapered-Wall Bucket

- Riveted leather gyle strap.
- Tough No. 4 canvas.
- Comes with Cat. No. 2012 swivel snap.
- Black molded polypropylene bottom.
- Rope handle.

Cat. No	Bottom Diameter	Top Diameter	Height (in)	Extra Features	Weight (lb)
5103S	9	12	12	swivel snap	1.95



Oval Bucket with 41 Pockets

- 26 pockets inside and 15 pockets outside.
- No. 6 canvas.
- Tripod suspension rope for greater stability.
- Equipped with Cat. No. 2012 swivel snap hook.
- Black molded polypropylene bottom.

Cat. No	Length (in)	Width (in)	Height (in)	Extra Features	Pockets	Weight (lb)
5152S	14	7	12	swivel snap	26 inside, 15 outside pockets	2.46



Oval Bucket with 15 Interior Pockets

- No. 6 canvas.
- Tripod suspension for greater stability.
- Equipped with Cat. No. 2012 swivel snap hook.
- Black molded polypropylene bottom.
- Rope handle.

Cat. No	Length (in)	Width (in)	Height (in)	Extra Features	Pockets	Weight (lb)
5144S	14	7	10	swivel snap	15 inside pockets	2.17



Aerial-Basket Oval Bucket with 15 Interior Pockets

- No. 6 canvas.
- ABS hooks are resistant to temperature changes.
- Supplied with two Cat. No. 5144H hooks.
- Black molded polypropylene bottom.
- Replacement hooks available Cat. No. 5144H.

Cat. No	Length (in)	Width (in)	Height (in)	Extra Features	Pockets	Weight (lb)
5144	14	7	10	two ABS hooks	15 inside pockets	2.07
5144B	14	7	10	—	15 inside pockets	1.5



Line-Hose Bag

- No. 6 canvas with Cicolac top ring and molded bottom.
- Large enough to accommodate several pieces of hose.
- Can also be used to raise protective rubber blankets that are rolled.
- Leather cuff extends 3" up the side.
- Polypropylene rope handle is reinforced with leather.

Cat. No	Depth (in)	Diameter (in)	Length (in)	Weight (lb)
5110-48	48	7	48	1.91



Canvas Electrode Bag

- Made of tough No. 4 canvas.
- Heat-resistant, hard-leather bottom.
- Web loop for sliding over belt.

Cat. No	Back Depth (in)	Front Depth (in)	Diameter (in)	Weight (lb)
5471	15-1/2	12	2-1/2	.25



Bull-Pin and Bolt Bag - Canvas

- No. 4 canvas with double bottom.
- Bolt bag with bull-pin loop on each side.
- 5416L is the leather version.

Cat. No	Belt Capacity	Belt Connection	Depth (in)	Length (in)	Width (in)	Weight (lb)
5416	up to 3"	loops	10	5	9	.85
5416T	up to 3"	tunnel	10	5	9	.90
5416L	up to 3"	loops	10	5	9	1.10



Canvas Utility Bag

- Heavy No. 8 canvas.
- Top edge reinforced with 1/4" rope.
- Metal snaps provided on loops for easy attachment to belts up to 3" wide.
- Ventilating eyelet in bottom.
- 5142P includes interior pocket.

Cat. No	Belt Capacity	Belt Connection	Top Opening	Length (in)	Width (in)	Weight (lb)
5142	up to 3"	loops	8 X 3	9	10	.60
5142P	up to 3"	loops	8 x 3	9	10	.65



Leather Bolt Bag

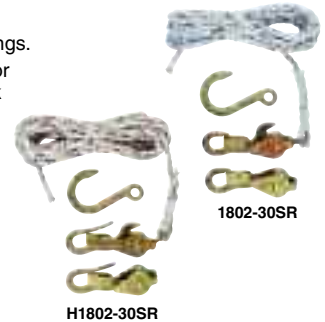
- Leather construction.
- Bolt bag with bull-pin loop on each side.

Cat. No	Belt Capacity	Belt Connection	Depth (in)	Length (in)	Width (in)	Weight (lb)
42247	up to 3"	tunnel	8-1/2	5	8-1/2	.75



Block & Tackle

- These are NOT occupational protective hooks. NOT for human support.
- Light, galvanized-steel shell blocks are fitted with snubbing hooks to hold the load.
- Sheaves are strong yet lightweight aluminum alloy with all-bronze bushings.
- Available with standard snap hooks or guarded snap hooks (with snap hook nose lengthened to extend over latch or keeper).
- Choice of forged hook Cat. No. 258 or swivel hook Cat. No. 259.
- Hooks fit under insulator and engage pin on cross-arm.
- All Klein block and tackle use high-quality, 3/8" diameter rope.
- Maximum safe load is 750 lbs.

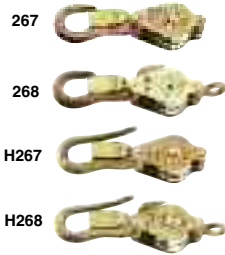


Cat. No	Description	Weight (lb)
1802-30	Blocks with standard snap hooks. Furnished with 25' of 3/8" rope. Has Cat. No. 267 block with snap hook and a detachable forged anchor hook (Cat. No. 258) on one end, and block Cat. No. 268 with eye and rope tie-off on other end.	2.80
1802-30SR	Same as Cat. No. 1802-30, but with rope spliced to Cat. No. 268 block	2.80
1802-30S	Same as Cat. No. 1802-30, except supplied with a detachable swivel anchor hook (Cat. No. 259) instead of hook Cat. No. 258	2.85
1802-30SSR	Same as Cat. No. 1802-30S, but with rope spliced to Cat. No. 268 block	
Blocks with Guarded Snap Hooks		
H1802-30	Blocks w/guarded snap hooks, 25' of 3/8" rope. Has Cat. No. H267 block w/guarded snap hook and a detachable forged anchor hook (Cat. No. 258) on one end and block Cat. No. H268 (w/guarded snap hook, eye and rope tie-off hook) on other end.	2.90
H1802-30SR	Same as Cat. No. H1802-30, but with rope spliced to Cat. No. H268 block	2.90
H1802-30S	Same as Cat. No. H1802-30, except supplied with a detachable swivel anchor hook (Cat. No. 259) instead of hook Cat. No. 258	3.00
H1802-SSR	Same as Cat. No. H1802-30S, but with rope spliced to Cat. No. H268 block	3.00

Klein Tools

Blocks without Ropes and Hooks

Cat. No	Description	Weight (lb)
267	Plain block made of light galvanized steel and aluminum alloy. Sheaves have bronze bushings.	.76
268	Same as Cat. No. 267, but with eye to splice line to block and rope tie-off	.91
H267	Same as Cat. No. 267, but nose extends over keeper	.80
H268	Same as Cat. No. 268, but nose extends over keeper	1.00



Anchor Hook

- Forged hook is designed to slip under insulator and engage pin of cross arm.
- Maximum safe load 750 lbs. (340 kg).
- Standard on Klein block & tackle Cat. Nos. 1802-30 and H1802-30.

Cat. No	Eye I.D. (in)	Overall Length (in)	Throat Opening (in)	Weight (lb)
258	5/8	5-1/2	1-7/8	.42



Swivel Anchor Hook

- Swivel clevis on this forged hook will engage with snap on Klein block & tackle Cat. Nos. 1802-30 and H1802-30.
- Swivel prevents twisting and kinking of rope.
- Maximum safe load 750 lbs. (340 kg).

Cat. No	Swivel Opening	Overall Length (in)	Throat Opening (in)	Weight (lb)
259	1-3/16 x 1	6-1/2	1-7/8	.40



Rebar Hickey

- Lightweight rebar hickey has exceptionally durable steel-alloy head and extra-strong handle to withstand punishing service conditions.

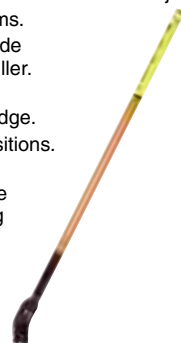
Cat. No	Bends Rebar Size	Handle Length (in)	Head Type and Bending Angle	Hickey Size	Weight (lb)
64309	#3 & 4	24	double 65° and 90°	1a	3.50
64310	#5	40	single 65°	2	7.50
64311	#6	40	single 65°	3	8.00
64312	#7, 8 & 9	60	single 65°	4	16.40



Grizzly™ Bar

- A heavy, strong, multi-purpose tool that saves time and effort on the job.
- The 3" width protects concrete when stripping forms.
- Efficient blade angle and 55-1/2" total length provide high leverage as a crow bar and nail and spike puller.
- Blade is forged and hardened alloy with keyhole nail-pulling slot in center and V-notch in tapered edge.
- Very efficient nail-pulling tool even in awkward positions.
- Can also be used to help align walls during tilt-up construction, to roll and align large pipe, to remove shingles and flooring, and for many other stripping and prying tasks.

Cat. No	Overall Length (in)	Weight (lb)
64306	55-1/2	12.00



BULL PINS

Broad-Head Bull Pin

- Forged, heat-treated bull pin increases efficiency by providing a larger striking surface.
- Head design also reduces chance of pin slipping from the hand when aligning holes.
- Angled head and smooth blending of radii increase strength and reduce the danger of chipping.
- Below the head, squared-off shoulders have been forged to provide a surface for applying wrench to loosen wedged bull pins.
- Long, even taper reduces binding and hang-up.
- Added resistance to "mushrooming" permitting much longer use than is possible with conventional designs.
- Heat-treated for strength.
- Black finish for rust resistance.



Cat. No	Length (in)	Point Diameter (in)	Top Diameter (in)	Weight (lb)
3255	13-3/4	5/16	1-1/4	2.90
3256	10	1/4	1-1/16	1.60

Standard Bull Pin

- Machined from quality alloy steel.
- Standard design offers greater initial economy, but no added protection against mushrooming.
- Heat-treated for strength.
- Black finish for rust resistance.



Cat. No	Length (in)	Point Diameter (in)	Top Diameter (in)	Weight (lb)
3251	15	3/8	1-1/16	2.50
3252	15	7/16	1-3/16	3.10
3257	12	3/8	1-1/16	1.70
3258	12	7/16	1-3/16	2.10
3259	12	7/16	1-5/16	2.50
3265	12	7/16	1-1/4	2.50

DRIFT PINS

Barrel-Type Drift Pin

- Machined from quality alloy steel.
- Tapers are uniform and blend into body diameter.
- Tough, forged steel will properly end-pein in use.
- Heat-treated for strength.
- Black finish for rust resistance.



Cat. No	Length (in)	Point Diameter (in)	Maximum Diameter (in)	Weight (lb)
3260	7-1/2	5/16	11/16	.60
3261	8	7/16	13/16	.85
3262	8	1/2	15/16	1.10
3263	8	9/16	1-1/16	1.50

RIPPING BARS

Carbon-Steel Ripping Bar

- Strong, high-carbon forged steel construction.
- Thinner straight claw for ripping has both "V" and keyhole nail pullers.
- Heat-treated claws for extra strength.
- Efficient, double-claw design.
- Baked-on black finish for rust resistance.
- Heavy 90° claw gets into tight spaces.
- Includes one "V" nail puller.

Cat. No	Overall Length (in)	Weight (lb)
66380	18	2.50

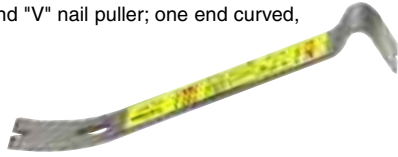


Hand Tools

Klein Tools

Spring-Steel Ripping Bar

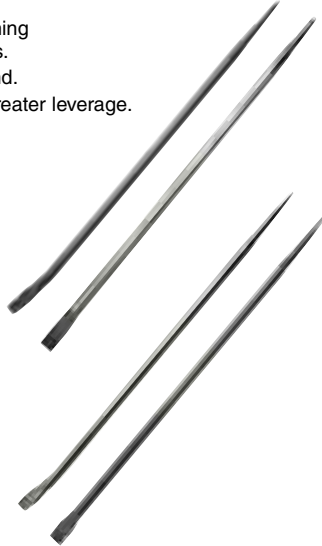
- Forged spring steel 1/4" thick and 1-1/2" wide.
- Fully heat-treated with sandblasted finish for better gripping.
- Both ends with pry edge and "V" nail puller; one end curved, the other at 90° angle.
- Keyhole nail-puller in body.



Cat. No	Overall Length (in)	Weight (lb)
66384	14	1.60

Connecting Bars

- Provides extra leverage when positioning steel members and aligning bolt holes.
- Forged fit-up bar is pointed on one end.
- Chisel-end is at a 15° angle to give greater leverage.



Cat. No	Hex Diameter (in)	Length (in)	Weight (lb)
Hexagonal Bars			
3242	3/4	30	3.5
3243	7/8	36	6.0
3244	3/4	24	2.5
Hexagonal Straight Chisel-End			
3240	3/4	30	3.8
Round Bars			
3245	3/4	30	3.3
3246	7/8	36	5.5
3247	3/4	24	2.5
3248	7/8	30	4.3
Round Straight Chisel-End			
3241	3/4	30	3.2

"CHICAGO® GRIPS"

Grips for Large Diameter Conductors

- Designed for hollow conductors and other large-diameter cables.
- Round jaws are shaped to provide maximum contact with the cable, virtually eliminating conductor damage.
- These grips are special order only. Please allow 30 days for delivery. These are not returnable.
- Orders must specify exact outside diameter of cables, circular mills with strand combination, or manufacturer's code.
- Each grip is made for one-size cable only.
- Minimum-maximum sizes listed indicate the unfinished size-range capability for each Cat. No. Each grip is finished to fit one specific cable size only within range shown.
- 1628-50 is furnished with removable floating jaw held in place by a bolt swaged into the lever arm of the grip, secured by a nut and cotter pin. Jaw must be removed to insert cable.



Cat. No	Approx. Wght Each (lb)	Jaw Length (in)	Maximum Cable (in)	Max Safe Load (lb)	Minimum Cable (in)
1628-16P	17	7-1/4	477,000 CM ACSR .88"	15,000	2 ACSR .31"
1628-30†	27	10-3/4	1,033,500 CM ACSR 1.24"	20,000	477,000 CM ACSR .85"
1628-40†	34	10-3/4	1,590,000 CM ACSR 1.54"	25,000	1,033,500 CM ACSR 1.24"
1628-50†	34	10-3/4	2,500,000 CM Alu. 1.82"	25,000	666,600 CM ACSR 1.00"

† Maximum safe stringing tension 12,500 lbs to minimize conductor damage.

Grip for Bare ACSR, Aluminum and Stranded-Copper Cables

- Round, smooth inside jaw contour on this series of grips is ideal for bare ACSR, aluminum, and stranded-copper cables.
- Smooth jaws grip with maximum contact and are less likely to damage conductors.



Cat. No	Approx. Wght Each (lb)	Jaw Length (in)	Maximum Cable (in)	Max Safe Load (lb)	Minimum Cable (in)
1656-20	3	4	1/0 ACSR .40"	4,500	6 ACSR .20"
1656-30	3.75	4-3/4	.53	4,500	2 ACSR .31"
1656-40	8.30	5-1/2	336,400 CM ACSR .74"	8,000	.53"
1656-50	8.30	5-1/2	477,000 CM ACSR .86"	8,000	397,500 CM ACSR .74"
1656-60	8.20	5-1/2	605,000 CM ACSR .96"	8,000	477,000 CM ACSR .86"

Grip for Aluminum Conductors

- Lightweight grips designed for use on aluminum conductors in distribution work.
- Round jaws shaped to provide maximum contact with circumference of cable, less likely to damage conductors.
- Supplied with spring and locking loop handles, allowing jaws to be held in open position for easier placement on cable.
- Can be supplied with hot-line latch on special order.



Cat. No	Approx. Wght Each (lb)	Jaw Length (in)	Maximum Cable (in)	Max Safe Load (lb)	Minimum Cable (in)
1678-20	8.30	5-11/16	1.02"	8,000	.96"
1678-30	8.20	5-11/16	1.08"	5,500	1.02"
1678-40	8.20	5-11/16	1.14	5,500	1.08"
1678-50	7.90	5-11/16	1.20	5,500	1.14"

Grip for Bare Wire

- Lightweight, especially economical grip.
- Designed for working with solid and stranded bare wire from .08" to .20".
- Single "V" groove jaw.



Cat. No	Approx. Wght Each (lb)	Jaw Length (in)	Maximum Cable (in)	Max Safe Load (lb)	Minimum Cable (in)
1613-30	1.50	3	4 B&S solid .20"	1,500	12 B&S solid .08"

Grip for Weatherproof Wire

- Round inside jaw contour for weatherproof coated wire.
- Notches in jaw provide firm grip on insulation.
- Note: Due to various types of weatherproof coatings available, selection of proper grips is determined by outside diameter of cable.



Cat. No	Approx. Wght Each (lb)	Jaw Length (in)	Maximum Cable (in)	Max Safe Load (lb)	Minimum Cable (in)
1611-20	3	4-3/16	.40	4,500	.20
1611-30	3.75	4-3/4	.53	4,500	.31
1611-40	7.75	5-11/16	.74	8,000	.53
1611-50	7.75	5-11/16	.88	8,000	.78

Grip for PVC-Covered Conductors

- Serpentine jaws are specially machined to allow insertion of insulated conductor through the jaws, which reduces danger of slippage which might result in insulation damage.
- Eliminates necessity of stripping insulation from conductor.
- Round inside-jaw contour.



Cat. No	Approx. Wght Each (lb)	Jaw Length (in)	Maximum Cable (in)	Max Safe Load (lb)	Minimum Cable (in)
1659-20	3	4-3/16	.42	4,500	.20
1659-30	3.75	4-3/4	.50	4,500	.31
1659-40	7.75	5-11/16	.79	8,000	.49
1659-50	7.75	5-11/16	1.01	8,000	.79

Klein Tools

Grip for Extra-High-Strength Cables, Messenger, Guy Strand and Conductors

- A family of grips for cable sizes from .12" to 1.0".
- Double "V" grooves give four-point contact, reducing chance of slipping and providing proper alignment of wire and cable.
- For larger conductors, see our grips with round inside-jaw contour.



Cat. No	Approx. Wght Each (lb)	Jaw Length (in)	Maximum Cable (in)	Max Safe Load (lb)	Minimum Cable (in)
1613-40	3	4-3/16	.37	4,500	.12
1684-5	6.25	5	.55	8,000	.218
1692-5	6.40	5	.55	8,000	.218
1684-5F*	6.25	5	.55	8,000	.16
1628-16	15.3	7-1/4	.62	15,000	.31
1628-17	16.3	7-1/4	.75	15,000	.50
1628-18	15.7	7-1/4	1.0	15,000	.75



* Similar to Cat. No. 1684-5 except with a file inserted in jaw for extra gripping power. Replacement file No. 578 and screws No. 573 are also available.

Parallel-Jaw Grip

- Lightweight, compact grips pull an exceptionally wide range of cable sizes and types.
- Designed with a round inside-jaw contour for maximum contact to minimize conductor damage.
- Lower jaw is serrated to firmly grip insulated cables and conductors.
- Design includes a latch that prevents the grip from falling in case of jaw disengagement from the cable.
- Large-diameter eye accommodates large hooks on hoists, winches and tackle blocks.



Cat. No	Approx. Wght Each (lb)	Jaw Length (in)	Maximum Cable (in)	Max Safe Load (lb)	Minimum Cable (in)
1685-20	3	2.50	.886	4,500	.157
1685-31	5	4.50	1.25	7,500	.625



Hot-Line Grips for Bare Conductors

- Hot-line grips for both bare and insulated conductors.
- Grip may be placed on wire with hot-line stick.
- When stick is removed, latch closes automatically to guard against grip accidentally disengaging from wire.
- Standard hot-line grips are not supplied with springs or lock-open features.
- When springs or lock-open features are desired, add prefix letter "S" before catalog number.



Cat. No	Approx. Wght Each (lb)	Jaw Length (in)	Maximum Cable (in)	Max Safe Load (lb)	Minimum Cable (in)
1613-40H†	3.20	4-3/16	1/0 B&S strand .37	4,500	8 B&S solid .12
1684-5H†	6.5	5	.55	8,000	.218
1656-20H*	3.2	4-3/16	1/0 ACSR .40	4,500	6 ACSR .20
1656-30H*	4	4-7/8	.53	4,500	2 ACSR .31
1656-40H*	8.5	5-1/2	336,400 CM ACSR .74	8,000	.53
1656-50H*	8.5	5-1/2	.86	8,000	.74
1656-60H*	8.4	5-1/2	605,000 CM ACSR .96	8,000	477,000 CM ACSR .86

† Has Double V inside-jaw contour, * Has Round inside-jaw contour

Curved-Jaw Grip for EHS Cable

- When pulling EHS (extra-high-strength) galvanized-steel cable, the galvanizing has a tendency to coat the jaws of any grip, causing the cable to slip.
- To reduce the possibility of slippage and damage to the cable, the jaws of this grip are milled on a curve with a double "V" contour



Cat. No	Approx. Wght Each (lb)	Jaw Length (in)	Maximum Cable (in)	Max Safe Load (lb)	Minimum Cable (in)
1684-74	6.3	5	.55	8,000	.218
S1684-74H*	6.5	5	.55	8,000	.218



* Hot-line latch and spring

Bell-System Type Grip

- 1684-5AT is identical to Bell-System type "L" strand puller.
- 1628-16AT is identical to Bell-System type "H" strand puller.
- Equipped with chain, toggle and shackle.
- For support wire .134 and larger, refer to 1659 series. Outside diameter of support wire includes thickness of polyethylene coating.



Cat. No	Approx. Wght Each (lb)	Jaw Length (in)	Maximum Cable (in)	Max Safe Load (lb)	Minimum Cable (in)
1684-5AT	6.90	5	.55	8,000	.218
1628-16AT	15.80	7-1/4	.62	15,000	.31
1692-5AT	6.60	5	.55	8,000	.218



"Type B" Strand Puller

- Similar to Bell-System type "B" strand puller.
- Designed to pull 1/4" figure-8 telephone cable.
- Serpentine grooves grip insulation on strand, preventing slippage.
- Equipped with chain, toggle, and shackle.

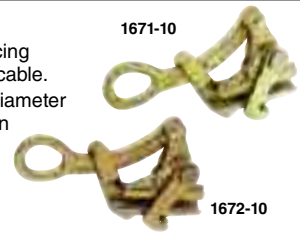


Cat. No	Approx. Wght Each (lb)	Jaw Length (in)	Maximum Cable (in)	Max Safe Load (lb)	Minimum Cable (in)
1659-5AT	6.70	5	.37	5,000	.20



Parallel-Jaw Grips

- Longer jaws achieve a firm hold, reducing possibility of slippage and damage to cable.
- Design includes a latch, plus a large-diameter eye that accommodates large hooks on hoists, winches and tackle blocks.
- When latch is closed, it helps maintain cable position in grip jaws.



Cat. No	Approx. Wght Each (lb)	Jaw Length (in)	Maximum Cable (in)	Max Safe Load (lb)	Minimum Cable (in)
1686-10	5	4-3/8	.40	10,000	.20
1671-10	5	4-3/8	.75	10,000	.37
1686-20*	5	4-3/8	.40	10,000	.20
1672-10*	5	4-3/8	.75	10,000	.37



*1672-10 is the same as Cat. No. 1671-10 but with knurled jaws.
1686-20 is the same as Cat. No. 1686-10 but with knurled jaws.

"Haven" Grips

- Designed for use when light, compact grip is desired and where conductor damage is not a factor.
- Gripping pressure of the knurled jaw is applied to 1/4" cable area.
- 1604-20L and 1625 series have a swing latch to help hold cable in jaw.



Cat. No	Approx. Wght Each (lb)	Maximum Cable (in)	Max Safe Load (lb)	Minimum Cable (in)
1604-10	1	2 B&S .25	2,500	14 B&S .06
1604-20	2.08	steel strand .50	5,000	8 B&S solid .125
1604-20L	2.08	steel strand .50*	5,000	8 B&S solid .125
1625-20	4	wire rope .75	8,000	1 B&S .28
1625-20-1	4	wire rope 1	8,000	.50
1625-20-7/8	4	wire rope .88	8,000	.38

Hand Tools

Klein Tools/Lewis®

AWG/B&S Wire Gauges

Diameter of American (AWG) or Brown & Sharpe (B&S) Wire Gauges

No. of Wire Gauge	American (AWG) or Brown & Sharpe (B&S) (in)	No. of Wire Gauge	American (AWG) or Brown & Sharpe (B&S) (in)	No. of Wire Gauge	American (AWG) or Brown & Sharpe (B&S) (in)
0000	.460	12	.0808	27	.0142
000	.40964	13	.072	28	.0126
00	.3648	14	.0641	29	.0113
0	.3648	15	.0571	30	.0100
1	.2893	16	.0508	31	.0089
2	.25763	17	.0453	32	.008
3	.22942	18	.0403	33	.0071
4	.2043	19	.0359	34	.0063
5	.1819	20	.032	35	.0056
6	.1620	21	.0285	36	.005
7	.1443	22	.0253	37	.0045
8	.1285	23	.0226	38	.0040
9	.1144	24	.0201	39	.0035
10	.1019	25	.0179	40	.0031
11	.0907	26	.0159		

Lewis®

Lewis Sealed Ball Bearing Directional Boring Swivel

Lewis Sealed Ball Bearing Directional Boring Swivels prevent equipment's rotational torque from interfering with the product being pulled. In a typical boring application, the swivel is attached behind the reamer head and to the pipe or cable being pulled through the bore. Permanently sealed to keep contaminants out, they never require lubrication.



Ball Bearing Part No.	Overall Length A (in)	Dia. of Pin B (in)	Jaw Opening C (in)	Overall Dia. D (in)	Working Load (lbs)
HD-00-S	4-1/4	5/16	3/8	7/8	1,500
HD-0-S	5-3/8	7/16	1/2	1-1/8	5,400
HD-1-S	6-1/8	1/2	5/8	1-7/16	9,000
HD-2-S	7-3/8	5/8	5/8	1-5/8	12,000

JL-R-Series Grips

The JL-R series is designed to be used in secondary light duty cable pulls. The neoprene cone at the front of the grip helps the grip and cable go around the tightest bends easily and smoothly. If installed properly, the cone can also help eliminate possible cable lubricant migration by sealing off the end of the cable during a pull.



Part No.	Size Range (in)	U.T.S. (lbs)	Working Load (lbs)	Eye (in)	Mesh (in)
XS-JL-25-R	1/4 - 1/2	1,200	600	3-1/2	6
XS-JL-50-R	1/2 - 3/4	2,500	1250	4	8
XS-JL-100-R	3/4 - 1	2,800	1400	4-1/2	10
XS-JL-125-R	1 - 1-1/2	4,500	2250	5-1/2	13

Warning:

- (1) Make a complete inspection of swivel before each use.
- (2) See that end pins match up properly and allen screw is in place.
- (3) Rotate swivel by hand to determine proper operation of bearings.
- (4) Test complete swivel frequently.
- (5) Do not alter or modify unit.

Swivel Eye Grips



The SEG Series are available with hardened steel rotating eyes. These eyes are durable, compact, and streamlined and will thread through blocks and sheaves without binding.



The rotating eye is not a ball bearing swivel and will not turn while under tension. It will turn to relieve pulling torque when the pulling tension is released. If a continual swivel movement is needed, a ball bearing swivel should be used.

Reference swivel usages per following 1-3 explanations:

1. HD series for overhead and high tension underground.
2. W series for standard underground pulling.
3. HD-S series when a high tension environment is anticipated, coupled with a need for a sealed swivel: ie. directional boring applications.

In addition, the SEG series can be customized to meet customer specifications. We offer the following options:

- A. Special mesh lengths. When a customer would like a different mesh length than the one specified on the SEG chart.
- B. Mesh available in three different types of wire for varying applications and environments: 1. Galvanized (standard) 2. Plastic coated galvanized 3. Stainless

All inquiries on custom made grips are given our prompt attention.

Part No.	Mesh Length (in)	Size Range (in)	Working Load (lbs)	Breaking Strength (lbs)	Dimension (in)				
					A	B	C	D	E
SEG-0	24	1/4 - 1/2	1,200	6,000	3-1/4	7/8	3/8	15/32	17/32
SEG-1	36	1/2 - 1	3,500	10,000	3-1/2	1	1/2	17/32	5/8
SEG-2	42	1 - 1-1/2	9,600	28,800	4-5/8	1-3/8	1/2	43/64	7/8
SEG-3	48	1-1/2 - 2	11,200	32,000	6-1/2	1-5/8	5/8	55/64	1
SEG-4	60	2 - 2-1/2	16,300	49,000	7-1/2	1-7/8	21/32	63/64	1-3/16
SEG-5	60	2-1/2 - 3	16,700	50,300	8	2	11/16	1-1/16	1-1/4
SEG-6	66	3 - 3-1/2	16,700	50,300	8	2	11/16	1-1/16	1-1/4
SEG-7	72	3-1/2 - 4	16,700	50,300	8	2	11/16	1-1/16	1-1/4
SEG-8	72	4 - 4-1/2	23,300	70,000	8-1/2	2-1/4	13/16	1-1/8	1-3/8
SEG-9	72	4-1/2 - 5	23,300	70,000	8-1/2	2-1/4	13/16	1-1/8	1-3/8
SEG-10	72	5 - 5-1/2	23,300	70,000	8-1/2	2-1/4	13/16	1-1/8	1-3/8

Flex-Eye Heavy Duty Grip

Here is a powerful grip for pulling big conductors and it will travel smoothly through pulleys. It is made of highest quality, flexible aircraft strand steel, integrated with a new flexible eye. The eye itself is composed of braided strands (rather than being rigid) to give it maximum flexibility in going around angle pulls or through small openings. Strands of the grip are retained at the head by a stainless steel spring, eliminating a rigid compression sleeve.



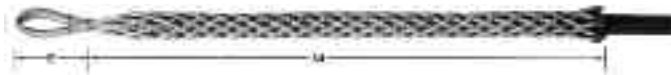
Part No.	Approx. Brk. Strgth (lb)	Working Load (lb)	Eye (in)	Mesh (in)
HDFE-1/4"-1/2"	3,700	1,200	4	22
HDFE-1/2"-7/8"	10,000	2,400	6	42
HDFE-7/8"-1 3/8"	28,000	5,700	7	48
HDFE-1 3/8"-2"	32,000	9,600	7	50
HDFE-2"-2 3/4"	49,000	11,500	7	52
HDFE-2 3/4"-3 1/2"	50,300	13,500	7	54
HDFE-3 1/2"-4 1/4"	65,400	15,300	7	56
HDFE-4 1/4"-5"	70,000	17,900	7	58
HDFE-5"-5 3/4"	70,000	17,900	7	60
HDFE-5 3/4"-6 1/2"	70,000	17,900	7	60

Lewis®

STANDARD PULLING GRIPS:

Model A&B Pulling Grips are manufactured of Hi-Fatigue plastic coated Aircraft Strand Steel cable in various weave designs. Recommended wherever high strength and small size are required. Patented pulling eye is flexible and stress relieving

Model A/Single, Double or Triple Weave 3/4" to 1-1/4"



Part No.	Size (in)	Work Load (lb)	Approx. Break Strgth (lb)	Weight (oz)	Weave	Mesh Length (in)	Eye (in)
A-SW-18	3/4 - 1-1/4	1,000	3,000	5-1/2	Single	18	3
A-SW-24	3/4 - 1-1/4	1,000	3,000	5-1/2	Single	24	3
A-DW-18	3/4 - 1-1/4	2,000	6,000	8-1/2	Double	18	3
A-DW-24	3/4 - 1-1/4	2,000	6,000	8-1/2	Double	24	3
A-TW-18	3/4 - 1-1/4	3,500	10,000	12	Triple	18	3
A-TW-24	3/4 - 1-1/4	3,500	10,000	12	Triple	24	3

Model B/Triple Weave - 1-1/4" to 2"



Part No.	Size (in)	Work Load (lb)	Approx. Break Strgth (lb)	Weight (oz)	Weave	Mesh Length (in)	Eye (in)
B-TW-26	1-1/4 - 2	2,500	7,500	1lb 1oz	Triple	26	3-1/4
B-TW-32	1-1/4 - 2	3,500	10,500	1lb 1oz	Triple	32	3-1/4

Model C, D, E & F are heavy duty grips manufactured of Hi-Fatigue plastic coated Aircraft Strand steel cable in a continuous weave process. Plastic coated strands increase the life of the grip, provide a bearing surface on underground pulls and increase the ease and safety of installation and removal for workmen. Patented pulling eye is flexible and stress relieving.

Model C/Triple Weave - 2" to 2-3/4"



Part No.	Size (in)	Work Load (lb)	Approx. Break Strgth (lb)	Weight (oz)	Weave	Mesh Length (in)	Eye (in)
C-TW-32	2 - 2-3/4	3,500	10,500	1lb 4oz	Triple	32	3-1/2
C-TW-38	2 - 2-3/4	4,500	13,500	1lb 11oz	Triple	38	3-1/2

Model D/Triple Weave - 2-3/4" to 3-1/2"



Part No.	Size (in)	Work Load (lb)	Approx. Break Strgth (lb)	Weight (oz)	Weave	Mesh Length (in)	Eye (in)
D-TW-38	2-3/4 - 3-1/2	4,500	13,500	1lb 12oz	Triple	38	3-3/4
D-TW-46	2-3/4 - 3-1/2	5,500	16,500	2lb 2oz	Triple	46	3-3/4

Model E/Triple Weave - 3-1/2" to 4-1/4"



Part No.	Size (in)	Work Load (lb)	Approx. Break Strgth (lb)	Weight	Weave	Mesh Length (in)	Eye (in)
E-TW-46	3-1/2 - 4-1/4	5,500	16,500	2lb 5oz	Triple	46	4
E-TW-52	3-1/2 - 4-1/4	6,500	19,500	2lb 13oz	Triple	52	4

Model F/Triple Weave - 4-1/4" to 4-7/8"



Part No.	Size (in)	Work Load (lb)	Approx. Break Strgth (lb)	Weight	Weave	Mesh Length (in)	Eye (in)
F-TW-52	4-1/4 - 4-7/8	6,000	18,000	2lb 5oz	Triple	52	4
F-TW-58	4-1/4 - 4-7/8	7,000	21,000	2lb 13oz	Triple	58	4

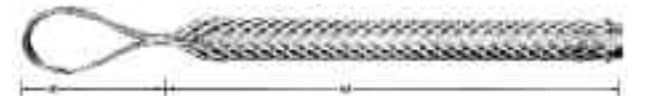
Model G, H, I, J & K are heavy duty grips manufactured of Hi-Fatigue plastic coated Aircraft Strand steel cable in a continuous quad weave process. Plastic coated strands increase the life of the grip, provide a bearing surface on underground pulls and increase the ease and safety of installation and removal for workmen. Patented pulling eye is flexible and stress relieving.

Model G/Quad Weave - 4-7/8" to 5-1/2"



Part No.	Size (in)	Work Load (lb)	Approx. Break Strgth (lb)	Weight	Weave	Mesh Length (in)	Eye (in)
G-QW-58	4-7/8 - 5-1/2	7,300	21,900	8.8 lbs	4 wire	58	6" braided
G-QW-64	4-7/8 - 5-1/2	8,300	24,900	9.6 lbs	4 wire	64	6" braided

Model H/Quad Weave - 5-1/2" to 6"



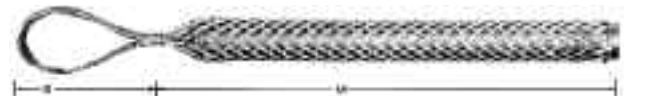
Part No.	Size (in)	Work Load (lb)	Approx. Break Strgth (lb)	Weight	Weave	Mesh Length (in)	Eye (in)
H-QW-58	5-1/2 - 6	7,300	21,900	9.0 lbs	4 wire	58	6" braided
H-QW-64	5-1/2 - 6	8,300	24,900	9.14 lbs	4 wire	64	6" braided

Model I/Quad Weave - 6" to 6-3/4"



Part No.	Size (in)	Work Load (lb)	Approx. Break Strgth (lb)	Weight	Weave	Mesh Length (in)	Eye (in)
I-QW-58	6 - 6-3/4	7,300	21,900	9.4 lbs	4 wire	58	6" braided
I-QW-64	6 - 6-3/4	8,300	24,900	10.2 lbs	4 wire	64	6" braided

Model J/Quad Weave - 6-3/4" to 8"



Part No.	Size (in)	Work Load (lb)	Approx. Break Strgth (lb)	Weight	Weave	Mesh Length (in)	Eye (in)
J-QW-58	6-3/4 - 8	7,300	27,300	9.4 lbs	4 wire	58	6" braided
J-QW-64	6-3/4 - 8	8,300	30,300	10.2 lbs	4 wire	64	6" braided

Hand Tools

Lewis®

Lewis Snake Grips

The Lewis Snake Grip expands or contracts to grip different or identical cable and/or rope sizes as per the customer's needs. SAVE time stringing up, changing and unstringing because the snake requires no special tools. The swivel and swing link go smoothly through blocks and prevent line twisting. INSTALL new cable by using old existing cable as pulling line. Always seize the ends of the grips by banding or taping.

Part No./Size Range	Approx. Brk. Strgth (lb)	Working Load (lb)
Regular Size LSG Snakes		
LSG 1/4 - 1/2	4,400	1,200
LSG 1/2 - 1	7,500	2,500
LSG 1 - 1-1/2	10,000	3,500
LSG 1-1/2 - 2	12,000	4,000
LSG 2 - 2-3/4	16,000	5,000
LSG 2-3/4 - 3-1/2	20,000	6,500
LSG 3-1/2 - 4-1/4	24,000	8,000
Special Size LSG Snakes		
LSG 1/4 - 1-1/2	4,400	1,200
LSG 1/2 - 1-1/2	7,500	2,500
LSG 1/2 - 2	7,500	2,500
LSG 1 - 2	10,000	3,500
LSG 1-1/2 - 2-1/2	12,000	4,000



Split Pulling Grips

Rod and Lace Closing

Lewis Split Grips - both rod and lace closing - are designed for all phases of suspension or pulling, where neither end of the conductor is available and "middle of the run" application of the grip is desired. Head variations are "DLE" (pictured), "SE" or "U". Please specify head desired. Working loads, as listed in the table below, are maximum holding power for the smallest conductor in each size range.

Model No.	Grip Size (in)	Work Load (lbs)
LSR -.75 LSL -.75	3/4 - 1	600
LSR - 1.00 LSL - 1.00	1 - 1-1/4	750
LSR - 1.25 LSL - 1.25	1-1/4 - 1-1/2	900
LSR - 1.50 LSL - 1.50	1-1/2 - 1-3/4	1100
LSR - 1.75 LSL - 1.75	1-3/4 - 2	1300
LSR - 2.00 LSL - 2.00	2 - 2-1/2	1500
LSR - 2.50 LSL - 2.50	2-1/2 - 3	1700
LSR - 3.00 LSL - 3.00	3 - 3-1/2	1700
LSR - 3.50 LSL - 3.50	3-1/2 - 4	1800
LSR - 4.00 LSL - 4.00	4 - 4-1/2	2000
LSR - 4.50 LSL - 4.50	4-1/2 - 5	2250
LSR - 5.00 LSL - 5.00	5 - 5-1/2	2500

* LSR - Lewis Split Grip, Rod Closing
ø LSL - Lewis Split Grip, Lace Closing



PULLING GRIPS:

Model OH

Four Standard Sizes: 1/4" - 1/2"; 3/0-.336 M.C.M.; .477-.795 M.C.M.; .795-1.000 M.C.M.

Model OH Pulling Grips, designed for the special demands of overhead stringing crews, has a basket constructed of triple woven nylon coated Aircraft Strand for maximum abrasive resistance. It has special tough plastic boots at eye-end to prevent abrasion between the conductor and pulling dollies. A steel thimble is manufactured into the eye, and is furnished without swivel or steel thimble on request. It is easily adaptable to Lewis ball bearing swivels. Uncoated wire gives approximately 20% more strength. Please specify when ordering.



Part No./Size Range	Work Load (lb)	Approx. Break Strgth (lb)	Weight	Weave	Mesh Length (in)	Eye (in)
OH-DW-1/4 - 1/2	1,500	4,500	12oz	Double	24	3
OH-TW-1/2 - 7/8 3/0-.336 M.C.M.	3,200	9,600	1lb	Triple	42	4
OH-TW-7/8 - 1-1/4 .477 - .795 M.C.M.	4,100	12,300	1lb 8oz	Triple	48	4
OH-5W-1-1/4 - 1-3/4 .795 - 1.000 M.C.M.	6,300	18,900	2	5 wire	51	4

Model R

Model R is basically the same grip in size and basket construction as the Model OH; however, it is somewhat shorter. This grip is employed in pulling all types of rope.



Part No./Size Range	Work Load (lb)	Approx. Break Strgth (lb)	Weight	Weave	Mesh Length (in)	Eye (in)
R-DW-1/4 - 1/2	1,500	4,500	12oz	Double	18	3
R-TW-1/2 - 7/8	3,200	9,600	14oz	Triple	36	4
R-TW-7/8 - 1-1/4	4,100	12,300	1lb	Triple	42	4

Heavy Duty Split Grips

Models S-1, S-2, S-3 and S-4

Split Grips are specially designed to pull or support wire or cable already in place. They are manufactured of Hi-Fatigue Aircraft Strand steel cable with abrasive resistant plastic coating. All Split Grips are closed with plastic coated stainless steel flexible lacing cable.



Part No.	Size (in)	Work Load (lb)	Approx. Break Strgth (lb)	Weight (oz)	Weave	Mesh Length (in)	Eye (in)
S-1-SW	3/4 - 1-1/4	1500	4500	5oz	Single	14	9
S-1-DW	3/4 - 1-1/4	2000	6000	6oz	Double	14	9
S-2-SW	1-1/4 - 1-3/4	2000	6000	9oz	Single	18	11
S-2-DW	1-1/4 - 1-3/4	3000	9000	10oz	Double	18	11
S-3-SW	1-3/4 - 2-1/4	2500	7500	12oz	Single	24	13
S-3-DW	1-3/4 - 2-1/4	4000	12000	15oz	Double	24	13
S-4-SW	2-1/4 - 2-3/4	3000	9000	1lb	Single	30	15
S-4-DW	2-1/4 - 2-3/4	5000	26000	1lb 10oz	Double	30	15

Lewis®

Ring & Conduit Riser Grips

Conduit Riser Ring Grips are specially designed to suspend conductor by using the conduit as a means of support. With the conductor approximately one-half inch above the "in place" position, the grip is slipped into position and seats on the conduit edge, thus completing the installation. Ring size permits conduit couplings to be used. The ring and its components are constructed of solder dipped cast bronze. Spring pins mounted in the cast ring provide proper spacing between conduit and grip mesh. The plastic coated Aircraft Strand cable - plus the flexibility of design - permits a maximum of line surge without conductor damage. Patent Nos. 3,216,682 and 3,399,853. Foreign and other patents pending.



Conduit Ring Grip Reducer Bushings make it possible for a small grip to be used with a large conduit until an increase in service is desired - at which time the small grip and bushing are extended for further use, while a larger grip is installed for the increased service. Patent Nos. 3,216,682 and 3,399,853. Foreign and other patents pending.



Conduit Size (in)	Grip Size (in)					
	.75 3/4 - 1-1/8	1.12 1-1/8 - 1-5/8	1.62 1-5/8 - 2-1/2	2.50 2-1/2 - 3-1/2	3.50 3-1/2 - 4-1/2	4.50 4-1/2 - 5-1/2
1-1/4	LR 1-1/4 - .75 1,000 lbs. 2-1/2 oz.					
1-1/2	LR 1-1/2 - .75 3 oz.					
2	LR 2 - .75 3 oz.	LR 2 - 1.12 1,250 lbs. 3-1/2 oz.				
2-1/2	LR 2-1/2 - .75 3-1/2 oz.	LR 2-1/2 - 1.12 4 oz.	LR 2-1/2 - 1.62 2,250 lbs* 4-1/2 oz.			
3	LR 3 - .75 4 oz.	LR 3 - 1.12 4-1/2 oz.	LR 3 - 1.62 6 oz.			
3-1/2	LR 3-1/2 - .75 4-1/2 oz.	LR 3-1/2 - 1.12 5 oz.	LR 3-1/2 - 1.62 6-1/2 oz.	LR 3-1/2 - 2.50 3,000 lbs. † 9-1/2 oz.		
4	LR 4 - .75 4-1/2 oz.	LR 4 - 1.12 4-3/4 oz.	LR 4 - 1.62 6-3/4 oz.	LR 4 - 2.50 10 oz.		
4-1/2	LR 4-1/2 - .75 5 oz.	LR 4-1/2 - 1.12 5-1/2 oz.	LR 4-1/2 - 1.62 7-1/2 oz.	LR 4-1/2 - 2.50 10 oz.		
5	LR 5 - .75 5-1/2 oz.	LR 5 - 1.12 6 oz.	LR 5 - 1.62 8 oz.	LR 5 - 2.50 11 oz.	LR 5 - 3.50 4,500 lbs. ‡ 15 oz.	
6	LR 6 - .75 7 oz.	LR 6 - 1.12 8 oz.	LR 6 - 1.62 11-1/2 oz.	LR 6 - 2.50 13 oz.	LR 6 - 3.50 1 oz.	LR 6 - 4.50 6,000 lbs. ¥ 1 lb. 5 oz.

* Maximum in 2-1/2 inch conduit and 2 inch conductor
† Maximum in 3-1/2 inch conduit and 3 inch conductor
‡ Maximum in 4-1/2 inch conduit and 4-inch conductor
¥ Maximum in 6-inch conduit and 5-1/2 inch conductor

Ball Bearing Swivels, Links, Swivel Toggles

Lewis Ball Bearing Swivels

Either "W" Series (Regular Duty) or "HD" Series (Heavy Duty) are specifically designed for tension stringing, and assure that conductor will remain in neutral position during stringing of transmission and distribution lines. These twin race ball bearing swivels are manufactured from high-grade pre-stressed steel. Proper placement of thrust and radial bearing allow thrust and shock loads to be absorbed without affecting rotation of swivel. Pins are screwdriver removable.



The above pictured ball-bearing swivel is available in Models W-1, W-2, W-3 and W-4. They are different sizes, specifications and ratings but they have the same basic design.

Part No.	Overall Length (A)	Pin Diameter (B)	Jaw Opening (C)	Overall Diameter (D)	Working Load (lb)	Approx. Break Strgth (lb)
W-1	5-3/8"	7/16"	5/8"	1-5/16"	5,000	15,000
W-2	6-1/2"	1/2"	7/8"	1-5/8"	5,400	16,200
W-3	7-5/8"	5/8"	1"	2"	12,000	36,000
W-4	8-3/4"	3/4"	1-1/4"	2-1/4"	15,000	45,000

Part No.	Overall Length (A)	Pin Diameter (B)	Jaw Opening (C)	Overall Diameter (D)	Working Load (lb)	Approx. Break Strgth (lb)
HD-00	4-1/8"	5/16"	3/8"	7/8"	1,500	4,500
HD-0	5-1/4"	7/16"	1/2"	1-1/8"	5,400	16,200
HD-1	6"	1/2"	5/8"	1-7/16"	9,000	27,000
HD-2	7-1/8"	5/8"	5/8"	1-5/8"	12,000	36,000
HD-3	8-5/8"	3/4"	3/4"	2"	21,000	63,000
HD-4	10"	7/8"	7/8"	2-3/8"	30,000	90,000



Swivel Toggle (TW Series).

A toggle used in conjunction with our ball bearing swivel. Provides a 90° "break-over" when pulling through angle structures or sharp bends in conduit.

Part No.	Overall Length (A)	Pin Diameter (B)	Jaw Opening (C)	Overall Diameter (D)	Working Load (lb)	Approx. Break Strgth (lb)
TW-1	2-3/4	7/16	5/8	1-11/32	5,000	15,000
TW-2	3-5/8	1/2	7/8	1-5/8	5,400	16,200
TW-3	4-1/4	5/8	1	2	12,000	36,000
TW-4	5	3/4	1-1/4	2-1/4	15,000	45,000

Part No.	Overall Length (A)	Jaw Opening (C)	Overall Diameter (D)	Working Load (lb)	Approx. Break Strgth (lb)
THD-0	3	1-1/8	1/2	5,400	16,200
THD-1	3-1/2	1-3/8	1/2	9,000	27,000
THD-2	4-1/2	1-5/8	5/8	12,000	36,000
THD-3	5-1/8	2	3/4	21,000	63,000
THD-4	6-1/8	2-3/8	7/8	30,000	90,000

Hand Tools

Lewis®



LINK (LW Series). A rigid link used as a connector for rope, conductor or wire line. A screwdriver removable pin is provided in each end.

Part No.	Overall Length (A)	Pin Diameter (B)	Jaw Opening (C)	Overall Diameter (D)	Working Load (lb)	Approx. Break Strgth (lb)
LW-1	3-1/4	7/16	5/8	1-11/32	5,000	15,000
LW-2	4-1/4	1/2	7/8	1-5/8	5,400	16,200
LW-3	4-7/8	5/8	1	2	12,000	36,000
LW-4	6-1/8	3/4	1-1/4	2-1/4	15,000	45,000

Part No.	Overall Length (A)	Jaw Opening (C)	Overall Diameter (D)	Working Load (lb)	Approx. Break Strgth (lb)
LHD-0	3-1/4	1-1/8	1/2	5,400	16,200
LHD-1	3-3/4	1-3/8	1/2	9,000	27,000
LHD-2	4-3/8	1-5/8	5/8	12,000	36,000
LHD-3	5-1/4	2	3/4	21,000	63,000
LHD-4	6-1/4	2-3/8	7/8	30,000	90,000

Swing Links

Drop forged steel swing links are fabricated from the same high quality steel as Lewis swivels. They are used for adapting swivels to Lewis grips and/or winch lines. They are available in sizes from 1/4-inch to 1/2-inch; other sizes will be furnished on request.

Length (in)	Size of Eye (in)	Metal Thickness (in)
2-1/4	7/16	5/16
3-3/32	17/32	7/16
3-11/16	9/16	9/16



Split Rod

Use this Lewis grip, as you would the Split Lace Grip, for "middle of the run" applications or when neither end of the conductor is available. Same 24" mesh length for maximum gripping surface, same continuous single weave through the eye for even pulling tension. The rod and eyelets are made of Hi-Strength steel for durable service.



Part No.	M (in)	E (in)	Grip Size (in)	Working Load (lb)	Break Strength (lb)
JL-25-FO-SR	24	8	1/4 - 3/8	600	1200
JL-37-FO-SR	24	8	1/4 - 1/2	600	1200
JL-50-FO-SR	24	8	1/2 - 5/8	750	1500
JL-62-FO-SR	24	8	5/8 - 3/4	750	1500
JL-75-FO-SR	24	8	3/4 - 1	900	2000
JL-100-FO-SR	24	8	1 - 1-1/4	900	2000

FIBER OPTICS SUPPORT GRIPS:

Split Lace

Use this grip for final adjustments and retensioning or to support or suspend wire. Patented, flexible pulling eye tends to equalize radial loads. Galvanized steel construction.



Part No.	M (in)	E (in)	Grip Size (in)	Working Load (lb)	Break Strength (lb)
FO-25-SL-U	6	5	1/4 - 3/8	500	1000
FO-37-SL-U	6	6	1/4 - 1/2	500	1000
FO-50-SL-U	6	6	1/2 - 5/8	600	1250
FO-62-SL-U	6	7	5/8 - 3/4	600	1250
FO-75-SL-U	6	7	3/4 - 1	750	1500
FO-100-SL-U	6	8	1 - 1-1/4	750	1500

STANDARD FIBER OPTICS PULLING GRIPS:

Closed Mesh

This Lewis grip is especially designed for long pulls. It features a continuous single weave design that provides an even pull from the receiving end through the pulling eye.

The grip is fabricated of coated galvanized aircraft strand for long life and safety. Each grip has a 24" mesh length for maximum gripping surface.



Part No.	M (in)	E (in)	Grip Size (in)	Working Load (lb)	Break Strength (lb)
JL-25-FO-CM	24	8	1/4 - 3/8	600	1200
JL-37-FO-CM	24	8	1/4 - 1/2	600	1200
JL-50-FO-CM	24	8	1/2 - 5/8	750	1500
JL-62-FO-CM	24	8	5/8 - 3/4	750	1500
JL-75-FO-CM	24	8	3/4 - 1	900	1800
JL-100-FO-CM	24	8	1 - 1-1/4	900	1800

Split Lace

The Lewis grip has the same long-life easy pulling characteristics as the closed mesh grip but is for use in any phase of suspension or pulling when a conductor end is not available. This grip can also be used for "middle of the run" applications. The lacing is made of coated, steel flexible lacing cable.



Part No.	M (in)	E (in)	Grip Size (in)	Working Load (lb)	Break Strength (lb)
JL-25-FO-SL	24	8	1/4 - 3/8	600	1200
JL-37-FO-SL	24	8	1/4 - 1/2	600	1200
JL-50-FO-SL	24	8	1/2 - 5/8	750	1500
JL-62-FO-SL	24	8	5/8 - 3/4	750	1500
JL-75-FO-SL	24	8	3/4 - 1	900	1800
JL-100-FO-SL	24	8	1 - 1-1/4	900	1800

Split Rod Grip

Use this grip as the Split Lace but a rod is used instead of split lace. Patented, flexible pulling eye. Galvanized steel construction. Heavy-duty steel rod and eyelets maintain their shape for repeated threading.



Part No.	M (in)	E (in)	Grip Size (in)	Working Load (lb)	Break Strength (lb)
FO-25-SR-U	6	5	1/4 - 3/8	500	1000
FO-37-SR-U	6	6	1/4 - 1/2	500	1000
FO-50-SR-U	6	6	1/2 - 5/8	600	1250
FO-62-SR-U	6	7	5/8 - 3/4	600	1250
FO-75-SR-U	6	7	3/4 - 1	750	1500
FO-100-SR-U	6	8	1 - 1-1/4	750	1500

Multi-Purpose X-Series Pulling Grips

Can be used for overhead or underground cable or wire rope pulling applications and for vibratory plows and directional drilling pull back operations.

The XS, X, and X-HDFE were designed to simplify the process of selecting a pulling grip. The entire X series is unique for several reasons:

- X Model grips can be used overhead or for underground pulls.
- X Model grips incorporate a single wire bail which, when put under pressure, conforms to even the tightest clearances. The single wire bail also connects easily with either ball bearing swivels or drop forged friction swivels.

Lewis®

Multi-Purpose X-Series Pulling Grips (continued)

- The reverse weave of all X Models insures that the grip and cable will pass smoothly through even the tightest blocks, sheaves, bullwheels, etc.
- The X and X Heavy Duty features metal shoulders installed beneath the bail. These shoulders allow the grip to be pulled through the most abrasive conduit or other rough environments, and still be used time after time. These shoulders are color coded to ensure the correct grip size is selected when making a pull.

NOTE: When a friction swivel is needed for the X-Series Pulling Grip or any other Lewis Pulling Grip, please refer to the following chart. To order a swivel built into a grip, add "W/S" to the end of the grip part number.

X or XS Models	Swivel Size	X or XS Models	Swivel Size
A	5/16	F	3/8
B	3/8	G	1/2
C	3/8	H	1/2
D	3/8	I	1/2
E	3/8	J	1/2

X-Series Grips

The X-Series Grips are color coded for quick identification and organized storage. They are plastic coated which increases the life of the grip, provides a more effective gripping surface, and reduces injuries due to frayed or mangled wire in the pulling grip itself. This grip is designed with the ball bearing swivel user in mind. The single wire eye allows a swivel to be attached to the grip easily, and helps to alleviate any binding that may occur in the throat of the swivel during a pull.

The X model grip also offers a backwards weave that (1) adds pulling surface to the grip itself, and (2) allows the grip to pass through even the tightest of clearances. The X series features metal sleeves near the top of the grip to eliminate wear when pulling through clay conduit, gravel, or other abrasive pulling environments. This series is constructed with galvanized wire, but can be ordered with stainless steel at additional cost.



Part #	Range (in)	Color Code	Work Load (lb)	Approx. Brk Strgth (lb)	Mesh (in)	Eye (in)
X-A-SW-18	3-4 - 1-1/4	Light Blue	1000	3000	18	5
X-A-DW-18			1500	3500	18	5
X-A-SW-24			1700	3400	24	5
X-A-DW-24			2000	6000	24	5
X-B-TW-26	1-1/4 - 2	Red	2500	7500	26	6
X-B-TW-32			2500	7500	32	6
X-C-TW-32	2 - 2-3/4	Purple	3500	10500	32	7
X-C-TW-38			4500	13500	38	7
X-D-TW-38	2-3/4 - 3-1/2	Orange	4500	13500	38	7
X-D-TW-46			5500	16500	46	7
X-E-TW-46	3-1/2 - 4-1/4	Green	5500	16500	46	8
X-E-TW-52			6500	19500	52	8
X-F-TW-52	4-1/4 - 4-7/8	Black	6000	18000	52	9
X-F-TW-58			7000	21000	58	9
X-G-QW-58	4-7/8 - 5-1/2	Yellow	15000	30000	58	10
X-G-QW-64			15000	30000	64	10
X-H-QW-58	5-1/2 - 6	Brown	15000	30000	58	10
X-H-QW-64			15000	30000	64	10
X-I-QW-58	6 - 6-3/4	Turquoise	15000	30000	58	10
X-I-QW-64			15000	30000	64	10
X-J-QW-58	6-3/4 - 8	Aluminum	16500	33000	58	10
X-J-QW-64			16500	33000	64	10

XS-Series Grips

These grips feature coated galvanized cable, reverse weave, and a single wire bail but will not have metal shoulders. XS series grip are identified by tags beneath the heavy duty clear tubing. The XS series is designed for normal working conditions.

Part #	Range (in)	Work Load (lb)	Approx. Brk Strgth (lb)	Mesh (in)	Eye (in)
XS-A-SW-18	3-4 - 1-1/4	1000	3000	18	5
XS-A-DW-18		1500	3500	18	5
XS-A-SW-24		1700	3400	24	5
XS-A-DW-24		2000	6000	24	5
XS-B-TW-26	1-1/4 - 2	2500	7500	26	6
XS-B-TW-32		2500	7500	32	6
XS-C-TW-32	2 - 2-3/4	3500	10500	32	7
XS-C-TW-38		4500	13500	38	7
XS-D-TW-38	2-3/4 - 3-1/2	4500	13500	38	7
XS-D-TW-46		5500	16500	46	7
XS-E-TW-46	3-1/2 - 4-1/4	5500	16500	46	8
XS-E-TW-52		6500	19500	52	8
XS-F-TW-52	4-1/4 - 4-7/8	6000	18000	52	9
XS-F-TW-58		7000	21000	58	9
XS-G-QW-58	4-7/8 - 5-1/2	15000	30000	58	10
XS-G-QW-64		15000	30000	64	10
XS-H-QW-58	5-1/2 - 6	15000	30000	58	10
XS-H-QW-64		15000	30000	64	10
XS-I-QW-58	6 - 6-3/4	15000	30000	58	10
XS-I-QW-64		15000	30000	64	10
XS-J-QW-58	6-3/4 - 8	16500	33000	58	10
XS-J-QW-64		16500	33000	64	10



Heavy-Duty X Model Grips

These grips are designed for large work loads and rugged conditions. The following heavy duty X models incorporate the use of exceptionally strong mesh, reverse weave, single wire bail and abrasion-resistant metal shoulders. Heavy Duty X models are constructed of uncoated aircraft strand galvanized wire.



Part #	Color Code	Work Loads (lb)	Approx. Brk Stgth (lb)	Mesh (in)	Eye (in)
X-HDFE-1/4 - 1/2	Brown	1200	6000	22	6
X-HDFE-1/2 - 7/8	Yellow	2400	12000	42	8
X-HDFE-7/8 - 1 3/8	Black	5700	28800	48	9
X-HDFE-1 3/8 - 2	Green	9600	48000	50	9
X-HDFE-2 - 2 3/4"	Orange	11500	56600	52	9
X-HDFE-2 3/4 - 3 1/2	Purple	13500	67200	54	9
X-HDFE-3 1/2 - 4 1/4	Red	15300	76800	56	9
X-HDFE-4 1/4 - 5	Light Blue	17900	86400	58	9

Special Application Suspension Grips

Hook Bail Grip

The Hook Bail series is used when a connection cannot be made with a U-Bail. The hook bail series is also available in split lace or split rod.

If a Split Grip is needed, add the following to the end of the part number: "SL" for Split Lace Closing or "SR" for Split Rod Closing.

For a Stainless Steel mesh add "SS" to the end of the part number.



- continues -

Hand Tools

Lewis®

Hook Bail Grip (continued)

Part #	Range (in)	Work Loads (lb)	Approx. Brk Stgth (lb)	Mesh (in)	Eye (in)
Single Weave					
HB-25-SW	1/4 - 3/8	500	1000	6	4
HB-37-SW	3/8 - 1/2	500	1000	6	4-1/2
HB-50-SW	1/2 - 5/8	500	1000	8	4-1/2
HB-62-SW	5/8 - 3/4	500	1000	10	5
HB-75-SW	3/4 - 1-1/8	1000	2000	12	5
HB-100-SW	3/4 - 1-1/4	1000	2000	14	6
HB-112-SW	1-1/8 - 1-5/8	1000	2500	14	7
HB-162-SW	1-5/8 - 2-1/2	2250	5000	16	7
HB-250-SW	2-1/2 - 3-1/2	3000	6000	18	8
HB-350-SW	3-1/2 - 4-1/2	4500	9000	20	8
HB-450-SW	4-1/2 - 5-1/2	6000	12000	22	8
Double Weave					
HB-50-DW	1/2 - 5/8	1000	2000	8	4-1/2
HB-62-DW	5/8 - 3/4	1000	2000	10	5
HB-75-DW	3/4 - 1-1/8	2000	4000	12	5
HB-100-DW	3/4 - 1-1/4	2000	4000	14	6
HB-112-DW	1-1/8 - 1-5/8	3000	6000	14	7
HB-162-DW	1-5/8 - 2-1/2	5000	10000	16	7
HB-250-DW	2-1/2 - 3-1/2	6000	12000	18	8
HB-350-DW	3-1/2 - 4-1/2	9000	18000	20	8
HB-450-DW	4-1/2 - 5-1/2	12000	24000	22	8

Offset Eye Grip

The Offset Eye series is most commonly used in cable placement applications. Use the OE series when a DLE, U, or HB model is unsuitable. The offset eye may also be used as a suspension grip.

If a Split Mesh grip is needed, add the following to the end of the part number: "SL" for Split Lace closure or "SR" for Split Rod closure.

Add "SS" to the end of the part number if Stainless Steel Mesh is desired.

Part #	Range (in)	Work Loads (lb)	Approx. Brk Stgth (lb)	Mesh (in)	Eye (in)
Single Weave					
OE-25-SW	1/4 - 3/8	500	1000	6	4
OE-37-SW	3/8 - 1/2	500	1000	7	4
OE-50-SW	1/2 - 5/8	500	1000	8	4-1/2
OE-62-SW	5/8 - 3/4	500	1000	10	5
OE-75-SW	3/4 - 1-1/8	1000	2000	12	5
OE-100-SW	3/4 - 1-1/4	1000	2000	14	5-1/2
OE-112-SW	1-1/8 - 1-5/8	1000	2500	14	6
OE-162-SW	1-5/8 - 2-1/2	2250	5000	16	7
OE-250-SW	2-1/2 - 3-1/2	3000	6000	18	8-1/2
OE-350-SW	3-1/2 - 4-1/2	4500	9000	20	8-1/2
OE-450-SW	4-1/2 - 5-1/2	6000	12000	22	10
Double Weave					
OE-50-DW	1/2 - 5/8	1000	2000	8	4-1/2
OE-62-DW	5/8 - 3/4	1000	2000	10	5
OE-75-DW	3/4 - 1-1/8	2000	4000	12	5
OE-100-DW	3/4 - 1-1/4	2000	4000	14	5-1/2
OE-112-DW	1-1/8 - 1-5/8	3000	6000	14	6
OE-162-DW	1-5/8 - 2-1/2	5000	10000	16	7
OE-250-DW	2-1/2 - 3-1/2	6000	12000	18	8-1/2
OE-350-DW	3-1/2 - 4-1/2	9000	18000	20	8-1/2
OE-450-DW	4-1/2 - 5-1/2	12000	24000	22	10



Dual Lift Eye Grip

The Dual Lift Eye series is most commonly used in cable placement applications. Use the DLE series when a OE, U, or HB model is unsuitable. The DLE may also be used as a suspension grip. If a split grip is needed, add the following to the end of the part number: "SL" for split lace or "SR" for split rod. Add "SS" to the end of the part number if stainless steel mesh is desired.

Part #	Range (in)	Work Loads (lb)	Approx. Brk Stgth (lb)	Mesh (in)	Eye (in)
Single Weave					
DLE-25-SW	1/4 - 3/8	500	1000	6	4
DLE-37-SW	3/8 - 1/2	500	1000	7	4
DLE-50-SW	1/2 - 5/8	500	1000	8	4-1/2
DLE-62-SW	5/8 - 3/4	500	1000	10	5
DLE-75-SW	3/4 - 1-1/8	1000	2000	12	5
DLE-100-SW	3/4 - 1-1/4	1000	2000	14	5-1/2
DLE-112-SW	1-1/8 - 1-5/8	1000	2500	14	6
DLE-162-SW	1-5/8 - 2-1/2	2250	5000	16	7
DLE-250-SW	2-1/2 - 3-1/2	3000	6000	18	8-1/2
DLE-350-SW	3-1/2 - 4-1/2	4500	9000	20	8-1/2
DLE-450-SW	4-1/2 - 5-1/2	6000	12000	22	10
Double Weave					
DLE-50-DW	1/2 - 5/8	1000	2000	8	4-1/2
DLE-62-DW	5/8 - 3/4	1000	2000	10	5
DLE-75-DW	3/4 - 1-1/8	2000	4000	12	5
DLE-100-DW	3/4 - 1-1/4	2000	4000	14	5-1/2
DLE-112-DW	1-1/8 - 1-5/8	3000	6000	14	6
DLE-162-DW	1-5/8 - 2-1/2	5000	10000	16	7
DLE-250-DW	2-1/2 - 3-1/2	6000	12000	18	8-1/2
DLE-350-DW	3-1/2 - 4-1/2	9000	18000	20	8-1/2
DLE-450-DW	4-1/2 - 5-1/2	12000	24000	22	10



Cord Cap Grip

These grips are used to prevent electrical cords from pulling out of cord caps.



Part #	Range (in)	Work Loads (lb)	UTS	Mesh (in)
CC-50	1/2 - 5/8	500	1000	4-3/4
CC-62	5/8 - 3/4	500	1000	6
CC-75	3/4 - 1-1/8	1000	2000	8
CC-100	3/4 - 1-1/4	1000	2000	10

U-Bail Suspension Grip

These grips are constructed of uncoated galvanized wire and are used for bus drops and general suspension. If coated wire is required, please add "CW" to the end of the part number. Coated wire is not available on Light Duty U-Bail Suspension Grips.

Part #	Range (in)	Work Loads (lb)	Approx. Brk Stgth (lb)	Mesh (in)	Eye (in)
Light Duty					
U-25-SWB-PGE	1/4 - 3/8	500	1000	5	5-1/2
U-37-SWB-PGE	3/8 - 1/2	500	1000	6	5-1/2
U-50-SWB-PGE	1/2 - 5/8	500	1000	8	6
U-62-SWB-PGE	5/8 - 3/4	500	1000	10	7
U-75-SWB-PGE	3/4 - 1-1/8	1000	2000	12	8
U-100-SWB-PGE	3/4 - 1-1/4	1000	2000	14	9
U-112-SWB-PGE	1-1/8 - 1-5/8	1000	2500	14	10
U-162-SWB-PGE	1-5/8 - 2-1/2	2250	5000	16	16
U-250-SWB-PGE	2-1/2 - 3-1/2	3000	6000	18	18



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Lewis®

U-Bail Suspension Grip (continued)

Part #	Range (in)	Work Loads (lb)	Approx. Brk Stgth (lb)	Mesh (in)	Eye (in)
Standard Duty - Single Weave					
U-50-SWB-SW	1/2 - 5/8	500	1000	8	6
U-62-SWB-SW	5/8 - 3/4	500	1000	10	7
U-75-SWB-SW	3/4 - 1-1/8	1000	2000	12	8
U-100-SWB-SW	3/4 - 1-1/4	1000	2000	14	9
U-112-SWB-SW	1-1/8 - 1-5/8	1000	2500	14	10
U-162-SWB-SW	1-5/8 - 2-1/2	2250	5000	16	16
U-250-SWB-SW	2-1/2 - 3-1/2	3000	6000	18	18
U-350-SWB-SW	3-1/2 - 4-1/2	4500	9000	20	20
U-450-SWB-SW	4-1/2 - 5-1/2	6000	12000	22	20
Heavy Duty - Double Weave					
U-50-SWB-DW	1/2 - 5/8	1000	2000	8	6
U-62-SWB-DW	5/8 - 3/4	1000	2000	10	7
U-75-SWB-DW	3/4 - 1-1/8	2000	4000	12	8
U-100-SWB-DW	3/4 - 1-1/4	2000	4000	14	9
U-112-SWB-DW	1-1/8 - 1-5/8	3000	6000	14	10
U-162-SWB-DW	1-5/8 - 2-1/2	5000	10000	16	16
U-250-SWB-DW	2-1/2 - 3-1/2	6000	12000	18	18
U-350-SWB-DW	3-1/2 - 4-1/2	9000	18000	20	20
U-450-SWB-DW	4-1/2 - 5-1/2	12000	24000	22	20

Lewis Riser Hook Ball Grip

This series of grips is designed to permanently support cable in conduit. Special hooked ends hook over conduit, eliminating the need for a bushing. The LRHB series is available in split lace or split rod configurations.

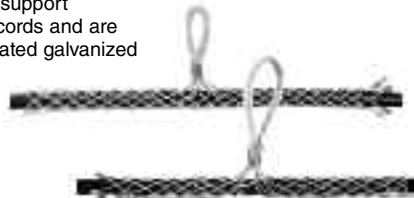
For Split Lace, add "SL" to the end of the part number. For Split Rod, add "SR". Split grips are used when ends of cable are not available.

Part #	Range (in)	Work Loads (lb)	UTS	Mesh (in)
LRHB-50-SW	1/2 - 5/8	500	1000	8
LRHB-62SW	5/8 - 3/4	500	1000	10
LRHB-75-SW	3/4 - 1-1/8	1000	2000	12
LRHB-100-SW	3/4 - 1-1/4	1000	2000	14
LRHB-112-SW	1-1/8 - 1-5/8	1000	2500	14
LRHB-162-SW	1-5/8 - 2-1/2	2250	5000	16
LRHB-250-SW	2-1/2 - 3-1/2	3000	6000	18
LRHB-350-SW	3-1/2 - 4-1/2	4500	9000	20
LRHB-450-SW	4-1/2 - 5-1/2	6000	12000	22



Inline Horizontal Support Grip

These grips are designed to support horizontal industrial lines or cords and are constructed of high grade coated galvanized wire for long life and reliability. The inline series is available in closed, split rod or split lace mesh configurations.



Part #	Range (in)	Work Loads (lb)	Approx. Brk Stgth (lb)
Closed Mesh			
IH-50-SW	1/2 - 5/8	500	1000
IH-62-SW	5/8 - 3/4	500	1000
IH-75-SW	3/4 - 1-1/8	1000	2000
IH-100-SW	3/4 - 1-1/4	1000	2000
IH-112-SW	1-1/8 - 1-5/8	1000	2500
IH-162-SW	1-5/8 - 2-1/2	2250	5000
IH-250-SW	2-1/2 - 3-1/2	3000	6000
IH-350-SW	3-1/2 - 4-1/2	4500	9000
IH-450-SW	4-1/2 - 5-1/2	6000	12000

Split rod is indicated by "SR", split lace is denoted by "SL". Closed mesh has neither SL or SR included in the part number.

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In-Line Horizontal Support Grip (continued)

Part #	Range (in)	Work Loads (lb)	Approx. Brk Stgth (lb)
Split Mesh Lace Closing			
IH-50-SW-SL	1/2 - 5/8	500	1000
IH-62-SW-SL	5/8 - 3/4	500	1000
IH-75-SW-SL	3/4 - 1-1/8	1000	2000
IH-100-SW-SL	3/4 - 1-1/4	1000	2000
IH-112-SW-SL	1-1/8 - 1-5/8	1000	2500
IH-162-SW-SL	1-5/8 - 2-1/2	2250	5000
IH-250-SW-SL	2-1/2 - 3-1/2	3000	6000
IH-350-SW-SL	3-1/2 - 4-1/2	4500	9000
IH-450-SW-SL	4-1/2 - 5-1/2	6000	12000
Split Mesh Rod Closing			
IH-50-SW-SR	1/2 - 5/8	500	1000
IH-62-SW-SR	5/8 - 3/4	500	1000
IH-75-SW-SR	3/4 - 1-1/8	1000	2000
IH-100-SW-SR	3/4 - 1-1/4	1000	2000
IH-112-SW-SR	1-1/8 - 1-5/8	1000	2500
IH-162-SW-SR	1-5/8 - 2-1/2	2250	5000
IH-250-SW-SR	2-1/2 - 3-1/2	3000	6000
IH-350-SW-SR	3-1/2 - 4-1/2	4500	9000
IH-450-SW-SR	4-1/2 - 5-1/2	6000	12000

Fitted Bus Drop Strain Relief Grips

Male Threads

Yields a liquid tight and strain relief termination for flexible-type neoprene, hypalon, and PVC jacketed power or control cord and cable.

For use in wet or dry locations sealing electrical connections against dust and dirt, oil, water or other circumstances involving moisture.



Part #	Conduit Size (in)	Cord or Cable Size	Part #	Conduit Size (in)	Cord or Cable Size
FBDM-1	1/4	.060 - .156	FBDM-22	1	.875 - 1.000
FBDM-2	1/4	.156 - .250	FBDM-23	1	1.000 - 1.125
FBDM-3	3/8	.125 - .187	FBDM-24	1-1/4	.750 - .875
FBDM-4	3/8	.187 - .312	FBDM-25	1-1/4	.875 - 1.000
FBDM-5	3/8	.312 - .437	FBDM-26	1-1/4	1.000 - 1.125
FBDM-6	1/2	.125 - .187	FBDM-27	1-1/4	1.125 - 1.250
FBDM-7	1/2	.187 - .312	FBDM-28	1-1/4	1.250 - 1.375
FBDM-8	1/2	.312 - .437	FBDM-29	1-1/4	1.375 - 1.500
FBDM-9	1/2	.375 - .500	FBDM-30	1-1/2	1.156 - 1.312
FBDM-10	1/2	.500 - .625	FBDM-31	1-1/2	1.281 - 1.531
FBDM-11	1/2	.625 - .750	FBDM-32	2	1.531 - 1.780
FBDM-12	3/4	.125 - .250	FBDM-33	2	1.650 - 2.000
FBDM-13	3/4	.250 - .375	FBDM-34	2-1/2	2.000 - 2.343
FBDM-14	3/4	.375 - .500	FBDM-35	2-1/2	2.250 - 2.500
FBDM-15	3/4	.500 - .625	FBDM-36	3	2.500 - 2.843
FBDM-16	3/4	.625 - .750	FBDM-37	3	2.687 - 3.062
FBDM-17	3/4	.750 - .875	FBDM-38	3-1/2	3.000 - 3.390
FBDM-18	1	.375 - .500	FBDM-39	3-1/2	3.281 - 3.515
FBDM-19	1	.500 - .625	FBDM-40	4	3.500 - 3.583
FBDM-20	1	.625 - .750	FBDM-41	4	3.750 - 4.000
FBDM-21	1	.750 - .875			

Hand Tools

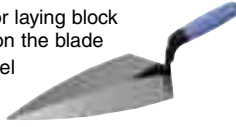
Marshalltown®

Marshalltown®

BRICKLAYING TOOLS:

Philadelphia Pattern Brick Trowels

- Philadelphia pattern trowels are better suited for laying block because they allow more mortar to be placed on the blade
- Made from hardened and tempered carbon steel
- Taper ground and polished for good flexibility
- Comfortable resilient handle with finger guard



EDI	Part#	UPC#	Size (in)	Box	Case
10805	BT305	035965008051	11 x 5-1/2	4	12

London Pattern Brick Trowels

- Made from hardened and tempered carbon steel
- Resilient handle for extra comfort and grip
- Taper ground and polished for good flexibility
- Designed for laying brick
- Integral finger guard protects against calluses, heat, and cold



EDI	Part#	UPC#	Size (in)	Box	Case
10802	BT302	035965008020	11-1/2 x 5	4	12

Tuck Pointers

- Forged from one piece of high carbon steel
- Tapered for the required sturdiness and correct flexibility
- High shank and high lift give plenty of hand room
- Hard wood handle with metal ferrule is securely attached



EDI	Part#	UPC#	Size (in)	Box	Case
11305	505	035965013055	6-3/4 x 3/8	6	6
11306	506	035965013062	6-3/4 x 1/2	6	6
11307	507	035965013079	6-3/4 x 5/8	6	6

Brick Jointers

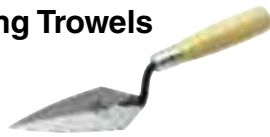
- Made from high carbon steel
- Each end is a different size for making different size joints



EDI	Part#	UPC#	Joint Size	Length	Box	Case
15522	80	035965055222	1/2 & 5/8	10-1/2"	6	72
15526	82	035965055260	5/8 & 3/4	10-1/2"	6	72

Philadelphia Style Pointing Trowels

- Forged from a single piece of high carbon steel for unsurpassed strength
- Hardwood handle with polished steel ferrule is securely attached



EDI	Part#	UPC#	Size (in)	Box	Case
11122	454.5	035965011228	4-1/2 x 2-1/4	6	6

Pointing Trowels

- Made from hardened and tempered steel
- Resilient handle for extra comfort and grip
- Integral finger guard protects against calluses, heat and cold



EDI	Part#	UPC#	Size (in)	Box	Case
10820	PT320	035965008204	5 x 2-1/2	6	6

Margin Trowels

- Made from hardened and tempered steel
- Resilient handle for extra grip and comfort



EDI	Part#	UPC#	Size (in)	Box	Case
10815	MT315	035965008150	5 x 1-1/2	6	6
10816	MT316	035965008167	5 x 2	6	6

Gauging Trowels

- Made from hardened and tempered steel
- Blade is fully tempered, ground, and polished
- Resilient handle for extra comfort and grip
- Used for mixing or "gauging" small quantities of quick setting plaster



EDI	Part#	UPC#	Size	Box	Case
17927	GT738	035965079273	7 x 3-3/8	12	12

Joint Raker

- Large 1 3/4" skate wheels
- Strong aluminum handle is contoured to fit the hand and squared off at the end
- Hardened nail, adjustable to the proper depth, can be securely tightened by slipping the nail in the eye of a spade bolt and twisting



EDI	Part#	UPC#	Size (in)	Box	Case
15502	89	035965055024	8-1/2 x 3	3	36

Brick Tongs

- Heavy duty tongs designed and built for long wear
- Can be quickly adjusted to carry from six to ten bricks



EDI	Part#	UPC#	Size	Box	Case
16510	88	035965065108	16"	1	12

Masonry Brush

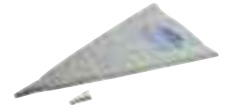
- Bristles made of white tampico fiber
- 3-1/2" bristles are set in hardwood block
- Ideal for broadcasting release for decorative concrete applications



EDI	Part#	UPC#	Size (in)	Box	Case
16520	829	035965065207	6-1/2 x 2	1	12

Grout Bags

- Made of seamless black vinyl
- Used for holding and dispensing grout or mortar
- Includes 3/8" metal tip

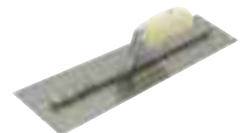


EDI	Part#	UPC#	Size (in)	Box	Case
17818	GB692	035965078184	12 x 24-w/Tip	1	72
17819	RT693	035965078191	Tip Only	1	72

CONCRETE FINISHING TOOLS

Finishing Trowels

- Cast aluminum mounting securely riveted to tempered, polished steel blade
- Mounting has a square shank to prevent handle from turning
- Wood Handle



EDI	Part#	UPC#	Size (in)	Box	Case
13801	FT362	035965038010	12 x 4	4	12
13802	FT363	035965038027	14 x 4	4	12
13803	FT364	035965038034	16 x 4	4	12

High Carbon Blue Steel Pool Trowels

- Short aluminum alloy mounting
- Blade is flexible enough to conform to almost any radius
- Hardwood handle



EDI	Part#	UPC#	Size (in)	Box	Case
13115	PT144B	035965031158	14 x 4	4	12
13127	PT164B	035965031271	16 x 4-1/2	4	12

Marshalltown®

Straight End Stainless Steel Edgers

- Heavy gauge 301 premium stainless steel blade
- Sturdy steel mounting welded to the blade
- Resilient DuraSoft® handle provides a soft feel, reduces fatigue, and offers excellent durability
- Used to produce a radius at the edge of a concrete slab to prevent the edge from chipping



EDI	Part#	UPC#	Size (in)	Radius	Lip	Box	Case
14228	161SSD	035965042284	6 x 6	1/8"	1/4"	6	6
14286	185SS	035965042864	8 x 6	3/8"	1/2"	6	6
14296	196SS	035965042963	10 x 4	1"	1-1/8"	6	6

Concrete Edger

- Heavy duty steel blade
- Wooden handle
- Both ends are curved up for use in either direction
- Used to produce a radius at the edge of a concrete slab to help prevent the end from chipping off



EDI	Part#	UPC#	Size (in)	Radius	Lip	Box	Case
13824	CE384	035965038249	6 x 3	3/8"	1/2"	6	36

Stainless Steel Curved End Edger

- Stainless steel blade
- Wooden handle
- Both ends are curved up for use in either direction
- Used to produce a radius at the edge of a concrete slab to help prevent the end from chipping off



EDI	Part#	UPC#	Size (in)	Radius	Lip	Box	Case
13950	CE535S	035965039505	6 x 3	1/4"	3/8"	1	6

Steel Groover

- Sturdy steel mounting
- Properly shaped bit and leading edge cut a sharp groove and finishes clean



EDI	Part#	UPC#	Size	Box	Case
13836	CG396	035965038362	6 x 3	6	36

Heavy-Duty Zinc Groovers

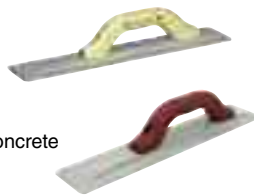
- Made from high quality long wearing zinc, harder than bronze
- Finely finished to cut sharp clean grooves
- Shaped to eliminate concrete-catching corners
- Dimensionally very consistent
- Smooth finish allows for easier clean-up
- Resilient DuraSoft® handle provides a soft feel, reduces fatigue, and offers excellent durability



EDI	Part#	UPC#	Bit Size	Blade Size	Box	Case
14106	834	035965041065	3/4 x 3/8	6 x 4 1/2	1	6

Magnesium Floats, Beveled Ends

- Extruded from very hard, durable, lightweight magnesium
- Our most popular float design
- Comfortable handle is positioned to give the tool perfect balance
- Handles are secured with torque pad screws that will not back out
- Recommended for use with air entrained concrete
- Magnesium floats produce a smoother finish than wood



EDI	Part#	UPC#	Size (in)	Box	Case
14606	142	035965046060	12 x 3-1/8	6	6
14604	145	035965046046	16 x 3-1/8	6	6
14610	145D	035965046107	16 x 3-1/8	6	6
14602	146	035965046022	20 x 3-1/8	6	6

Magnesium Bull Floats

- Extruded from magnesium alloy
- Lightweight, long wearing
- Round End



EDI	Part#	UPC#	Size (in)	Box	Case
13875	MB48R	035965038751	48 x 8	1	1
13873	MB48B	035965038737	48 x 8 (Blade Only)	3	3

Bull Float Bracket Replacement Parts

- Bull float bracket replacement parts



EDI	Part#	UPC#	Description	Box	Case
19166	A3003	035965091664	Complete Assembly	1	12

Universal Mounting Plate

- Adapts bull floats and brackets to a two or four hole mounting
- Can be used with the Auto-Just bull float bracket and similar brackets made by others



EDI	Part#	UPC#	Size	Box	Case
19176	A3008	035965091763	N/A	1	24

Fresno Bull Float Bracket Adapter

- Bracket gives the ability to attach a bull float bracket to a single post fresno



EDI	Part#	UPC#	Description	Box	Case
13749	3749	035965137492	Bracket Adapter	1	24

RotaLeveler® Bull Float Bracket

- Fits all two and four hole bull floats without adapters
- Features easy control adjustment, smooth operation, and a large protected grease reservoir
- Chain driven
- Accepts most 1-3/4" and 1-3/8" push button handles without adapters
- Easier to keep clean than most competitors' units



EDI	Part#	UPC#	Size	Box	Case
14801	RL6	035965048019	N/A	1	6

RotaLeveler® Adapter

- Used to attach smaller diameter push button handles to our #RL6 RotaLeveler® bull float bracket
- Large end has an outside diameter of 1-3/4" to attach to the RotaLeveler®, and small end has a 1-3/8" outside diameter to attach to the handle



EDI	Part#	UPC#	Size (in)	Box	Case
14809	HA4	035965048095	15"	1	1

Auto-Just® Bull Float Bracket

- This bracket changes pitch automatically just by pushing and pulling
- Eliminates twisting, turning, raising, and lowering when floating concrete
- Either screw type or push button handles may be used
- Push button handle requires an adapter
- Universal mounting plate is included; fits all two and four hole bull floats



EDI	Part#	UPC#	Size	Box	Case
14800	AB4	035965048002	N/A	1	1

Hand Tools

MARSHALLTOWN®

Handle Sections

- The large threads can be combined with similar handles made by others
- Aluminum Construction
- WARNING:** When using handle extensions, always avoid contact with electrical power lines or any electrical source



EDI	Part#	UPC#	Size (in)	Diameter	Box	Case
14802	B5 60	035965048026	5'	1-3/4"	1	6
14804	B5 72	035965048040	6'	1-3/4"	1	6

Wood Floats

- Made from clear 3/4" thick seasoned redwood
- Primarily used for leveling and smoothing concrete prior to final finish
- Also ideal when a slightly rougher concrete is desired
- Wood Handle



EDI	Part#	UPC#	Size	Box	Case
14502	44	035965045025	12 x 5	6	6
14504	144	035965045049	16 x 3-1/2	6	6

Rub Bricks

- Fluted silicon carbide stone 20-grit
- Ideal for dressing down and removing form marks from concrete



EDI	Part#	UPC#	Size (in)	Box	Case
16440	840	035965064408	6 x 3 x 1	1	5
16441	841	035965064415	8 x 3-1/2 x 1-1/2	1	5

Concrete Brooms

- Long wearing 2-3/4" black polypropylene bristles set solidly into a natural lacquered hardwood block
- Threaded hole accepts any standard broom handle
- Ideal for applying non-slip finish to newly finished concrete surfaces



EDI	Part#	UPC#	Size (in)	Box	Case
16425	848	035965064255	48"	1	6

Tie Wire Twister

- Compact size allows the tool to be used in tight spaces
- Safely and easily twists wire bar ties
- Durable design



EDI	Part#	UPC#	Size	Box	Case
14731	14731	035965047319	N/A	24	24

DRYWALL/PLASTERING TOOLS

Pro-Style Taping Knives With Molded - On Handles

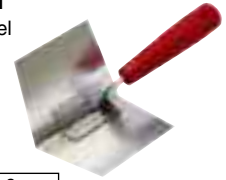
- Flexible blue spring steel blade
- Tapered blade for corner work
- The most lightweight yet durable taping knife on the market
- Lightweight plastic contoured handle



EDI	Part#	UPC#	Size (in)	Box	Case
16050	915M	035965060509	14 x 3-1/4	6	6

Inside Drywall Corner Trowel

- Formed from one piece of flexible stainless steel
- Plastic handle
- Blade is set with 103° angle that flexes to 90° for finishing corners
- Used to embed tape and smooth out the final layer of mud to taped corners



EDI	Part#	UPC#	Size (in)	Box	Case
16111	911	035965061117	3-1/2 x 4-1/2	2	48

Plastic Mud Pan

- Made of durable plastic
- Tapered ends and sides
- Features a metal scraping bar
- Resists chemicals and temperature changes
- Used for carrying joint compound



EDI	Part#	UPC#	Size (in)	Box	Case
16114	914	035965061148	12"	12	12

Hand Sander

- Rust resistant backing plate bonded to foam rubber pad
- Smooth contour handle
- Exclusive one piece handle clamp design for easy sandpaper attachment
- Designed for die-cut or a half sheet sandpaper



EDI	Part#	UPC#	Size (in)	Box	Case
16101	HS901	035965061018	9-1/2 x 3-1/4	6	6

Swivel Pole Sander

- Used for sanding drywall joints
- Made of reinforced die cast aluminum bonded to a foam rubber pad
- Fast, positive clamps lock securely to hold sandpaper in place
- Handle sold separately, #14827 or #14829



EDI	Part#	UPC#	Size (in)	Box	Case
14426	26	035965044264	9-3/8 x 3-1/4	2	24

Drywall Sanding Sponge

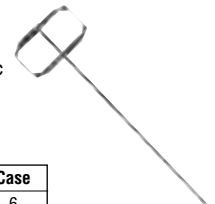
- Abrasive side for wet sanding; sponge side for removing residue
- Recommended by compound manufacturers
- Virtually dustless drywall sanding
- Cleans easily, reusable



EDI	Part#	UPC#	Size (in)	Box	Case
16467	DWS467	035965064675	9 x 4-1/2 x 1-3/4	144	144

Quik-Mix® Mixers

- Blade welded to 3/8" hex shaft
- Ideal for stirring paint, drywall mud, and acoustic
- Fits any 3/8" or larger slow speed drill (500 rpm)
- Blade measures 8-1/2" X 4-1/2"
- 36" Shaft



EDI	Part#	UPC#	Size (in)	Box	Case
16371	819L	035965063715	36	6	6

Jiffler® Mixer, 3-1/2" Wheels

- Plated steel wheels
- Wheels can be adjusted on the shaft
- Unique action mixes fast as the lower wheel cuts upward and upper wheel downward to create counter flow
- Has a plated 3/8" X 16" steel shaft that has been milled for a 1/4" or larger chuck



(in) EDI	Part#	UPC#	Size	Box	Case
16336	893	035965163361	3-1/2	1	18

MARSHALLTOWN®

Aluminum Hawk

- Made of heavy gauge hard-rolled aluminum
- Lightweight but durable
- Edges have been smoothed and rounded
- Wooden handle and sponge callus preventer included



EDI	Part#	UPC#	Size (in)	Box	Case
14659	AH659	035965046596	13 x 13	6	24

Callus Preventer

- Made of sponge rubber
- Can be used with any of our hawks



EDI	Part#	UPC#	Size	Box	Case
19102	0	035965091022	N/A	1	120

Permashape® Premium Stainless Steel Plastering Trowels

- Guaranteed to stay flat use after use
- Withstands pressure of hard-troweling
- Flat blade makes applications easier with more consistent finish
- Made from the highest grade stainless steel
- Properly shaped and tempered
- Resilient DuraSoft® handle provides a soft feel, reduces fatigue, and offers excellent durability



EDI	Part#	UPC#	Size (in)	Box	Case
12180	1SSFPD	035965021807	11 x 4-1/2	1	12
12182	4SSFPD	035965021821	11-1/2 x 4-3/4	1	12
12184	13SSFPD	035965021845	13 x 5	1	12

Finishing Trowel

- Cast aluminum mounting riveted to tempered, polished steel blade
- Mounting has a square shank to prevent handle from turning
- Comfortable hardwood handle



EDI	Part#	UPC#	Size (in)	Box	Case
13807	FT368	035965038072	12 x 5	4	12

Rubber Floats

- 5/8" thick red rubber bonded to aluminum backing plate
- The ideal float for bringing sand to the surface
- Used by concrete finishers and plasterers



EDI	Part#	UPC#	Size (in)	Box	Case
14557	RF767	035965045575	9 x 4-FINE	1	24
14558	RF768	035965045582	9 x 4-COARSE	1	24

Tapeshooter™ Drywall Tapers

- Made from lightweight aluminum
- One-handed mud loading
- Precision mud flow control is easy to adjust
- Latched door on tape spool holder
- Adjustable web side handle with thumb rest
- Serrated cut-off blade
- Comfortable DuraSoft® handle



EDI	Part#	UPC#	Size (in)	Box	Case
16375	798D	035965063753	Right-Handed	1	1
16376	799D	035965063760	Left-Handed	1	1
Replacement Blades					
16457	RB798	035965064576	Right-Handed	1	1
16458	RB799	035965064583	Left-Handed	1	1

Drywall Tape Reel

- Made of steel and plated to prevent rust
- Holds all standard tape rolls up to 500 feet
- Hangs on belt for easy dispensing
- Quick opening design makes changing tape easy



EDI	Part#	UPC#	Size (in)	Box	Case
16331	31	035965063319	10-1/4 x 3	6	6

Drywall Board Lifter

- Tapered front end slides easily under board for lifting while nailing
- Non-slip surface
- Self-righting feature makes it always ready for use



EDI	Part#	UPC#	Size (in)	Box	Case
15330	790	035965053303	12 X 5-1/4	2	2

Drywall Utility Saw

- Rugged steel blade with eight teeth per inch
- Sharp point can penetrate wallboard without drilling
- Cuts wallboard, masonite, plywood, and wood
- Contoured hardwood handle with steel ferrule



EDI	Part#	UPC#	Size (in)	Box	Case
16120	US920	035965161206	6	12	120

Drywall Circle Cutter

- Hardened cutter wheel and center pin will remain sharp indefinitely
- Cuts sharp clean circles of up to 16" in diameter with only one hand
- Measure accurately on the calibrated steel shaft



EDI	Part#	UPC#	Size (in)	Box	Case
14556	CC766	035965145565	8-1/2"	6	60

T-Square

- Silver anodized finish with black epoxy paint numerals for long wear and legibility
- Reverse ruled to read from either edge
- Head is notched to permit full length cut
- Stud location marks aid in nailing
- 47-7/8" long



EDI	Part#	UPC#	Size (in)	Box	Case
16118	TS917	035965061186	47-7/8 x 22	2	20

Scratcher Trowel

- Blade made of the highest grade spring steel
- Resilient DuraSoft® handle provides a soft feel, reduces fatigue, and offers excellent durability
- Blade is 1/2" X 15/32 "V" notched on three sides
- Used for scoring plaster or stucco to form a good bond between coats



EDI	Part#	UPC#	Size (in)	Box	Case
15742	715S	035965057424	12 x 4-1/2	4	4

Hand Tools

MARSHALLTOWN®/MAYHEW TOOLS

Sharpshooter I™ Hopper Gun

- Plastic hopper with lid and specially formulated nylon gun
- Seven orifice sizes with tubular design for reduced overspray and greater texture variety
- Tight sealing flow shutoff prevents leakage
- Knurled knob allows for easy adjustment of orifice plate
- Angled hopper adapter allows hopper to remain level while spraying floors and ceilings
- Gun features a handy air control valve which allows flow control at the gun instead of at the pump
- Easy pull swing trigger for greater control and less fatigue with adjustable trigger stop for more consistency in pattern
- Seamless corner design eliminates material build-up in hopper
- Hopper capacity approximately 2 gallons
- 45° angled hopper adapter included



EDI	Part#	UPC#	Size	Box	Case
16356	693	035965063562	Hopper Gun-Complete	1	1

Skywalker Stilts™

- Heavy gauge overlapping aluminum legs tubes
- Padded calf brace
- Dual spring action
- Adjustable metal buckle straps and adjustable heel plates already attached
- 225 lb. load limit



EDI	Part#	UPC#	Size	Box	Case
16408	SW18	035965064088	Adj. 18" - 30"	1	1
16409	SW24	035965064095	Adj. 24" - 40"	1	1

KNEE PADS

Rubber Knee Pads

- Made from comfortable foam rubber
- Single web strap holds them in place
- Strap will not slip or bind
- Replacement strap available



EDI	Part#	UPC#	Size	Box	Case
16412	823	035965064125	Knee Pads	1	20
16411	16411	035965164115	Replacement Straps	1pr	1pr

Neolite Knee Pads

- Tough construction to stand up under hard wear
- Neolite pads are felt lined and shaped to fit your knee
- One leather strap holds them in place
- Strap will not slip or bind



EDI	Part#	UPC#	Size	Box	Case
16410	821	035965164108	N/A	1	20

Professional Knee Pads

- Foam liner to absorb sharp loads on knee joint
- Liner held in place by four studs
- Pad nests in the flexible, non-slip shell
- Secured by two easy-to-adjust straps



EDI	Part#	UPC#	Size	Box	Case
16450	KP1	035965064507	N/A	1	12

Mayhew Tools

CHISELS

Cold Chisels

For cutting, shaping and removing metal softer than the cutting edge of the chisel.

Economy Finish

EDP No.	Tool No.	A Cuts (in)	B Body Size (in)	C Overall Lgth. (in)	Wt. (lbs)
70200	70	1/4	1/4	5	.070
70201	70	5/16	1/4	5	.070
70202	70	3/8	5/16	5-1/2	.128
70204	70	7/16	3/8	6	.198
70205	70	1/2	7/16	6	.246
70209	70	5/8	1/2	6-1/2	.370
70212	70	3/4	5/8	7	.602
70216	70	7/8	3/4	7-1/2	.900
70220	70	1	7/8	8	1.250
70223	70	1-1/8	7/8	8	1.332



Extra Long Economy Finish

EDP No.	Tool No.	A Cuts (in)	B Body Size (in)	C Overall Lgth. (in)	Wt. (lbs)
70207	110	1/2	7/16	12	.528
70210	110	5/8	1/2	12	.694
70213	110	3/4	5/8	12	1.094
70217	110	7/8	3/4	12	1.514
70219	110	7/8	3/4	18	2.358
70221	110	1	3/4	12	1.534



PUNCHES

Center Punches

For piercing, or marking for starting drills, in metal and other materials.

Economy Finish

EDP No.	Tool No.	A Cuts (in)	B Body Size (in)	C Overall Lgth. (in)	Wt. (lbs)
74000	415	1/4	3/32	4	.044
74001	415	5/16	5/32	4-1/2	.090
74002	415	3/8	3/16	5	.152
74003	416	1/2	5/16	6	.335
74004	416	5/8	3/8	6-1/4	.502



Prick Punches

For scribing lines into metal before cutting or riveting.

Full Finish

EDP No.	Tool No.	B Body Size (in)	C Overall Lgth. (in)	Wt. (lbs)
23000	410	1/4	4	.044
23001	410	5/16	4-1/2	.090
23002	410	3/8	5	.146
23003	402	1/2	6	.284



Solid Punches

For loosening frozen or tight pins and keys or knocking out rivets.

Full Finish

EDP No.	Tool No.	A Point Size (in)	B Body Size (in)	D Taper Lgth. (in)	C Overall Lgth. (in)	Wt. (lbs)
20004	400	1/16	3/8	1-1/2	5	.146
20000	400	3/32	3/8	1-1/2	5	.146
20001	400	1/8	3/8	1-1/2	5	.146
20005	400	5/32	3/8	1-1/2	5	.152
20002	400	3/16	3/8	1-1/2	5	.152
20003	400	1/4	3/8	1-1/2	5	.154
20103	401	3/16	1/2	2	6	.296
20104	401	1/4	1/2	2	6	.300
20105	401	5/16	1/2	2	6	.332
20301	407	3/8	5/8	2-1/4	6-1/2	.540
20302	407	1/2	5/8	2-1/4	7	.630



MAYHEW TOOLS

Line-Up Punch

For aligning holes in metal pieces through which rivets, pins or bolts are inserted. Do not use for driving.

Full Finish

EDP No.	Tool No.	A Point Size (in)	B Body Size (in)	D Taper Lgth. (in)	C Overall Lgth. (in)	Wt. (lbs)
22021	466	3/32	5/16	3-1/2	8	.130
22010	466	1/8	5/16	3-1/2	8	.148
22000	453	5/32	1/2	4-1/2	8	.348
22011	466	5/32	3/8	4-1/2	9	.230
22012	467	3/16	1/2	5	10	.438
22025	467	7/32	1/2	5	10	.448
22003	458	1/4	5/8	7-1/4	12	.822
22005	460	1/4	3/4	7-1/4	15	1.504
22013	458	5/16	5/8	7-1/4	12	.848
22017	460	3/8	3/4	8	15	1.716
22024	464	1/2	7/8	7-1/2	18	2.874
22006	461	3/16	3/8	6	12	.329
22007	462	1/4	1/2	7-1/2	14	.644
22008	463	5/16	5/8	9	16	1.164

Pin Punches

For driving out and removing already loosened pins and keys after initial movement by a solid punch.

Full Finish

EDP No.	Tool No.	A Point Size (in)	B Body Size (in)	D Taper Lgth. (in)	C Overall Lgth. (in)	Wt. (lbs)
21000	413	1/16	1/4	3/4	4	.045
21001	413	3/32	5/16	7/8	4-1/2	.090
21002	413	1/8	5/16	1	4-3/4	.090
21003	413	5/32	5/16	1	5	.096
21004	413	3/16	3/8	1-1/4	5-1/4	.155
21011	413	7/32	3/8	1-1/4	5-1/2	.152
21005	413	1/4	3/8	1-1/4	5-3/4	.168
21019	413	5/16	7/16	1-1/4	6	.244
21100	414	3/16	1/2	1-1/4	6	.272
21103	414	1/4	1/2	1-1/4	6	.284
21104	414	5/16	1/2	1-1/4	6	.341
21105	414	3/8	1/2	1-1/4	6	.349
21302	418	3/8	5/8	2-1/4	8	.600
21400	419	7/16	3/4	2-1/4	10	1.066
21401	419	1/2	3/4	2-1/4	10	1.086

Extra Long

Full Finish

EDP No.	Tool No.	A Point Size (in)	B Body Size (in)	D Taper Lgth. (in)	C Overall Lgth. (in)	Wt. (lbs)
21500	443	1/8	5/16	3-1/2	8	.118
21506	443	5/32	5/16	3-1/2	8	.119
21501	443	3/16	3/8	3-1/2	8	.162
21505	443	7/32	3/8	3-1/2	8	.176
21502	443	1/4	3/8	3-1/2	8	.190
21503	443	5/16	7/16	3-1/2	8	.280
21504	443	3/8	1/2	3-1/2	8	.376

Nail Sets – 435 series

Drive nails to surface level or below without denting the wood.

EDP No.	Point Size (in)	A Sq. Head Size (in)	B Overall Lgth. (in)	C Wt. (lbs)
26000	1/32	11/32	4	.074
26001	2/32	11/32	4	.074
26002	3/32	11/32	4	.075
26003	4/32	11/32	4	.075
26004	5/32	11/32	4	.076

MASONRY TOOLS

Brick Set – Economy Finish

For scoring and trimming concrete blocks and masonry bricks.

EDP No.	Tool No.	A Cut (in)	B Body Size (in)	C Overall Lgth. (in)	Wt. (lbs)
12300	780	3	7/8	7-3/4	1.324
12301	781	3-1/2	1	7-1/2	1.696
12302	782	4	1	7-1/2	1.662



Mason's Chisels – ECONOMY FINISH

For cutting, scoring and shaping cement, cinder blocks, brick and stone.

EDP No.	Tool No.	A Cut (in)	B Body Size (in)	C Overall Lgth. (in)	Wt. (lbs)
30200	770	1-3/4	5/8	7-1/2	.662
30201	771	1-1/4	3/4	7-1/2	1.000
30202	772	2-1/4	5/8	7-1/2	.700



Floor Chisels – ECONOMY FINISH

Thin cutting blade for rough cutting and trimming of wood and for prying tongue and grooves together.

EDP No.	Tool No.	A Cut (in)	B Body Size (in)	C Overall Lgth. (in)	Wt. (lbs)
12309	949	2	5/8	10	.890
12310	950	2-1/2	5/8	10-1/2	.918
12311	951	3	3/4	11	1.380



BARS

Pry Bars (Screwdriver Type)

For prying and lifting.

- The entire length of the blade is heat-treated.
- The cellulose acetate handle is ergonomically designed to provide a more comfortable and secure grip.
- Curved blade style gives extra leverage.

EDP No.	Tool No.	Overall Lth. (in)/ Blade Style	B Body Size (in)	C Overall Lgth. (in)	Wt. (lbs)
40135	8-C	3-3/4" Curved Blade	1/4	8	0.25
40105	8-S	8" Straight Blade	3/8	13	0.40
40106	12-S	12" Straight Blade	3/8	17	0.53
40108	18-S	18" Straight Blade	1/2	25	1.50
40113	24-S	24" Straight Blade	1/2	31	2.00
40110	7-C	7" Curved Blade	3/8	12	0.33
40111	12-C	12" Curved Blade	3/8	17	0.53
40112	18-C	18" Curved Blade	1/8	25	1.50
40109	24-C	24" Curved Blade	1/2	31	2.00
40123	36-C	36" Curved Blade	5/8	36	3.50



Ladyfoot Pry Bars

The curved end ensures better leverage in small areas; other end for aligning work.

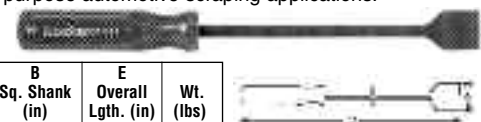
EDP No.	Tool No.	B Body Size (in)	C Overall Lgth. (in)	Wt. (lbs)
40150	424	7/16 Rnd.	12	.462
40152	426	9/16 Rnd.	16	1.052
40154	428	11/16 Rnd.	21	1.990



Carbon Scrapers

For a variety of multi-purpose automotive scraping applications.

EDP No.	Tool No.	A Cut (in)	B Sq. Shank (in)	E Overall Lgth. (in)	Wt. (lbs)
11110	850	3/4	5/16	11-7/8	.380
11111	851	1	5/16	11-7/8	.400
11112	852	1-1/2	5/16	11-7/8	.450



Hand Tools

MAYHEW TOOLS

HAND GUARDED

**THERE'S A STRIKING DIFFERENCE
IN HAND TOOLS FROM MAYHEW TOOLS!**

- Protects against misplaced hammer blows
- Absorbs the shock of the hammer blows
- Ergonomically designed to give a more comfortable and secure grip.

EDP No.	Tool No.	Pt./Cut (in)	Overall Lgth. (in)	Description	Wt. (lbs)
85220	110	1	12	Cold Chisel w/guard	1.82
85213	110	3/4	12	Cold Chisel w/guard	1.38
85217	110	7/8	12	Cold Chisel w/guard	2.00
85304	407	3/8	12	Solid Punch w/guard	0.81
85221	50	1	8	Cold Chisel w/guard	1.58
85212	70	3/4	7	Cold Chisel w/guard	0.88
85216	70	7/8	7-1/2	Cold Chisel w/guard	1.19
85770	770	1-3/4	7-1/2	Mason Chisel w/guard	0.94
85772	772	2-1/4	7-1/2	Mason Chisel w/guard	1.24
85777	777	2-1/4	7-1/2	Tooth Chisel w/guard	1.24
85780	780	3	7-3/4	Brick Set w/guard	1.93
85781	781	3-1/2	7-1/2	Brick Set w/guard	1.93
85782	782	4	7-1/2	Brick Set w/guard	1.97
85790	790	1-1/8	12	Flat Utility Chisel w/guard	1.24
85869	869	3/16	10-1/2	Plugging Chisel w/guard	1.21
85090	90	3/4	12	Bull Point Chisel w/guard	2.04
85092	92	7/8	12	Bull Point Chisel w/guard	2.19
85925	925	2-3/4	8	Electrician's Chisel w/guard	1.27
85949	949	2	10	Floor Chisel w/guard	1.50
85950	950	2-1/2	10-1/2	Floor Chisel w/guard	1.57
85951	951	3	11	Floor Chisel w/guard	1.63
85999	Handguarded (GUARD ONLY) (Fits on tools with a diameter of 5/8" to 3/4")				0.27



KITS

6 Pc. Punch and Chisel Kit

Finish	EDP No.	Kit No.	Wt. (lbs)
Economy	76005	751-K	1.25

Tool Description	Tool No.	Pt./Cut (in)	Body Size (in)	Taper/Pin Lgth. (in)	Overall Lgth. (in)
Pin Punch	413	1/8	5/16	1	4-3/4
	413	3/16	3/8	1-1/4	5-1/4
Center Punch	415	3/16	3/8	—	5
Solid Punch	400	3/16	3/8	1-1/4	5
	70	1/2	7/16	—	6
	70	5/8	1/2	—	6-1/2



8 Pc. Punch and Chisel Kit

Finish	EDP No.	Kit No.	Wt. (lbs)
Economy	61025	754-K	1.53

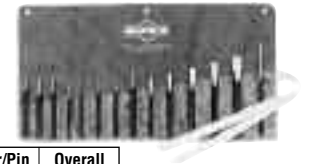
Tool Description	Tool No.	Pt./Cut (in)	Body Size (in)	Taper/Pin Lgth. (in)	Overall Lgth. (in)
Pin Punch	413	1/8	5/16	1	4-3/4
	413	3/16	3/8	1-1/4	5-1/4
	413	1/4	3/8	1-1/4	5-3/4
Center Punch	415	3/16	3/8	—	5
Solid Punch	400	3/16	3/8	1-1/4	5
Cold Chisel	70	3/8	5/16	—	5-1/2
	70	5/8	1/2	—	6-1/2
	70	1/2	7/16	—	6



14 Pc. Punch and Chisel Kit

Finish	EDP No.	Kit No.	Wt. (lbs)
Full Economy	61044	7014-K	2.85
	76044	7014-K	2.85

Tool Description	Tool No.	Pt./Cut (in)	Body Size (in)	Taper/Pin Lgth. (in)	Overall Lgth. (in)
Center Punch	415	3/8	3/8	—	5
Solid Punch	400	1/8	3/8	1-1/2	5
	400	3/16	3/8	1-1/2	5
Pin Punch	413	3/32	5/16	7/8	4-1/2
	413	1/8	5/16	1	4-3/4
	413	5/32	5/16	1	5
	413	3/16	3/8	1-1/4	5-1/4
	413	1/4	3/8	1-1/4	5-3/4
Line-Up Punch	466	1/8	5/16	3-1/2	8
Cold Chisel	70	1/4	1/4	—	5
	70	3/8	5/16	—	5-1/2
	70	1/2	7/16	—	6
	70	5/8	1/2	—	6-1/2
	70	3/4	5/8	—	7



HOLLOW PUNCHES

For cutting out washers and sealing rings in a multitude of different materials including foam, cardboard, leather, rubber fiber, plastic, gasket material and lead.

16 Pc. Hollow Punch Tool Kit

Set	EDP No.	Kit No.	Wt. (lbs)
Inch	66000	330US	2.47
Metric	66004	330CM	2.47

15 Punch sizes: 1/8", 3/16", 1/4", 5/16", 3/8", 7/16", 1/2", 9/16", 5/8", 3/4", 7/8", 1", 1-1/16", 1-1/8", 1-3/8", 1-3/16" with handle

15 Punch sizes: 3mm, 4mm, 6mm, 8mm, 10mm, 12mm, 14mm, 16mm, 18mm, 20mm, 22mm, 24mm, 26mm, 28mm, 30mm with handle



27 Pc. Hollow Punch Tool Kit

Set	EDP No.	Kit No.	Wt. (lbs)
Inch	66002	350US	6.06
Metric	66006	250CM	6.06

25 Punch sizes: 1/8", 3/16", 1/4", 5/16", 3/8", 7/16", 1/2", 9/16", 5/8", 3/4", 7/8", 1", 1-1/16", 1-1/8", 1-3/16", 1-1/4", 1-5/16", 1-3/8", 1-7/16", 1-1/2", 1-5/8", 1-11/16", 1-3/4", 1-7/8", 2" with mandrin and handle

29 Punch sizes: 2mm, 3mm, 4mm, 5mm, 6mm, 7mm, 8mm, 9mm, 10mm, 12mm, 14mm, 16mm, 18mm, 20mm, 22mm, 24mm, 26mm, 28mm, 30mm, 32mm, 34mm, 36mm, 38mm, 40mm, 42mm, 44mm, 46mm, 48mm, 50mm with mandrin and handle



6 Pc. Cold Chisel Kit

Finish	EDP No.	Kit No.	Wt. (lbs)
Full Finish	60560	7001-K	1.56
Economy Finish	76560	7001-K	1.56

Tool Description	Tool No.	Cut (in)	Body Size (in)	Overall Lgth. (in)
Cold Chisel	70	1/4	1/4	5
	70	5/16	1/4	5
	70	3/8	5/16	5-1/2
	70	1/2	7/16	6
	70	5/8	1/2	6-1/2
	70	3/4	5/8	7



5 Pc. Punch Kit

Finish	EDP No.	Kit No.	Wt. (lbs)
Full Finish	62020	4105-K	0.70

Tool Description	Tool No.	Pt. (in)	Body Size (in)	Taper/Pin Lgth. (in)	Overall Lgt. (in)
Solid Punch	400	3/16	3/8	1-1/4	5
Pin Punch	413	1/8	5/16	1	4-3/4
	413	5/32	5/16	1	5
	413	3/16	3/8	1-1/4	5-1/4
	413	1/4	3/8	1-1/4	5-3/4



MAYHEW TOOLS

KITS

6 Pc. Punch and Chisel Kit

Finish	EDP No.	Kit No.	Wt. (lbs)
Economy	76005	751-K	1.25

Tool Description	Tool No.	Pt./Cut (in)	Body Size (in)	Taper/Pin Lgth. (in)	Overall Lgth. (in)
Pin Punch	413	1/8	5/16	1	4-3/4
	413	3/16	3/8	1-1/4	5-1/4
	413	1/4	3/8	1-1/4	5-3/4
Center Punch	415	3/16	3/8	—	5
Solid Punch Cold Chisel	400	3/16	3/8	1-1/4	5
	70	1/2	7/16	—	6
	70	5/8	1/2	—	6-1/2



8 Pc. Punch and Chisel Kit

Finish	EDP No.	Kit No.	Wt. (lbs)
Economy	61025	754-K	1.53

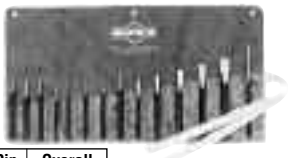
Tool Description	Tool No.	Pt./Cut (in)	Body Size (in)	Taper/Pin Lgth. (in)	Overall Lgth. (in)
Pin Punch	413	1/8	5/16	1	4-3/4
	413	3/16	3/8	1-1/4	5-1/4
	413	1/4	3/8	1-1/4	5-3/4
Center Punch	415	3/16	3/8	—	5
Solid Punch	400	3/16	3/8	1-1/4	5
Cold Chisel	70	3/8	5/16	—	5-1/2
	70	5/8	1/2	—	6-1/2
	70	1/2	7/16	—	6



14 Pc. Punch and Chisel Kit

Finish	EDP No.	Kit No.	Wt. (lbs)
Full	61044	7014-K	2.85
Economy	76044	7014-K	2.85

Tool Description	Tool No.	Pt./Cut (in)	Body Size (in)	Taper/Pin Lgth. (in)	Overall Lgth. (in)
Center Punch	415	3/8	3/8	—	5
Solid Punch	400	1/8	3/8	1-1/2	5
	400	3/16	3/8	1-1/2	5
Pin Punch	413	3/32	5/16	7/8	4-1/2
	413	1/8	5/16	1	4-3/4
	413	5/32	5/16	1	5
	413	3/16	3/8	1-1/4	5-1/4
	413	1/4	3/8	1-1/4	5-3/4
Line-Up Punch	466	1/8	5/16	3-1/2	8
Cold Chisel	70	1/4	1/4	—	5
	70	3/8	5/16	—	5-1/2
	70	1/2	7/16	—	6
	70	5/8	1/2	—	6-1/2
	70	3/4	5/8	—	7



6 Pc. Cold Chisel Kit

Finish	EDP No.	Kit No.	Wt. (lbs)
Full Finish	60560	7001-K	1.56
Economy Finish	76560	7001-K	1.56

Tool Description	Tool No.	Cut (in)	Body Size (in)	Overall Lgth. (in)
Cold Chisel	70	1/4	1/4	5
	70	5/16	1/4	5
	70	3/8	5/16	5-1/2
	70	1/2	7/16	6
	70	5/8	1/2	6-1/2
	70	3/4	5/8	7



5 Pc. Punch Kit

Finish	EDP No.	Kit No.	Wt. (lbs)
Full Finish	62020	4105-K	0.70

Tool Description	Tool No.	Pt. (in)	Body Size (in)	Taper/Pin Lgth. (in)	Overall Lgt. (in)
Solid Punch	400	3/16	3/8	1-1/4	5
Pin Punch	413	1/8	5/16	1	4-3/4
	413	5/32	5/16	1	5
	413	3/16	3/8	1-1/4	5-1/4
	413	1/4	3/8	1-1/4	5-3/4



5 Pc. Pin Punch Kit

Finish	EDP No.	Kit No.	Wt. (lbs)
Full Finish	62056	704-K	0.79

Tool Description	Tool No.	Pt. (in)	Body Size (in)	Pin Lgth. (in)	Overall Lgth. (in)
Pin Punch	413	1/8	5/16	1	4-3/4
	413	5/32	5/16	1	5
	413	3/16	3/8	1-1/4	5-1/4
	413	1/4	3/8	1-1/4	5-3/4
	413	5/16	7/16	1-1/4	6



5 Pc. Extra Long Pin Punch Kit

Finish	EDP No.	Kit No.	Wt. (lbs)
Full Finish	62065	446-K	1.23
Economy Finish	76065	446-K	1.23

Tool Desc.	Tool No.	Pt. (in)	Body Size (in)	Pin Lgth. (in)	Overall Lgth. (in)
Pin Punch	443	1/8	5/16	3-1/2	8
	443	3/16	3/8	3-1/2	8
	443	1/4	3/8	3-1/2	8
	443	5/16	7/16	3-1/2	8
	443	3/8	1/2	3-1/2	8



6 Pc. Solid Punch Kit

Finish	EDP No.	Kit No.	Wt. (lbs)
Full Finish	61340	4006-K	1.16

Tool Desc.	Tool No.	Pt. (in)	Body Size (in)	Taper Lgth. (in)	Overall Lgth. (in)
Solid Punch	400	3/32	3/8	1-1/2	5
	400	1/8	3/8	1-1/2	5
	400	5/32	3/8	1-1/4	5
	400	3/16	3/8	1-1/4	5
	400	1/4	3/8	1-1/4	5
	401	5/16	1/2	2	6



6 Pc. Punch Kit

Finish	EDP No.	Kit No.	Wt. (lbs)
Full Finish	62030	4106-K	0.93
Economy Finish	76030	4106-K	0.93

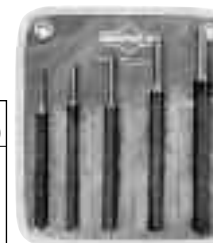
Tool Desc.	Tool No.	Pt. (in)	Body Size (in)	Taper/Pin Lgth. (in)	Overall Lgth. (in)
Center Punch	415	5/32	5/16	—	4-1/2
Prick Punch	410	—	3/8	—	5
Solid Punch	400	1/8	3/8	1-1/2	5
	400	3/16	3/8	1-1/4	5
Pin Punch	413	3/16	3/8	1-1/4	5-1/4
	413	1/4	3/8	1-1/4	5-3/4



6 Pc. Pilot Punch Kit

Finish	EDP No.	Kit No.	Wt. (lbs)
Economy Finish	62250	106-K	0.60

Tool Desc.	Tool No.	Pt. (in)	AKA #	Body Size (in)	Pin Lgth. (in)	Overall Lgth. (in)
Pilot Punch	112	1/8	4	1/4	2	4
	112	5/32	5	1/4	2-1/2	4-1/2
	112	3/16	6	3/8	2-1/2	4-1/2
	112	7/32	7	3/8	3	5
	112	1/4	8	7/16	3-1/2	5-1/2
	112	5/16	9	7/16	4	6



3 Pc. Pry Bar (Screwdriver Type) Set

EDP No.	Wt. (lbs)
61350	3.65

Tool Description	Tool No.	Blade Lth./Type	Overall Lgth. (in)
Pry Bar (Screwdriver Type)	7-C	7" Curved	12
Pry Bar (Screwdriver Type)	12-C	12" Curved	17
Pry Bar (Screwdriver Type)	18-C	18" Curved	25-1/4



Hand Tools

Morse Starrett/Bessey

Morse Starrett

Impact Type Wire Rope Cutters

MO-ST® Models 1, 1A & 2

The impact type wire rope cutters are the original portable tools invented by Morse-Starrett to cut wire rope. The cutters are actuated by striking with a hammer, they are easy to operate and do a superior cutting job with only a few blows of a hammer. These cutters are precision engineered to deliver a cut without affecting the original roundness of the wire rope. The blades and dies are made of the finest tool steel available, heat treated and ground to close tolerances.



Model No.	Description	Cap. (in)	Wt. (lbs)
1	Light Duty	3/4	8
1A	Heavy Duty	1-1/16	17
2	Extra Heavy Duty	1-1/2	28

Manually Operated Hydraulic Wire Rope Cutters

Hydrashear® Models W, P & C

The self-contained hydraulic cable cutter is a precision engineered tool designed to give a clean cut with minimum effort. Just pump the handle... no outside power is required. This self-contained portable tool can be easily carried and is used by contractors, rigging lofts and elevator repairmen. All three models will operate underwater. The Pell Hydrashear® is recommended by wire rope manufacturers and used by industries throughout the world. The blades and die sets are made of the finest tool steel available, heat treated and ground to close tolerances. This means a long life for the blades as well as superior performance. The hydraulic cutters are available in three sizes and capacities. The Model W has a 3/4" capacity, the Model P, a 1-1/8" capacity and the Model C has a 1-3/4" capacity.



Bessey

SLIDING ARM CLAMPS

Legendary Bessey Heat Treated Steel, Sliding Arm Clamps

These clamps offer a greater reach to eliminate the need to buy both regular AND deep throat clamps.

Bessey Heat Treated Steel, Sliding Arm Clamps feature the Patented Morpad - the replaceable pad that tilts to 35°

1800 Series/Medium Duty Clamps

- Two sizes - 8" and 12" openings
- 1800 lb. nominal clamping pressure

2400 Series/Regular Duty Clamps

- Seven sizes - from 6" to 60" openings
- 2660 lb. nominal clamping pressure

4800 Series/Heavy Duty Clamps

- For uses such as clamping 3/4" plate
- Five sizes - from 12" to 60" openings
- 4880 lb. nominal clamping pressure

7200 Series/Extra Heavy Duty Clamps

- For uses such as clamping 1" plate
- Safety wedge provides additional locking pressure on sliding arm
- Three sizes - from 12" to 40" openings
- 7770 lb. nominal clamping pressure

- continues -



Legendary Bessey Heat Treated Steel, Sliding Arm Clamps (continued)

Cat. No.	Throat Depth (in)	Clamping Capacity (in)	Clamping Force (lb)	Approx Weight (lb)
1800 Series Medium Duty Clamp - with Morpad				
1800-S8	8	4-3/4	1980	4
1800-S12	12	4-3/4	1980	4.75
1800-S18	18	4-3/4	1980	5.75
1800-S24	24	4-3/4	1980	6.25
2400 Series Regular Duty Clamp - with Morpad				
2400S-8	10	5-1/2	2800	5.50
2400S-12	12	5-1/2	2800	6.80
2400S-16	16	5-1/2	2800	7.15
2400S-20	20	5-1/2	2800	7.50
2400S-24	24	5-1/2	2800	7.85
2400S-36	36	5-1/2	2800	10.75
2400S-48	48	5-1/2	2800	12.30
2400S-60	60	5-1/2	2800	14.25
4800 Series Heavy Duty Clamps - with Morpad				
4800S-12	12	7	4880	12.00
4800S-18	18	7	4880	14.50
4800S-24	24	7	4880	16.00
4800S-36	36	7	4880	20.00
4800S-48	48	7	4880	22.00
4800S-60	60	7	4880	28.00
7200 Series Extra Heavy Duty Clamps - with Morpad				
7200S-12	12	8	7770	24.00
7200S-18	18	8	7770	28.00
7200S-36	36	8	7770	38.00

Shop Floor Clamps

- Forged sliding arm is made from tempered. Drop-forged steel for long service life.
- High-strength electro-galvanized sliding pin T-handle - rounded ends for comfort, size engineered to load capacity
- Heat treated, high carbon Acme threaded screw - tempered and quenched to give greater load capacity with longer service life. Spatter resistant.
- Tommy bar with rounded ends for comfort and simple transfer of force when clamping



Light Duty (MMS)

- Replaceable arms, spindles and MorPads are available for many shop floor steel clamps

Light Duty (660-S, 1200-S)

- Patented rail profile offers more clamp force with fewer spindle turns.
- New u-shaped sliding arm offers straight line power transmission. Great stability.

Medium Duty (SGL) and Regular Duty (SQ)

- Ergonomic grip is available as an accessory

Heavy Duty (STB)

- Tommy bar with rounded ends for comfort and simple transfer of force when clamping
- Comes standard with hex head spindle

Claw Clamp (CL)

- Spindle mechanism can be positioned outside working area for use in confined spaces
- Can be used as a spreader (needs optional CLS shoe)
- A special V-grooved pressure plate is made of high grade cast iron... swivels up to 30°
- Removable end stop to allow the sliding arm to be quickly turned around for spreading (needs optional CLS Shoe)

- continues -

Bessey

Shop Floor Clamps (continued)

Cat. No.	Throat Depth (in)	Clamping Capacity (in)	Clamping Force (lb)	Approx Weight (lb)
Light Duty Series				
MMS-4	2-1/4	4	400	.55
MMS-8	2-1/4	8	400	.70
MMS-12	2-1/4	12	400	.80
660-S8	4	8	726	1.85
660-S12	4	12	726	2.15
660-S18	4	18	726	2.75
1200-S8	5-1/2	8	1320	3.75
1200-S12	5-1/2	12	1320	4.25
1200-S18	4-3/4	18	1320	4.75
1200-S24	4-3/4	24	1320	5.25
Medium Duty Series				
SGL-8	4-3/4	8	1800	4.00
SGL-12	4-3/4	12	1800	4.75
SGL-18	4-3/4	18	1800	5.75
SGL-24	4-3/4	24	1800	6.25
Regular Duty Series				
SQ-4	4-3/4	6	1330	2.50
SQ-8	5-1/2	8	2660	5.50
SQ-12	5-1/2	12	2660	6.30
SQ-16	5-1/2	16	2660	7.00
SQ-20	5-1/2	20	2660	7.30
SQ-24	5-1/2	24	2660	8.00
Heavy Duty Series				
STB-12	7	12	4880	12.00
STB-18	7	18	4880	14.95
STB-24	7	24	4880	16.00
STB-36	7	36	4880	20.00
Claw Clamp				
CL-24	4	24	1775	7.15
CLS-Shoe				.75

SPECIALTY WELDING & INDUSTRIAL CLAMPS

Lever Clamp (CL)

- Large tilting pressure plate
- Patented rail profile offers more clamp force
- Trigger protection means fewer pinched fingers
- Secure ratchet mechanism
- New u-shaped sliding arm offers straight line power transmission. Great stability.



Cat. No.	Throat Depth (in)	Clamping Capacity (in)	Clamping Force (lb)	Approx Weight (lb)
Lever Clamps				
LC4	2-3/8	4	400	1.10
LC8	4	8	660	2.50
LC12	5-1/2	12	1200	5.00
LC20	4-3/4	20	1200	5.75
1800L12	5-1/2	10	1800	7.00

PowerGrip (PG) Heavy Duty One-Hand Clamp

- Easy slide button for positioning
- Pump handle to clamp with 100-200 lbs pressure
- Handle/Spindle combo. For heavy tightening



Cat. No.	Throat Depth (in)	Clamping Capacity (in)	Clamping Force (lb)	Approx Weight (lb)
Lever Clamps				
PG-12	4	12	1110	2.4
PG-24	4	24	1110	3.5

WSM Welders' Angle Clamp

One Handed, Self-Centering Jig & Fixture Clamps

- Combination floating head and rotating spindle holds, fixes and aligns different material thickness at a 90 degree angle. Ideal for plates, angle iron, square tubing, pipe, channel iron, etc.
- Made of spheroidal cast iron for use as heavy duty welders' vise
- Copper plated Acme screw protects against weld splatter.
- Slotted base holes mount easily to work table.
- High wall construction easily holds pipe and square tubing.



Product #	Jaw Height (in)	Capacity for Both Sides (in)	Max Passage for Mitres (in)	Approx. Weight (lbs)
WSM-9	1-3/8	7	3-1/2	8.10
WSM-12	2-3/8	9-1/2	4-3/4	16.55

Welders' Multi-Angle Vise Set

Dual vises that swivel independently 5° to 180° on base plate

- Vises come with locking set screw to position and lock vise at pre-determined angle for repetitive work
- Copper plated Acme screw protects against weld spatter
- Made of spheroidal cast iron making it a heavy duty welders' vise
- Slotted base holes provide easy mounting to work table
- Vises can be removed from base plate to be used independently as welders' vises



Product #	Jaw Height (in)	Clamping Capacity (in)	Range of Angles	Approx. Weight (lbs)
WVS-4	1-3/8	4-3/8	5-180°	23.00

Bessey Welders' Corner Clamps

- Economical alternative for fixed 90° angle for miter or butt joints
- Mounting holes to fix to work surface
- Adjusts to various sized work pieces with 2 spindles
- For light duty clamping

Cat No	Clamping Capacity	Angle	Approx Weight
WS-1	Up to 3in	90°	.50

SuperGrips™ Grip Pliers

- Adjustable screw/lock nut on top handle adjusts clamping force.
- Adjustable screw/lock nut on lower lever adjusts jaw angle (up to 7°) for clamping tapered parts.
- Infinitely adjustable jaw for a quick parallel clamp.
- Cold drawn profiled steel rail.



Cat. No.	Throat Depth (in)	Clamping Capacity (in)	Clamping Force (lb)	Approx Weight (lb)
SuperGrips with profiled rail				
SG-4WP	2-1/2	4	440	2.50
SG-8WP	2-1/2	8	440	2.70
SG Pads	Replaceable pads			.10
SuperGrips Pipe Clamp				
SG24-PC	2-3.4	4-1/2	310	2.75
SuperGrip Deep Reach Clamp				
SG5-DR	3	4-1/2	310	2.50

Hand Tools

Bessey

Variable Angle Device (VAD Pad)

- Floating pads tilt 60° inward or outward – ideal for clamping or aligning round, oval and angular pieces
- Easy to install and remove; swivel 360°
- Fits up to 2400 series clamps



Cat No	Range of Angle	Swivel	Approx Weight
VAD	up to 60°	360°	2.00

Jig and Fixture Clamp

- Portable clamp and bushing assembly for fast, secure clamping on any flat surface with appropriate hole
- Two position bushing assembly - use in either a fixed or rotating position
- Comes with 1-13/16" round bushing
- Full rotation through 360° radius for easier work set-up and positioning outside of work area



Cat No	Throat Depth (in)	Clamping Capacity (in)	Clamping Force (lb)	Approx Weight (lb)
FC24-8	5-1/2	8	2600	6.50

Bessey T-Bar Clamps

- Fast, easy adjustment of movable jaw simply slide to work piece, locate jaw at closest convenient hole in rail & lock jaw in position w/clamping pin.
- Sliding and adjustable jaws are malleable cast iron, "T" section rail is steel



Cat No	Throat Depth (in)	Clamping Capacity (in)	Clamping Force (lb)	Approx Weight (lb)
BT-36	2	39	3990	18.00
BT-96	2	98	3330	32.00
BT-120	2	120	2660	40.00

WORK HOLD DOWN SYSTEMS

Hold Down Table Clamps

- Vibration proof, ratchet action - fast and secure
- Ideal for machines equipped with "T" slots
- Lever mechanism for rapid clamping and release
- Tilting and height-adjustable
- Mounting hole accepts 5/8" diameter bolts



Cat No	Throat Depth (in)	Clamping Capacity (in)	Clamping Force (lb)	Approx Weight (lb)
2400HD-10	5-1/2	9-1/2	2220	7.85

Claw Machine Clamp

- Cantilever jaw for clamping in tight work areas with screw positioned outside of work area
- Full rotation through 360° radius for easier work set-up and positioning outside of work area



Cat No	Throat Depth (in)	Clamping Capacity (in)	Clamping Force (lb)	Approx Weight (lb)
MCL-8	4-3/4	8	1450	6.75

BAS Machine Clamping Systems

- Nominal clamping force of 3,600 lbs for shorter arms and 2,700 lbs for longer arms
- Space-saving design
- Fixing hole closed for M10/M12
- BAS-U has timesaving automatic clamping and release system

Cat No	Throat Depth (in)	Clamping Capacity (in)	Approx Weight (lb)
BAS-CB Compact Clamp: Closed Fixing Hole			
BAS-CB9-4	1-7/16	3-1/2	2.87
BAS-CB10-6	2-3/8	3-3/4	2.87
BAS-C Compact Clamp: Open Fixing Hole			
BAS-C9-4	1-7/16	3-1/2	2.87
BAS-C10-6	2-3/8	3-3/4	2.87
BAS-U Matic Clamp: Open Fixing Hole			
BAS-U9-4	1-7/8	3-1/2	2.76
BAS-U10-6	2-5/8	4	2.98



BASC 9-4

RiteHite Hold Down Clamps

- Self-positioning, single component design
- Swivel rocker attached to body
- For T-slot hold down tables in machine shop applications
- L Series has a longer throw than S series



RiteHite (single)

Cat No.	Bolt Size	Max Clamping Height	Dimensions (in)	Recommended Load Limit (lb)	Max Torque	Approx Weight (lb)
RiteHite - Standard Reach Model S						
376S	3/8	1	3x1-1/8x1-1/4	8800	55	.5
501S	1/2	1-3/4	4-1/4x1-7/16x1-1/2	13200	110	1.1
626S	1/2	2-3/4	5-1/2x1-3/4x1-5/8	19000	213	2.12
751S	3/4	3-1/2	7x2-1/8x2-1/4	27600	345	4.2
1001S	1	3	9x2-7/8x3-3/8	67000	1116	10.25
RiteHite - Long Reach Model L						
375L	3/8	1-1/4	3-3/4x1-1/8x1-1/4	7000	43	.56
500L	1/2	2-1/2	5-3/4x1-7/16x1-1/2	8800	73	1.5
625L	5/8	3-1/2	6-3/4x1-3/4x1-5/8	14500	163	2.62
750L	3/4	5	9x2-1/8x2-1/4	19000	237	5
1000L	1	5	11-1/8x2-7/8x3-3/8	51000	850	12.25

INDUSTRIAL & WELDERS' MAGNETS:

Multi-Purpose Magnetic Squares

- Quality magnets for fast, simple set-ups
- Flexibility - Often referred to as "an extra set of hands"
- Variety - The wide variety of BESSEY® industrial magnets will offer most metal workers an option that fits their needs
- Simple magnet holds work at set angle
- Double magnets are joined at a pivot point and can hold work at any angle
- Quality magnetic multi-angle square for fast, simple set-up



Cat No	Pull (lbs)	Nominal Dimensions (in)	Pre-set Angles	Approx Weight (lbs)
Magnetic Squares				
WMS-1	66	3-3/4 x 4-3/8 x 3/4	90/45°	1.10
WMS-3	48.5	3-3/8 x 3-3/8 x 5/8	90/45°	.70
WMS-5	112	3-3/4 x 4-3/8 x 3/4	90/45°	1.35
Double Magnetic Squares				
WMS-4	110	6-1/8 x 3-3/8 x 5/8	0 to 180°	1.30
Multi-Angle Magnetic Squares				
WMS-6	35	4 x 2-1/2 x 9/16	30/45/60/75/90°	.62

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Bessey

Multi-Purpose Magnetic Squares (continued)

Cat No	Pull (lbs)	Nominal Dimensions (in)	Pre-set Angles	Approx Weight (lbs)
Arrowhead Magnetic Squares				
WMS-7	41	4-3/4 x 3-1/4 x 9/16	90/45	.76
"Chunky" Magnetic Squares				
CMS-1	100	3-3/4 x 4-3/8 x 1-5/8	90/45	2.70
"Big Daddy" Magnetic Squares				
BDMS-1	100	8 x 8x1-5/8	90/45	7.70
"On/Off" Magnetic Squares				
WMS-8	75	3-3/8 x 4-3/8 x 1-1/4	90/45	2.25

Magnetic Ground Clamps

- Ground clamps only need base surface metal for clamping

Cat No	Pull (lbs)	Nominal Dimensions (in)	Pre-set Angles	Approx Weight (lbs)
MGC-1	55	3-1/2 x 2	250	1.75
MGC-2	55	3-1/2 x 2	800	1.85



MagWand

- Can collect up to 12 lb of swarf in a pass for a cleaner safer welding and machine shop
- Rolls easily over industrial work surfaces and dumps waste by simply pulling sliding magnetic insert



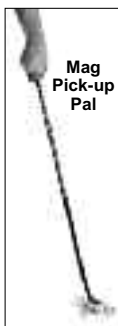
Mag Pick-Up

- Magnetic disc on 35" tubular shaft for picking up small metal parts – also useful during clean-up



MagStik

- 5-1/2" "pen-sized" pocket magnet extends to 26" to pick-up hard to reach small metal objects



MagSweep

- Rolling shop-floor magnet on wheels, 24" swath

Cat No	Description	Approx Weight (lbs)
MagWand		
MW-1	22" Length	1.70
Mag Pick-Up		
MPU-1	Magnetic disc on 35" tubular shaft	1.35
MagStik		
MS-1	Magnet on a 26" telescopic shaft, pocket clip	.16
MagSweep		
MSP-24	Shop floor magnet on wheels, 24" swath	45.00

BEARING HEATERS & ACCESSORIES

Reco Induction Bearing Heaters

- Extend bearing life and cut operating cost by eliminating hammering and pounding to cold-mount bearings
 - Works on bearings, sprockets, gears, couplings, sleeves
 - Reduces risk to operator from flames, torches or oil baths
 - Demagnetizes bearings – easy to use, ready in minutes
- Model SC110D (110V or 220V)**
- Bearing capacity: 4" x 11" O.D. (14"OD with optional raising blocks)
 - Computer chip monitors and stabilizes temperature
 - Display panel (pre-set times, temperatures) & auto shut off
- Model SC110V (110V or 220V)**
- Bearing capacity: 4" x 11" O.D. (14"OD with optional raising blocks)

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Reco Induction Bearing Heaters (continued)

Model BC (220V, or 440V or 550V)

- Bearing capacity: 7-1/2" x 22" O.D. (32"OD with optional raising blocks)

Model BC Special (110V or 220V)

- Bearing capacity: 11-1/2" x 22" O.D. (32"OD with optional raising blocks)

Cat No	Voltage	Standard Cross Bars	Optional Cross Bars	Approx Weight
SC 110D	110V (17amp)	3/4, 2	1/2", 1-1/4	56.00
SC 110V	110V (17 amp)	3/4, 2	1/2", 1-1/4	52.00
SC 220V	220V (9 amp)	3/4, 2	1/2", 1-1/4	52.00
BC 220V	220V (30 amp)	1-1/4, 3	3/4, 1, 2	200.00
BC 440V	440V (20 amp)	1-1/4, 3	3/4, 1, 2	200.00
BC 550V	550V (20 amp)	1-1/4, 3	3/4, 1, 2	200.00
BCS 220	220V (30 amp)	1-1/4, 3	1", 2	235.00
BCS 440	440V (20 amp)	1-1/4, 3	1", 2	235.00
BCS 550	550V (20 amp)	1-1/4, 3	1", 2	235.00

*Only available in the USA

CONTRACTOR & WOODWORKER CLAMPS:

Malleable Cast Bar Clamps

- Profiled rail is extremely rigid.
- Standard pads are field replaceable.
- Malleable cast jaws feature corrugated design for strength and durability.
- 2K composite handle with comfort insert or ergonomically shaped wood handle



Cat No	Throat Depth (in)	Clamping Capacity (in)	Clamping Force (lb)	Approx Weight (lb)
Light Duty with 2K Handle				
TGJ2.506+2K	2-1/2	6	600	1.50
TGJ2.512+2K	2-1/2	12	600	2.00
TGJ2.518+2k	2-1/2	18	600	2.30
TGJ2.524+2k	2-1/2	24	600	2.50
TGJ2.530+2k	2-1/2	30	600	3.00
TGJ2.536+2k	2-1/2	36	600	3.50
TG4.008+2k	4	8	880	2.50
TG4.012+2k	4	12	880	2.80
TG4.016+2k	4	16	880	3.00
TG4.024+2k	4	24	880	3.50
Light Duty with Wood Handle				
TGJ2.506	2-1/2	6	600	1.50
TGJ2.512	2-1/2	12	600	2.00
TGJ2.518	2-1/2	18	600	2.30
TGJ2.524	2-1/2	24	600	2.50
TGJ2.530	2-1/2	30	600	3.00
TGJ2.536	2-1/2	36	600	3.50
TG4.008	4	8	880	2.50
TG4.012	4	12	880	2.80
TG4.016	4	16	880	3.00
TG4.024	4	24	880	3.50
Medium Duty with 2k Handle				
TG4.512+2k	4-1/2	12	1000	3.30
TG4.518+2k	4-1/2	18	1000	4.05
TG4.524+2k	4-1/2	24	1000	4.80
TG4.530+2k	4-1/2	30	1000	5.55
TG4.540+2k	4-1/2	40	1000	6.30
TG5.512+2k	5-1/2	12	1320	5.00
TG5.518+2k	5-1/2	18	1320	5.65
TG5.524+2k	5-1/2	24	1320	6.30
TG7.016+2K	7	16	1320	6.00
TG7.024+2k	7	24	1320	7.00
TG7.048+2k	7	48	1320	10.00

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Hand Tools

Bessey/NES

Malleable Cast Bar Clamps (continued)

Cat No	Throat Depth (in)	Clamping Capacity (in)	Clamping Force (lb)	Approx Weight (lb)
Medium Duty with Wood Handle				
TG4.512	4-1/2	12	1000	3.30
TG4.518	4-1/2	18	1000	4.05
TG4.524	4-1/2	24	1000	4.80
TG4.530	4-1/2	30	1000	5.55
TG4.540	4-1/2	40	1000	6.30
TG5.512	5-1/2	12	1320	5.00
TG5.518	5-1/2	18	1320	5.65
TG5.524	5-1/2	24	1320	6.30
TG7.016	7	16	1320	6.00
TG7.024	7	24	1320	7.00
TG7.048	7	48	1320	10.00
Heavy Duty with 2K Handle				
TGK4.516+2k	4-1/2	16	1540	6.00
TGK4.524+2k	4-1/2	24	1540	7.00
TGK4.540+2k	4-1/2	40	1540	9.00
TGK4.550+2k	4-1/2	50	1540	10.50
TGK4.579+2k	4-1/2	79	1540	14.50
Deep Reach (Flat Rail)				
CDS24-10 WP	10	24	1550	12.50
CDS24-12 WP	12	24	1550	14.50
CDS24-20 WP	20	24	990	20.50
Light Duty (Flat Rail)				
TC4.008	4	8	800	2.85
Medium Duty (Flat Rail)				
TC4.512	4-1/2	12	950	3.36
TC5.512	5-1/2	12	1200	5.25
TC7.016	7	16	1200	6.25

Wood Handscrew Clamps

- Cold-drawn, carbon-steel spindles and swivel nuts
- Acme thread for quick clamping
- Large handles for comfort and torque
- Oiled maple jaws

Cat No	Jaw Length (in)	Clamping Capacity (in)	Throat Depth (in)	Spindle Diameter (in)	Approx Weight (lb)
HS-6	6	3	3	5/16	1.00
HS-8	8	5	4	7/16	1.25
LHS-10	10	7	6	7/16	2.24
HS-12	12	9-1/4	6	7/16	4.00



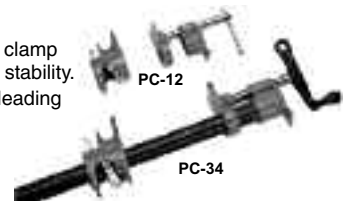
Angle and Miter Clamps

- Galvanized spindle, Acme thread
- Economical alternative for fixed 90° angle for miter or butt joints
- Mounting holes to fix to work surface
- Adjusts to various sized work pieces with 2 spindles
- For light duty clamping
- Ideal for securing glued miter joints and angled joint faces
- Used with BESSEY® TGK & TGJ bar clamps
- Ball and socket system applies direct force on angle for 15° to 180°

Cat No	Maximum Clamping Capacity (in)	Max Passage for Joints (in)	Approx Weight (lbs)
Angle Clamps			
WS-3	Both sides-max 4" thick	1-1/8	2.40
WS-6	Both sides-max 8" thick	2-7/16	5.25
Cat No	Clamping Capacity (in)	Angle	Approx Weight (lbs)
Corner Clamps			
WS-1	Up to 3" per side	90°	.50
Cat No	Set Contains		Approx Weight (lbs)
Irregular Angle Clamp Set			
ES Set	Includes 2 blocks and 2 caps		.85

Pipe Clamps

- "H" shape foot assembly stabilizes clamp in two dimensions giving dual-axis stability.
- Extra high base provides industry leading clearance from the work surface.
- Cast jaws for durability.
- Smooth action spindle.



Cat No	Black Pipe Diameter	Approx Weight
Pipe Clamp, H Style		
BPC-H34	3/4	3.05
BPC-H12	1/2	2.05
Pipe Clamp, Traditional Style		
PC34	3/4	2.40
PC12	1/2	1.65
PC34-DR	3/4	2.15

Steel Spring Clamps

- Vinyl tips and handles prevent marring
- Heavy duty springs for firm grip
- Nickel plating resists corrosion

Cat No	Throat Depth (in)	Clamping Capacity (in)	Approx Weight (lbs)
XM3	1	1-1/4	.17
XM5	2	2-1/4	.40
XM7	3	3-5/16	.80
XM10	4	5	1.00



Bessey Variable Angle Strap Clamp™

- Strap draws simultaneously from both sides ensuring pressure is applied equally on all corners without distortion.
- Integrated rewind mechanism operates by a cranking handle which eliminates tangling and damage to the band.
- Vario clip corners with twin-tilting pressure pads auto-adjust from 60° to 180° for easy assembly of any multi-angle project.
- The special woven polyester band guarantees a high resistance to tearing, and a clamping range of 23 ft. The steel wire loop opens quickly and simply to adjust or release glue-up.



Cat No	Clamping Capacity (in)	Range of Angle	Approx Weight (lbs)
VAS-23	up to 23 feet	60° to 180°	1.40

Nes

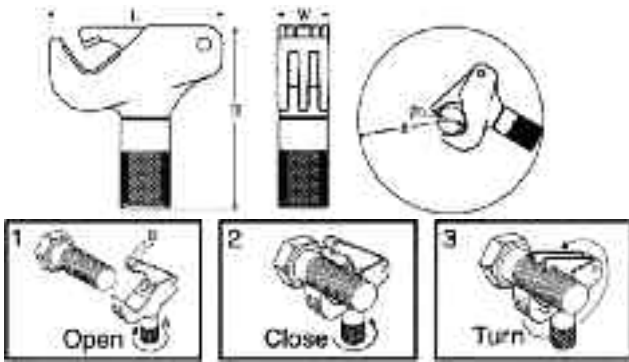
Nes - Universal Thread Restorer

- Adjusts automatically to any thread diameter and pitch.
- No measuring of thread required.
- Can be used on right or left hand threads.
- Applicable to all kinds of threads – both inch and metric.
- Two handed steel blades (58 RC), guided by the existing thread, regroove the damaged area.

An essential tool for anyone who deals with nuts and bolts in: Maintenance, garages, plumbing, construction, agriculture and engineering.

NES/Nicopress

Nes - Universal Thread Restorer



1 Turn handle (A) to raise blades (B). Place Nes over bolt to be repaired
2 Turn handle (A) to lower blades into grooves of thread and tighten lightly
3 Turn Nes in direction of the arrow

Nes1A

Cat No	OD Range	Pipes	L	W	H	R	Package Size			Wght (lb)
							W	H	H	
06001	5/32-11/16	up to 7/16	2-3/8	29/32	2-7/16	2-11/16	4-1/2	7-3/8		.5

Replacements Blades: RK1 60° Cat No 00010, RK1 55° Cat No 00020



Nes2

Cat No	OD Range	Pipes	L	W	H	R	Package Size			Wght (lb)
							W	H	H	
02000	1-1/16-1-1/2	3/8-1-1/8	4-1/8	1-1/2	4-5/16	4-5/8	5-5/16	8-1/8		1.2

Replacements Blades: RK2 60° Cat No 00030, RK2 55° Cat No 00040
For threads finer than 17 TPI or 1.5mm: RK2 60° Cat No 00031F, RK2 55° Cat No 00041F



Nes3

Cat No	OD Range	Pipes	L	W	H	R	Package Size			Wght (lb)
							L	W	H	
03000	1-3/8-6	1-5-1/2	12	1-3/4	5-1/8	10	12-3/8	2	5-1/2	4.0

Replacements Blades: RK3 60° Cat No 03010, RK3 55° Cat No 03020
For threads finer than 7 TPI or 3.5mm: RK3 60° Cat No 03011C, RK3 55° Cat No 03021C
For threads finer than 14 TPI or 1.75mm: RK3 60° Cat No 03010F, RK3 55° Cat No 03020F

- Adjusts automatically to any thread diameter and pitch, from 1-1/4" to 5"
- Applicable to all kinds of threads: inch and metric, right hand or left hand
- Two replaceable hardened tool steel bits (58RC), for fine coarse threads.
- Reversible blade - prevents damage to pipe surface
- Special aperture for extension rod (included) - for greater torque



NES - 1300

Cat No	L	W	H	Wght	Contents
01300	17	9-1/2	2-9/16	8.8	Nes 1 + RK1 Nes 2 + RK2 Nes 3 + RK3 + extension rod Nes Cleaner



NES - 1000

Cat No	L	W	H	Wght	Contents
01000	10-1/16	6	1-13/16	2.7	Nes 1a, RK1 60° Nes 2, RK2 60°



Nicopress

No. 17-BA Nicopress Tool

1/32" oval sleeves & stop sleeves can be pressed with this tool. Light weight and low cost, this handy field tool can be used with small diameter steel aircraft cable. Use the 17-BA tool to press Nicopress part Numbers 17-1-B & 27-1-B oval sleeves & the 871-32-B stop sleeve.

Tool Length 8-1/4"

Shipping Weight 3/4 lbs.

Important: Make two presses per sleeve.



No. 17-B4 Nicopress Tool

This tool used to press 3/64" oval sleeves onto steel aircraft cable. The 17-B4 tool will reach confined spaces which larger tools cannot. Use this tool to press Nicopress Part Numbers 18-11-B4, 28-11-B4, & 428-1.5-VB4 oval sleeves.

Tool Length 8-1/4"

Shipping Weight 3/4 lbs.

Important: Make three presses per sleeve.



No. 32-VC: VG Tool

A small hand tool with two sleeve-pressing grooves in the head. It is used for splicing with Nicopress Oval & Stop Sleeves having "C" or "G" letters in their stock Numbers.

Tool Length 11-1/2"

Shipping Weight 2-1/2 lbs.



No. 51 Tools

Each tool has a single sleeve-pressing groove in the head. Range accommodated - 3/64" through 7/32"

Tool Length 18-1/4"

Shipping Weight 5-1/4 lbs.



Type Nos. 63 & 64 Tools

These are multiple sleeve-pressing groove hand tools. The No. 63V-XPMP has three grooves & is used only with Oval Sleeves. For cable sizes 1/8", 5/32" & 3/16".

The No.64-CGMP has four grooves & is used for Oval Sleeves in the range of cable sizes from 1/16" through 5/32". The "C" groove is also used for the No. 871-1-C Stop Sleeve.

Tool Length 20"

Shipping Weight 6 lbs.



No. 51 Tools for Stop Sleeves

The No. 51-MJ hand tool with two sleeve-pressing grooves is used for all M & J lettered Nicopress Stop Sleeves for cable sizes 3/32" through 7/32". The "M" groove of this tool can also be used for the No. 18-3-M & No. 28-3-M Oval Sleeves.

The No. 51-Q-929 single-groove tool is used for galvanized steel Stop Sleeves No. 871-1-Q & No. 871-3-Q.

Tool Length 18-3/4"

Shipping Weight 5-1/4 lbs.



Hand Tools

Nicopress/OZAT

No. 3 Nicopress Tool

These hand tools have single sleeve pressing groove heads which are available in the following styles.

- No. 3-F6-950 – For Oval & Stop Sleeves having "F6" as part of their Stock Numbers.
- No. 3-F2-950 – For oval sleeves having "F2" as a part of their Stock Numbers.
- No. 3-G9-950 – For No. 18-13-G9 and No. 28-13-G9 Oval Sleeves for 5/16" cable.



Tool Length 33"

Shipping Weight 14-1/4 lbs.

Hydraulic Tool No. 635

Larger Nicopress sleeves require great pressing effort & the No. 635 Hydraulic Tool is made for this purpose. Use the No. 635 Hydraulic Tool to press the larger Nicopress oval sleeves and stop sleeves.



We manufacture 635 tool dies to press Nicopress sleeve sizes 3/64" thru 5/8".

For other sizes, please contact a sales rep. with your exact requirements.

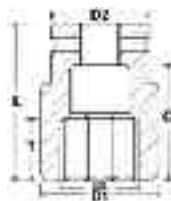
Gasoline & Electric
Powered Pumps Available

OZAT

SIX POINT FRACTIONAL SOCKETS 1" SQUARE DRIVE

Standard Fractional Sizes

Size (in)	Part No.	D1	D2	L	T	C
3/4	Z-1612	1.417	2.126	2.165	0.374	1.040
13/16	Z-1613	1.496	2.126	2.165	0.433	1.040
7/8	Z-1614	1.575	2.126	2.165	0.551	1.040
15/16	Z-1615	1.614	2.126	2.165	0.551	1.040
1	Z-1616	1.693	2.126	2.224	0.551	1.119
1-1/16	Z-1617	1.811	2.126	2.224	0.551	1.119
1-1/8	Z-1618	1.890	2.126	2.224	0.650	1.119
1-3/16	Z-1619	1.969	2.126	2.224	0.650	1.119
1-1/4	Z-1620	2.008	2.126	2.224	0.669	1.119
1-5/16	Z-1621	2.126	2.126	2.323	0.748	1.198
1-3/8	Z-1622	2.126	2.126	2.323	0.748	1.198
1-7/16	Z-1623	2.126	2.126	2.323	0.748	1.198
1-1/2	Z-1624	2.362	2.126	2.441	0.866	1.316
1-9/16	Z-1625	2.362	2.126	2.441	0.866	1.316
1-5/8	Z-1626	2.480	2.126	2.441	0.866	1.316
1-11/16	Z-1627	2.638	2.126	2.638	0.984	1.513
1-3/4	Z-1628	2.756	2.126	2.717	1.004	1.592
1-13/16	Z-1629	2.756	2.126	2.717	1.004	1.592
1-7/8	Z-1630	2.756	2.126	2.756	1.062	1.631
1-15/16	Z-1631	2.874	2.126	2.756	1.062	1.631
2	Z-1632	2.874	2.126	2.756	1.062	1.631
2-1/16	Z-1633	3.071	2.126	2.953	1.181	1.828
2-1/8	Z-1634	3.228	2.126	2.953	1.181	1.828
2-3/16	Z-1635	3.228	2.126	3.071	1.259	1.946
2-1/4	Z-1636	3.228	2.126	3.071	1.299	1.946
2-5/16	Z-1637	3.386	2.126	3.150	1.299	2.025
2-3/8	Z-1638	3.386	2.126	3.543	1.378	2.418
2-7/16	Z-1639	3.622	2.126	3.543	1.378	2.418
2-1/2	Z-1640	3.622	2.126	3.543	1.378	2.418
2-9/16	Z-1641	3.622	2.126	3.543	1.378	2.458
2-5/8	Z-1642	3.622	2.126	3.661	1.496	2.536
2-11/16	Z-1643	3.780	2.126	3.701	1.496	2.576
2-3/4	Z-1644	3.780	3.386	3.740	1.496	2.615
2-13/16	Z-1645	3.937	3.386	3.740	1.575	2.615
2-7/8	Z-1646	3.937	3.386	3.740	1.614	2.615
2-15/16	Z-1647	3.937	3.386	3.740	1.614	2.615
3	Z-1648	4.134	3.386	3.780	1.732	2.655
3-1/16	Z-1649	4.134	3.386	3.780	1.732	2.655
3-1/8	Z-1650	4.134	3.386	3.780	1.732	2.655
3-3/16	Z-1651	4.291	3.386	3.937	1.850	2.812
3-1/4	Z-1652	4.291	3.386	3.937	1.850	2.812
3-5/16	Z-1653	4.291	3.386	3.937	1.850	2.812
3-3/8	Z-1654	4.291	3.386	4.055	1.929	2.930
3-7/16	Z-1655	4.764	3.386	4.055	1.929	2.930
3-1/2	Z-1656	4.764	3.386	4.055	1.929	2.930



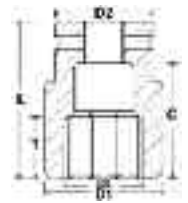
Standard Fractional Sizes (continued)

Size (in)	Part No.	D1	D2	L	T	C
3-9/16	Z-1657	5.000	3.386	4.055	1.890	2.930
3-5/8	Z-1658	5.118	3.386	4.055	1.929	2.930
3-11/16	Z-1659	5.118	3.386	4.055	1.929	2.930
3-3/4	Z-1660	5.315	3.386	4.370	1.929	3.245
3-13/16	Z-1661	5.315	3.386	4.370	2.125	3.245
3-7/8	Z-1662	5.315	3.386	4.370	2.125	3.245
3-15/16	Z-1663	5.315	3.386	4.370	2.125	3.245
4	Z-1664	5.512	5	4.370	2.125	3.245
4-1/16	Z-1665	4.512	5	4.370	2.125	3.245
4-1/8	Z-1666	5.709	5	4.370	2.125	3.245
4-3/16	Z-1667	5.709	5	4.370	2.441	3.245
4-1/4	Z-1668	5.709	5	4.724	2.441	3.599
4-5/16	Z-1669	5.906	5	4.724	2.441	3.599
4-3/8	Z-1670	5.906	5	4.724	2.441	3.599
4-7/16	Z-1671	6.102	5	4.724	2.441	3.599
4-1/2	Z-1672	6.102	5	4.724	2.441	3.599

ATP maintains "in stock" one of the broadest ranges of 1" drive sockets available to industry. OZAT 1" drive sizes are equally well suited for construction, maintenance, and heavy assembly application, as well as for precision bolting with hydraulic bolting equipment.

Deep Fractional Sizes

Size (in)	Part No.	D1	D2	L	T	C
3/4	Z-1612L	1.417	2.126	3.937	0.374	2.812
13/16	Z-1613L	1.496	2.126	3.937	0.433	2.812
7/8	Z-1614L	1.575	2.126	3.937	0.551	2.812
15/16	Z-1615L	1.614	2.126	3.937	0.551	2.812
1	Z-1616L	1.693	2.126	3.937	0.551	2.812
1-1/16	Z-1617L	1.811	2.126	3.937	0.551	2.812
1-1/8	Z-1618L	1.890	2.126	3.937	0.650	2.812
1-3/16	Z-1619L	1.969	2.126	3.937	0.650	2.812
1-1/4	Z-1620L	2.008	2.126	3.937	0.669	2.812
1-5/16	Z-1621L	2.126	2.126	3.937	0.748	2.812
1-3/8	Z-1622L	2.126	2.126	3.937	0.748	2.812
1-7/16	Z-1623L	2.126	2.126	3.937	0.748	2.812
1-1/2	Z-1624L	2.362	2.126	3.937	0.866	2.812
1-9/16	Z-1625L	2.362	2.126	3.937	0.866	2.812
1-5/8	Z-1626L	2.480	2.126	3.937	0.866	2.812
1-11/16	Z-1627L	2.638	2.126	3.937	0.984	2.812
1-3/4	Z-1628L	2.756	2.126	3.937	1.004	2.812
1-13/16	Z-1629L	2.756	2.126	3.937	1.004	2.812
1-7/8	Z-1630L	2.756	2.126	3.937	1.062	2.812
1-15/16	Z-1631L	2.874	2.126	3.937	1.062	2.812
2	Z-1632L	2.874	2.126	3.937	1.062	2.812
2-1/16	Z-1633L	3.071	2.126	4.094	1.181	2.969
2-1/8	Z-1634L	3.228	2.126	4.094	1.181	2.969
2-3/16	Z-1635L	3.228	2.126	4.213	1.259	3.088
2-1/4	Z-1636L	3.228	2.126	4.213	1.299	3.088
2-5/16	Z-1637L	3.386	2.126	4.291	1.299	3.166
2-3/8	Z-1638L	3.386	2.126	4.685	1.378	3.560
2-7/16	Z-1639L	3.622	2.126	4.685	1.378	3.560
2-1/2	Z-1640L	3.622	2.126	4.685	1.378	3.560
2-9/16	Z-1641L	3.622	2.126	4.724	1.378	3.599
2-5/8	Z-1642L	3.622	2.126	4.803	1.496	3.678
2-11/16	Z-1643L	3.780	2.126	4.843	1.496	3.718
2-3/4	Z-1644L	3.780	3.386	4.882	1.496	3.757
2-13/16	Z-1645L	3.937	3.386	4.882	1.575	3.757
2-7/8	Z-1646L	3.937	3.386	4.882	1.614	3.757
2-15/16	Z-1647L	3.937	3.386	4.882	1.614	3.757
3	Z-1648L	4.134	3.386	4.921	1.732	3.796
3-1/16	Z-1649L	4.134	3.386	4.921	1.732	3.796
3-1/8	Z-1650L	4.134	3.386	4.921	1.732	3.796
3-3/16	Z-1651L	4.291	3.386	5.079	1.850	3.954
3-1/4	Z-1652L	4.291	3.386	5.079	1.850	3.954
3-5/16	Z-1653L	4.291	3.386	5.079	1.850	3.954
3-3/8	Z-1654L	4.291	3.386	5.197	1.929	4.072
3-7/16	Z-1655L	4.764	3.386	5.197	1.929	4.072
3-1/2	Z-1656L	4.764	3.386	5.197	1.929	4.072
3-9/16	Z-1657L	5.000	3.386	5.197	1.890	4.072
3-5/8	Z-1658L	5.118	3.386	5.197	1.929	4.072
3-11/16	Z-1659L	5.118	3.386	5.197	1.929	4.072
3-3/4	Z-1660L	5.315	3.386	5.512	1.929	4.387
3-13/16	Z-1661L	5.315	3.386	5.512	2.125	4.387
3-7/8	Z-1662L	5.315	3.386	5.512	2.125	4.387
3-15/16	Z-1663L	5.315	3.386	5.512	2.125	4.387
4	Z-1664L	5.512	5.000	5.512	2.125	4.387
4-1/16	Z-1665L	4.512	5.000	5.512	2.125	4.387
4-1/8	Z-1666L	5.709	5.000	5.866	2.441	4.387
4-3/16	Z-1667L	5.709	5.000	5.512	2.441	4.387
4-1/4	Z-1668L	5.709	5.000	5.866	2.441	4.741
4-5/16	Z-1669L	5.906	5.000	5.866	2.441	4.741
4-3/8	Z-1670L	5.906	5.000	5.866	2.441	4.741
4-7/16	Z-1671L	6.102	5.000	5.866	2.441	4.741
4-1/2	Z-1672L	6.102	5.000	5.866	2.441	4.741

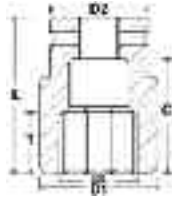


OZAT

Six Point Fractional Sockets
 1" Square Drive (continued)

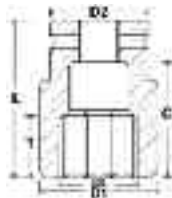
Deep Fractional Thinwall

Size (in)	Part No.	D1	D2	L	T	C
7/8	Z-1614LT	1.496	2.126	3.937	1.024	2.812
15/16	Z-1615LT	1.496	2.126	3.937	1.024	2.812
1	Z-1616LT	1.614	2.126	3.937	1.024	2.812
1-1/16	Z-1617LT	1.732	2.126	3.937	1.024	2.812
1-1/8	Z-1618LT	1.732	2.126	3.937	1.299	2.812
1-3/16	Z-1619LT	1.929	2.126	3.937	1.299	2.812
1-1/4	Z-1620LT	1.929	2.126	3.937	1.339	2.812
1-5/16	Z-1621LT	2.047	2.126	3.937	1.496	2.812
1-3/8	Z-1622LT	2.047	2.126	3.937	1.496	2.812
1-7/16	Z-1623LT	2.126	2.126	3.937	1.496	2.812
1-1/2	Z-1624LT	2.224	2.126	3.937	1.732	2.812
1-9/16	Z-1625LT	2.244	2.126	3.937	1.732	2.812
1-5/8	Z-1626LT	2.362	2.126	3.937	1.732	2.812
1-11/16	Z-1627LT	2.480	2.126	3.937	1.968	2.812
1-3/4	Z-1628LT	2.638	2.126	3.937	2.008	2.812
1-13/16	Z-1629LT	2.638	2.126	3.937	2.008	2.812



Standard Metric Sizes

Size (in)	Part No.	D1	D2	L	T	C
19	Z-16M19	36	54	55	9.5	26
20	Z-16M20	37	54	55	10	26
21	Z-16M21	38	54	55	10	26
22	Z-16M22	40	54	55	10	26
23	Z-16M23	41	54	55	12	26
24	Z-16M24	42	54	55	12	26
25	Z-16M25	43	54	55	13	26
26	Z-16M26	45	54	55	13	26
27	Z-16M27	46	54	55	13	26
28	Z-16M28	47	54	55	14	26
29	Z-16M29	48	54	57	14	28
30	Z-16M30	50	54	57	16.5	28
31	Z-16M31	51	54	57	16.5	28
32	Z-16M32	51	54	57	16.5	28
33	Z-16M33	54	54	57	17	28
34	Z-16M34	54	54	60	19	31
35	Z-16M35	54	54	60	19	31
36	Z-16M36	54	54	60	19	31
37	Z-16M37	57	54	60	19	31
38	Z-16M38	60	54	64	22	35
39	Z-16M39	60	54	64	21.5	35
40	Z-16M40	63	54	64	21.5	35
41	Z-16M41	63	54	64	22	35
42	Z-16M42	63	54	64	21.5	35
43	Z-16M43	67	54	69	25	40
44	Z-16M44	67	54	69	21.5	40
45	Z-16M45	70	54	69	21.5	40
46	Z-16M46	70	54	69	25.5	40
47	Z-16M47	70	54	69	23.5	40
48	Z-16M48	73	54	72	23.5	43
49	Z-16M49	73	54	72	27	43
50	Z-16M50	73	54	72	23.5	43
51	Z-16M51	73	54	72	27	43
52	Z-16M52	78	54	72	27	43
54	Z-16M54	82	54	76	30	47
55	Z-16M55	82	54	76	27	47
56	Z-16M56	82	54	75	28	46
57	Z-16M57	82	54	80	33	51
58	Z-16M58	86	54	75	28	46
59	Z-16M59	86	54	82	33	53
60	Z-16M60	86	54	75	28	46
61	Z-16M61	88	54	85	28	56
62	Z-16M62	92	54	85	35	56
65	Z-16M65	92	54	85	35	56
67	Z-16M67	92	54	91	38	62
70	Z-16M70	96	54	88	38	79
73	Z-16M73	100	86	92	41	83
75	Z-16M75	100	86	92	41	83
76	Z-16M76	105	86	97	44	68
77	Z-16M77	105	86	97	44	68
80	Z-16M80	105	86	88	37	59
85	Z-16M85	115	86	92	40	63
86	Z-16M86	115	86	104	49	75
90	Z-16M90	127	86	97	43	68
95	Z-16M95	135	86	106	49	77
100	Z-16M100	135	86	112	54	83
105	Z-16M105	145	127	112	54	83
110	Z-16M110	150	127	122	62	93
115	Z-16M115	155	127	120	57	91



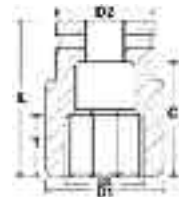
Deep Metric Thinwall

Size (in)	Part No.	D1	D2	L	T	C
22	Z-16M22LT	38	54	100	20	71
23	Z-16M23LT	38	54	100	24	71
24	Z-16M24LT	38	54	100	24	71
25	Z-16M25LT	41	54	100	26	71
26	Z-16M26LT	44	54	100	26	71
27	Z-16M27LT	44	54	100	26	71
28	Z-16M28LT	44	54	100	28	71
29	Z-16M29LT	44	54	100	28	71
30	Z-16M30LT	49	54	100	33	71
31	Z-16M31LT	49	54	100	33	71
32	Z-16M32LT	49	54	100	33	71
33	Z-16M33LT	52	54	100	34	71
34	Z-16M34LT	52	54	100	34	71
35	Z-16M35LT	52	54	100	38	71
36	Z-16M36LT	54	54	100	38	71
37	Z-16M37LT	54	54	100	38	71
38	Z-16M38LT	54	54	100	43	71
39	Z-16M39LT	54	54	100	43	71
40	Z-16M40LT	54	54	100	43	71
41	Z-16M41LT	54	54	100	44	71
42	Z-16M42LT	54	54	100	44	71
43	Z-16M43LT	54	54	100	50	71
44	Z-16M44LT	54	54	100	50	71
45	Z-16M45LT	54	54	100	51	71
46	Z-16M46LT	54	54	100	51	71



Deep Metric Sizes

Size (in)	Part No.	D1	D2	L	T	C
19	Z-16M19L	36	54	100	9.5	71
20	Z-16M20L	37	54	100	10	71
21	Z-16M21L	38	54	100	10	71
22	Z-16M22L	40	54	100	10	71
23	Z-16M23L	41	54	100	12	71
24	Z-16M24L	42	54	100	12	71
25	Z-16M25L	43	54	100	13	71
26	Z-16M26L	45	54	100	13	71
27	Z-16M27L	46	54	100	13	71
28	Z-16M28L	47	54	100	14	71
29	Z-16M29L	48	54	100	14	71
30	Z-16M30L	50	54	100	16.5	71
31	Z-16M31L	51	54	100	16.5	71
32	Z-16M32L	51	54	100	16.5	71
33	Z-16M33L	54	54	100	17	71
34	Z-16M34L	54	54	100	19	71
35	Z-16M35L	54	54	100	19	71
36	Z-16M36L	54	54	100	19	71
37	Z-16M37L	57	54	100	19	71
38	Z-16M38L	60	54	100	22	71
39	Z-16M39L	60	54	100	21.5	71
40	Z-16M40L	63	54	100	21.5	71
41	Z-16M41L	63	54	100	22	71
42	Z-16M42L	63	54	100	21.5	71
43	Z-16M43L	67	54	100	25	71
44	Z-16M44L	67	54	100	21.5	71
45	Z-16M45L	70	54	100	21.5	71
46	Z-16M46L	70	54	100	25.5	71
47	Z-16M47L	70	54	100	23.5	71
48	Z-16M48L	73	54	100	23.5	71
49	Z-16M49L	73	54	100	27	71
50	Z-16M50L	73	54	100	23.5	71
51	Z-16M51L	73	54	100	27	71
52	Z-16M52L	78	54	100	27	71
54	Z-16M54L	82	54	104	30	75
55	Z-16M55L	82	54	104	27	75
56	Z-16M56L	82	54	105	28	76
57	Z-16M57L	82	54	105	33	76
58	Z-16M58L	86	54	105	28	76
59	Z-16M59L	86	54	112	33	83
60	Z-16M60L	86	54	105	28	83
61	Z-16M61L	88	54	112	28	83
62	Z-16M62L	92	54	118	35	89
65	Z-16M65L	92	54	118	35	89
67	Z-16M67L	92	54	118	38	89
70	Z-16M70L	96	54	124	38	95
73	Z-16M73L	100	86	124	41	95
75	Z-16M75L	100	86	124	41	95
76	Z-16M76L	105	86	130	44	101
77	Z-16M77L	105	86	130	44	101
80	Z-16M80L	105	86	132	37	103



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Hand Tools

OZAT

Six Point Fractional Sockets 1" Square Drive (continued)

Deep Metric Sizes continued

Size (in)	Part No.	D1	D2	L	T	C
85	Z-16M85L	115	86	132	40	103
86	Z-16M86L	115	86	140	49	111
90	Z-16M90L	127	86	140	43	111
95	Z-16M95L	135	86	140	49	111
100	Z-16M100L	135	86	143	54	114
105	Z-16M105L	145	127	143	54	114
110	Z-16M110L	150	127	149	62	120
115	Z-16M115L	155	127	149	57	120

Hex Driver Sockets:

Fractional Sizes

Size (in)	Part No.	D1	L	T
1/2	Z-1608H	2.125	2.91	1.16
9/16	Z-1609H	2.125	2.91	1.16
5/8	Z-1610H	2.125	2.91	1.16
3/4	Z-1612H	2.125	2.91	1.16
13/16	Z-1613H	2.125	3.07	1.32
7/8	Z-1614H	2.125	3.07	1.32
1	Z-1616H	2.125	3.07	1.32
1-1/16	Z-1617H	2.125	3.23	1.48
1-1/8	Z-1618H	2.125	3.23	1.48
1-3/16	Z-1619H	2.125	3.23	1.48
1-1/4	Z-1620H	2.125	3.43	1.68

Metric Sizes

Size (in)	Part No.	D1	L	T
10	16M10H	2.125	2.91	1.16
12	16M12H	2.125	2.91	1.16
14	16M14H	2.125	2.91	1.16
17	16M17H	2.125	2.91	1.16
19	16M19H	2.125	2.91	1.16
22	16M22H	2.125	3.07	1.32
24	16M24H	2.125	3.07	1.32
27	16M27H	2.125	3.23	1.48
30	16M30H	2.125	3.23	1.48
32	16M32H	2.125	3.43	1.68

Budd Wheel Sockets

Size	Part No.	D1	D2	L	T
17	Z-16M17B	40	54	55	9
21	Z-16M21B	47	54	55	10
13/16	Z-1613B	1.85	2.125	2.165	0.472
15/16	Z-1615B	2.07	2.125	2.360	0.512
13/16	Z-1613BL	1.85	2.125	3.937	0.472
15/16	Z-1615BL	2.07	2.125	3.937	0.512
13/16 x 1-1/2	Z-1624BS	2.24	2.125	3.937	0.571



Double Square Impact Sockets:

Standard Fractional Sizes

Size	Part No.	D1	D2	L	T	C
1-5/16	DS-1621	2.480	2.126	2.883	0.748	1.283
1-3/8	DS-1622	2.638	2.362	2.283	0.748	1.283
1-7/16	DS-1623	2.638	2.362	2.283	0.748	1.283
1-1/2	DS-1624	2.756	2.362	2.441	0.866	1.441
1-9/16	DS-1625	3.071	2.362	2.441	0.866	1.441
1-5/8	DS-1626	3.071	2.362	2.441	0.866	1.441
1-11/16	DS-1627	3.228	2.362	2.638	0.984	1.638
1-3/4	DS-1628	3.228	2.362	2.638	1.005	1.638
1-13/16	DS-1629	3.386	2.362	2.638	1.005	1.638
1-7/8	DS-1630	3.386	2.362	2.756	1.063	1.756
2	DS-1632	3.622	2.362	2.756	1.063	1.756
2-1/8	DS-1634	3.937	2.362	2.953	1.181	1.953
2-3/16	DS-1635	3.937	2.362	3.071	1.260	2.071
2-1/4	DS-1636	3.937	2.362	3.071	1.260	2.071
2-3/8	DS-1638	4.134	2.362	3.228	1.378	2.228
2-1/2	DS-1640	4.291	2.362	3.465	1.378	2.465

Deep Fractional Sizes

Size	Part No.	D1	D2	L	T	C
1-5/16	DS-1621L	2.480	2.126	3.189	0.748	2.189
1-3/8	DS-1622L	2.638	2.362	3.189	0.748	2.189
1-7/16	DS-1623L	2.638	2.362	3.189	0.748	2.189
1-1/2	DS-1624L	2.756	2.362	3.425	0.866	2.425
1-9/16	DS-1625L	3.071	2.362	3.425	0.866	2.425
1-5/8	DS-1626L	3.071	2.362	3.465	0.866	2.465
1-11/16	DS-1627L	3.228	2.362	3.465	0.984	2.465
1-3/4	DS-1628L	3.228	2.362	3.465	1.005	2.465
1-13/16	DS-1629L	3.386	2.362	3.465	1.005	2.465
1-7/8	DS-1630L	3.386	2.362	3.465	1.063	2.465
2	DS-1632L	3.622	2.362	3.465	1.063	2.465
2-1/8	DS-1634L	3.937	2.362	3.819	1.181	2.819
2-3/16	DS-1635L	3.937	2.362	3.819	1.260	2.819
2-1/4	DS-1636L	3.937	2.362	3.937	1.260	2.937
2-3/8	DS-1638L	4.134	2.362	3.937	1.378	2.937
2-1/2	DS-1640L	4.291	2.362	3.937	1.378	2.937

Accessories:

Adapters

Part No.	D1	D2	L
A1612	1	3/4	2.750
A1624	1	1-1/2	3.346
A1695	1	#5 Spline	4.330

Extensions

Part No.	D1	L
E1604	2.125	4
E1605	2.125	5
E1606	2.125	6
E1607	2.125	7
E1610	2.125	10
E1613	2.125	13

Universal Joint

Size	Part No.
1	U1616

Double Ended Female Adapters

Part No.	D1	D2	L
AN1612	1	3/4	2.48
AN1616	1	1	2.32
AN2416	1	1-1/2	3.27

Double Ended Male Extensions

Part No.	D1	L
Z1603	1.3	3
Z1604	1.3	4
Z1605	1.3	5
Z1606	1.3	6
Z1607	1.3	7
Z1610	1.3	10
Z1613	1.3	13
Z1615	1.3	15
Z1616	1.3	16
Z1617	1.3	17

Retaining Rings And Pins

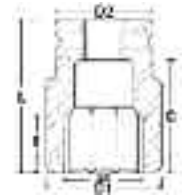
Square Drive	Through Hex Size	PIN No.	Ring No.
1	2-3/4 - 70mm	P1654	R1654
1	3-5/16 - 100mm	P1686	R1686
1	Above 3-5/16	P16127	R16127

SIX POINT IMPACT SOCKETS

1-1/2" SQUARE DRIVE:

Standard Fractional Sizes

Size	Part No.	D1	D2	L	T	C
1-5/16	Z-2421	2.402	3.386	2.953	0.748	1.328
1-3/8	Z-2422	2.480	3.386	2.953	0.748	1.328
1-7/16	Z-2423	2.520	3.386	3.150	0.748	1.525
1-1/2	Z-2424	2.520	3.386	3.150	0.866	1.525
1-9/16	Z-2425	2.677	3.386	3.150	0.866	1.525
1-5/8	Z-2426	2.795	3.386	3.150	0.866	1.525
1-11/16	Z-2427	2.874	3.386	3.150	0.984	1.525
1-3/4	Z-2428	2.953	3.386	3.150	1.004	1.525
1-13/16	Z-2429	2.953	3.386	3.150	1.004	1.525
1-7/8	Z-2430	3.150	3.386	3.228	1.036	1.603
1-15/16	Z-2431	3.150	3.386	3.228	1.063	1.603
2	Z-2432	3.150	3.386	3.228	1.063	1.603
2-1/16	Z-2433	3.386	3.386	3.465	1.181	1.840
2-1/8	Z-2434	3.386	3.386	3.465	1.181	1.840
2-3/16	Z-2435	3.386	3.386	3.583	1.260	1.958
2-1/4	Z-2436	3.386	3.386	3.583	1.280	1.958
2-5/16	Z-2437	3.622	3.386	3.583	1.300	1.958
2-3/8	Z-2438	3.622	3.386	3.740	1.378	2.115
2-7/16	Z-2439	3.780	3.386	3.740	1.378	2.115
2-1/2	Z-2440	3.937	3.386	3.740	1.378	2.115
2-9/16	Z-2441	3.937	3.386	3.740	1.378	2.115
2-5/8	Z-2442	3.937	3.386	3.937	1.496	2.312
2-11/16	Z-2443	4.134	3.386	3.937	1.496	2.312
2-3/4	Z-2444	4.134	3.386	3.937	1.496	2.312
2-13/16	Z-2445	4.291	3.386	4.134	1.575	2.509
2-7/8	Z-2446	4.291	3.386	4.134	1.614	2.509
2-15/16	Z-2447	4.291	3.386	4.134	1.614	2.509
3	Z-2448	4.528	3.386	4.331	1.732	2.706
3-1/16	Z-2449	4.528	3.386	4.331	1.732	2.706
3-1/8	Z-2450	4.528	3.386	4.331	1.770	2.706
3-3/16	Z-2451	4.764	3.386	4.724	1.850	3.099
3-1/4	Z-2452	4.764	3.386	4.724	1.850	3.099
3-5/16	Z-2453	4.764	3.386	4.724	1.850	3.099
3-3/8	Z-2454	5.000	3.386	4.724	1.930	3.099
3-7/16	Z-2455	5.000	3.386	4.724	1.930	3.099
3-1/2	Z-2456	5.118	3.386	4.724	1.930	3.099
3-9/16	Z-2457	5.118	3.386	4.724	1.930	3.099
3-5/8	Z-2458	5.315	5.000	4.921	1.930	3.099
3-11/16	Z-2459	5.315	5.000	4.921	1.930	3.099
3-3/4	Z-2460	5.315	5.000	4.921	1.930	3.296
3-13/16	Z-2461	5.512	5.000	4.921	2.125	3.296
3-7/8	Z-2462	5.512	5.000	4.921	2.125	3.296
3-15/16	Z-2463	5.512	5.000	4.921	2.125	3.296
4	Z-2464	5.709	5.000	4.921	2.125	3.296
4-1/16	Z-2465	5.709	5.000	4.921	2.125	3.296
4-1/8	Z-2466	5.906	5.000	4.921	2.126	3.296
4-3/16	Z-2467	5.906	5.000	4.921	2.440	3.296
4-1/4	Z-2468	5.906	5.000	5.315	2.440	3.690



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OZAT

Six Point Impact Sockets
1-1/2" Square Drive (continued):

Standard Fractional Sizes (continued)

Size	Part No.	D1	D2	L	T	C
4-5/16	Z-2469	6.102	5.000	5.315	2.440	3.690
4-3/8	Z-2470	6.102	5.000	5.315	2.440	3.690
4-7/16	Z-2471	6.102	5.000	5.315	2.440	3.690
4-1/2	Z-2472	6.299	5.000	5.315	2.440	3.690
4-5/8	Z-2474	6.496	5.000	5.709	2.640	4.084
4-3/4	Z-2476	6.693	5.000	5.709	2.640	4.084
4-7/8	Z-2478	6.693	5.000	7.709	2.640	4.084
5	Z-2480	7.087	5.000	5.906	2.830	4.281
5-1/8	Z-2482	7.087	5.000	6.299	2.990	4.674
5-3/16	Z-2483	7.087	5.000	6.299	2.990	4.674
5-1/4	Z-2484	7.480	5.000	5.283	2.980	4.574
5-3/8	Z-2486	7.480	5.000	6.299	2.990	4.674

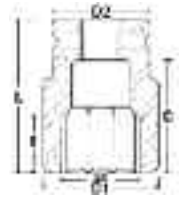
Deep Fractional Sizes

Size	Part No.	D1	D2	L	T	C
1-5/16	Z-2421L	2.402	3.386	5.512	0.748	3.887
1-3/8	Z-2422L	2.480	3.386	5.512	0.748	3.887
1-7/16	Z-2423L	2.520	3.386	5.512	0.748	3.887
1-1/2	Z-2424L	2.520	3.386	5.512	0.866	3.887
1-9/16	Z-2425L	2.677	3.386	5.512	0.866	3.887
1-5/8	Z-2426L	2.795	3.386	5.512	0.866	3.887
1-11/16	Z-2427L	2.874	3.386	5.512	0.984	3.887
1-3/4	Z-2428L	2.953	3.386	5.512	1.004	3.887
1-13/16	Z-2429L	2.953	3.386	5.512	1.004	3.887
1-7/8	Z-2430L	3.150	3.386	5.512	1.036	3.887
1-15/16	Z-2431L	3.150	3.386	5.512	1.063	3.887
2	Z-2432L	3.150	3.386	5.512	1.063	3.887
2-1/16	Z-2433L	3.386	3.386	5.512	1.181	3.887
2-1/8	Z-2434L	3.386	3.386	5.512	1.181	3.887
2-3/16	Z-2435L	3.386	3.386	5.512	1.260	3.887
2-1/4	Z-2436L	3.386	3.386	5.512	1.280	3.887
2-5/16	Z-2437L	3.622	3.386	5.512	1.300	3.887
2-3/8	Z-2438L	3.622	3.386	5.512	1.378	3.887
2-7/16	Z-2439L	3.780	3.386	5.512	1.378	3.887
2-1/2	Z-2440L	3.937	3.386	5.512	1.378	3.887
2-9/16	Z-2441L	3.937	3.386	5.512	1.378	3.887
2-5/8	Z-2442L	3.937	3.386	5.512	1.496	3.887
2-11/16	Z-2443L	4.134	3.386	5.512	1.496	3.887
2-3/4	Z-2444L	4.134	3.386	5.512	1.496	3.887
2-13/16	Z-2445L	4.291	3.386	5.512	1.575	3.887
2-7/8	Z-2446L	4.291	3.386	5.512	1.614	3.887
2-15/16	Z-2447L	4.291	3.386	5.512	1.614	3.887
3	Z-2448L	4.528	3.386	5.512	1.732	3.887
3-1/16	Z-2449L	4.528	3.386	5.512	1.732	3.887
3-1/8	Z-2450L	4.528	3.386	5.512	1.770	3.887
3-3/16	Z-2451L	4.764	3.386	5.512	1.850	3.887
3-1/4	Z-2452L	4.764	3.386	5.512	1.850	3.887
3-5/16	Z-2453L	4.764	3.386	5.512	1.850	3.887
3-3/8	Z-2454L	5.000	3.386	5.512	1.930	3.887
3-7/16	Z-2455L	5.000	3.386	5.512	1.930	3.887
3-1/2	Z-2456L	5.118	3.386	5.512	1.930	3.887
3-9/16	Z-2457L	5.118	3.386	5.512	1.930	3.887
3-5/8	Z-2458L	5.315	5.000	5.512	1.930	3.887
3-11/16	Z-2459L	5.315	5.000	5.906	1.930	4.281
3-3/4	Z-2460L	5.315	5.000	5.906	1.930	4.281
3-13/16	Z-2461L	5.512	5.000	5.906	2.125	4.281
3-7/8	Z-2462L	5.512	5.000	5.906	2.125	4.281
3-15/16	Z-2463L	5.512	5.000	5.906	2.125	4.281
4	Z-2464L	5.709	5.000	5.906	2.125	4.281
4-1/16	Z-2465L	5.709	5.000	5.906	2.125	4.281
4-1/8	Z-2466L	5.906	5.000	5.906	2.126	4.281
4-3/16	Z-2467L	5.906	5.000	5.906	2.440	4.281
4-1/4	Z-2468L	5.906	5.000	6.299	2.440	4.674
4-5/16	Z-2469L	6.102	5.000	6.299	2.440	2.674
4-3/8	Z-2470L	6.102	5.000	6.299	2.440	4.674
4-7/16	Z-2471L	6.102	5.000	6.299	2.440	4.674
4-1/2	Z-2472L	6.299	5.000	6.299	2.440	4.674
4-5/8	Z-2474L	6.496	5.000	6.693	2.640	5.068
4-3/4	Z-2476L	6.693	5.000	6.693	2.640	5.068
4-7/8	Z-2478L	6.693	5.000	6.693	2.640	5.068
5	Z-2480L	7.087	5.000	7.087	2.830	5.462
5-1/8	Z-2482L	7.087	5.000	7.286	2.990	5.658
5-3/16	Z-2483L	7.087	5.000	7.283	2.990	5.658
5-3/8	Z-2486L	7.480	5.000	7.283	2.990	5.658



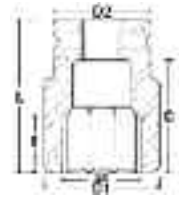
Standard Metric Sizes

Size	Part No.	D1	D2	L	T	C
32	Z-24M32	60	86	75	16.5	34
33	Z-24M33	60	86	75	17	34
34	Z-24M34	60	86	75	17	34
35	Z-24M35	60	86	75	19	34
36	Z-24M36	64	86	80	19	39
37	Z-24M37	64	86	80	19	39
38	Z-24M38	64	86	80	22	39
39	Z-24M39	70	86	80	21.5	39
40	Z-24M40	70	86	80	21.5	39
41	Z-24M41	70	86	80	22	39
42	Z-24M42	70	86	80	21.5	39
43	Z-24M43	75	86	80	25	39
44	Z-24M44	75	86	80	21.5	39
45	Z-24M45	75	86	80	21.5	39
46	Z-24M46	75	86	80	25.5	39
47	Z-24M47	75	86	80	23.5	39
48	Z-24M48	80	86	82	23.5	41
49	Z-24M49	80	86	82	27	41
50	Z-24M50	80	86	82	23.5	41
51	Z-24M51	80	86	82	27	41
52	Z-24M52	80	86	82	27	41
54	Z-24M54	86	86	89	30	47
55	Z-24M55	86	86	89	27	47
56	Z-24M56	86	86	92	28	50
57	Z-24M57	86	86	92	32.5	50
58	Z-24M58	92	86	92	28	50
59	Z-24M59	92	86	92	33	50
60	Z-24M60	92	86	92	28	50
61	Z-24M61	96	86	96	28	54
62	Z-24M62	96	86	96	35	54
65	Z-24M65	100	86	96	35	54
67	Z-24M67	100	86	101	38	59
70	Z-24M70	105	86	101	38	59
73	Z-24M73	109	86	105	41	64
75	Z-24M75	109	86	105	41	64
76	Z-24M76	115	86	110	44	69
80	Z-24M80	115	86	110	37	69
85	Z-24M85	121	86	116	40	79
86	Z-24M86	127	86	116	49	79
90	Z-24M90	130	86	118	43	79
95	Z-24M95	135	127	118	49	84
100	Z-24M100	140	127	125	54	84
105	Z-24M105	150	127	125	54	84
110	Z-24M110	155	127	137	62	94
115	Z-24M115	160	127	137	57	94
120	Z-24M120	165	127	145	67	104
125	Z-24M125	170	127	145	67	104
130	Z-24M130	180	127	158	76	119



Deep Metric Sizes

Size	Part No.	D1	D2	L	T	C
32	Z-24M32L	60	86	140	16.5	99
33	Z-24M33L	60	86	140	17	99
34	Z-24M34L	60	86	140	17	99
35	Z-24M35L	60	86	140	19	99
36	Z-24M36L	64	86	140	19	99
37	Z-24M37L	64	86	140	19	99
38	Z-24M38L	64	86	140	22	99
39	Z-24M39L	70	86	140	21.5	99
40	Z-24M40L	70	86	140	21.5	99
41	Z-24M41L	70	86	140	22	99
42	Z-24M42L	70	86	140	21.5	99
43	Z-24M43L	75	86	140	25	99
44	Z-24M44L	75	86	140	21.5	99
45	Z-24M45L	75	86	140	21.5	99
46	Z-24M46L	75	86	140	25.5	99
47	Z-24M47L	75	86	140	23.5	99
48	Z-24M48L	80	86	140	23.5	99
49	Z-24M49L	80	86	140	27	99
50	Z-24M50L	80	86	140	23.5	99
51	Z-24M51L	80	86	140	27	99
52	Z-24M52L	80	86	140	27	99
54	Z-24M54L	86	86	140	30	99
55	Z-24M55L	86	86	140	27	99
56	Z-24M56L	86	86	140	28	99
57	Z-24M57L	86	86	140	32.5	99
58	Z-24M58L	92	86	140	28	99
59	Z-24M59L	92	86	140	33	99
60	Z-24M60L	92	86	140	28	99
61	Z-24M61L	96	86	140	28	99
62	Z-24M62L	96	86	140	35	99



OZAT's exclusive electro chemical machining process, (ECM) produces a far stronger socket than one manufactured by conventional machining or broaching methods. The exceptional strength of the OZAT-1-1/2" drive sockets often makes them the preferred choice of hydraulic bolting specialists. Speciality sockets for the precision bolting market are available from ATP.

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Hand Tools

OZAT

**Six Point Impact Sockets
1-1/2" Square Drive (continued)**

Deep Metric Sizes (continued)

Size	Part No.	D1	D2	L	T	C
65	Z-24M65L	100	86	140	35	99
67	Z-24M67L	100	86	140	38	99
70	Z-24M70L	105	86	140	38	99
73	Z-24M73L	109	86	140	41	99
75	Z-24M75L	109	86	140	41	99
76	Z-24M76L	115	86	140	44	99
80	Z-24M80L	115	86	140	37	99
85	Z-24M85L	121	86	140	40	99
86	Z-24M86L	127	86	140	49	99
90	Z-24M90L	130	86	140	43	99
95	Z-24M95L	135	127	150	49	109
100	Z-24M100L	140	127	150	54	109
105	Z-24M105L	150	127	150	54	109
110	Z-24M110L	155	127	160	62	119
115	Z-24M115L	160	127	160	57	119
120	Z-24M120L	165	127	170	67	129
125	Z-24M125L	170	127	170	67	129
130	Z-24M130L	180	127	185	76	144

Accessories:

Adapters

Part No.	D1	D2	L
A2416	1-1/2	1	3.75
A2440	1-1/2	2-1/2	3.50
A2495	1-1/2	#5 Spline	4.33



Double Ended Female Adapters

Part No.	D1	D2	L
AN2416	1-1/2	1	3.27
AN2424	1-1/2	1-1/2	3.35
AN4024	1-1/2	2-1/2	4.53



Universal Joint

Size	Part No.
1-1/2	U2424



Extensions

Part No.	L
E2406	6
E2412	12



Double Ended Male Extensions

Part No.	D1	L
Z2404	1.93	4
Z2405	1.93	5
Z2410	1.93	10
Z2420	1.93	20



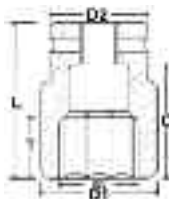
Retaining Pins And Rings

Square Drive	Through Hex Size	Pin No.	Ring No.
1-1/2	3-9/16-90mm	P2486	R2486
1-1/2	Above 3-9/16	P24127	R24127

**SIX POINT IMPACT SOCKETS
#5 SPLINE DRIVE**

Standard Fractional Sizes

Size	Part No.	D1	D2	L	T	C
3/4	Z-9512	1.890	2.362	2.756	0.374	1.006
13/16	Z-9513	1.890	2.362	2.756	0.435	1.006
7/8	Z-9514	1.890	2.362	2.756	0.512	1.006
15/16	Z-9515	1.890	2.362	2.756	0.512	1.006
1	Z-9516	1.929	2.362	2.756	0.512	1.006
1-1/16	Z-9517	2.008	2.362	2.756	0.512	1.006
1-1/8	Z-9518	2.008	2.362	2.756	0.650	1.006
1-3/16	Z-9519	2.126	2.362	2.756	0.650	1.006
1-1/4	Z-9520	2.362	2.362	2.953	0.669	1.203
1-5/16	Z-9521	2.362	2.362	3.031	0.748	1.281
1-3/8	Z-9522	2.362	2.362	3.031	0.748	1.281

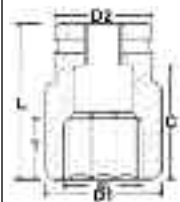


Standard Fractional Sizes (continued)

Size	Part No.	D1	D2	L	T	C
1-7/16	Z-9523	2.480	2.362	3.031	0.748	1.281
1-1/2	Z-9524	2.480	2.362	3.150	0.866	1.400
1-9/16	Z-9525	2.638	2.362	3.150	0.866	1.400
1-5/8	Z-9526	2.638	2.362	3.150	0.866	1.400
1-11/16	Z-9527	2.638	2.362	3.307	0.984	1.557
1-3/4	Z-9528	2.874	2.362	3.307	1.000	1.557
1-13/16	Z-9529	2.874	2.362	3.307	1.000	1.577
1-7/8	Z-9530	2.874	2.362	3.465	1.063	1.715
1-15/16	Z-9531	2.874	2.362	3.465	1.063	1.715
2	Z-9532	3.228	2.362	3.465	1.063	1.715
2-1/16	Z-9533	3.228	3.386	3.661	1.181	1.911
2-1/8	Z-9534	3.228	3.386	3.661	1.181	1.911
2-3/16	Z-9535	3.228	3.386	3.780	1.260	2.030
2-1/4	Z-9536	3.465	3.386	3.780	1.299	2.030
2-5/16	Z-9537	3.465	3.386	3.780	1.299	2.030
2-3/8	Z-9538	3.465	3.386	3.858	1.378	2.108
2-7/16	Z-9539	3.465	3.386	5.858	1.378	2.108
2-1/2	Z-9540	3.937	3.386	3.858	1.378	2.108
2-9/16	Z-9541	3.937	3.386	3.858	1.378	2.108
2-5/8	Z-9542	3.937	3.386	4.016	1.496	2.226
2-11/16	Z-9543	3.937	3.386	4.016	1.496	2.266
2-3/4	Z-9544	3.937	3.386	4.016	1.496	2.266
2-13/16	Z-9545	4.134	3.386	4.252	1.575	2.502
2-7/8	Z-9546	4.134	3.386	4.252	1.614	2.502
2-15/16	Z-9547	4.134	3.386	4.252	1.614	2.502
3	Z-9548	4.291	3.386	4.488	1.732	2.738
3-1/16	Z-9549	4.291	3.386	4.488	1.732	2.738
3-1/8	Z-9550	4.291	3.386	4.488	1.732	2.738
3-1/4	Z-9552	5.062	3.386	4.909	2.106	2.781
3-5/16	Z-9553	5.062	3.386	4.909	2.106	2.781
3-3/8	Z-9554	5.062	3.386	4.909	2.106	2.781
3-1/2	Z-9556	5.129	3.386	4.909	2.106	2.781
3-5/8	Z-9558	5.256	3.386	4.909	2.106	2.781
3-3/4	Z-9560	5.309	3.386	4.909	2.106	2.781
3-7/8	Z-9562	5.442	3.386	4.909	2.106	2.781
4	Z-9564	5.511	3.386	4.909	2.106	2.781

Deep Fractional Sizes

Sizes	Part No.	D1	D2	L	T	C
3/4	Z-9512L	1.890	2.362	6.299	0.374	4.549
13/16	Z-9513L	1.890	2.362	6.299	0.435	4.549
7/8	Z-9514L	1.890	2.362	6.299	0.512	4.549
15/16	Z-9515L	1.890	2.362	6.299	0.512	4.549
1	Z-9516L	1.929	2.362	6.299	0.512	4.549
1-1/16	Z-9517L	2.008	2.362	6.299	0.512	4.549
1-1/8	Z-9518L	2.008	2.362	6.299	0.650	4.549
1-3/16	Z-9519L	2.126	2.362	6.299	0.650	4.549
1-1/4	Z-9520L	2.362	2.362	6.299	0.669	4.549
1-5/16	Z-9521L	2.362	2.362	6.299	0.748	4.549
1-3/8	Z-9522L	2.362	2.362	6.299	0.748	4.549
1-7/16	Z-9523L	2.480	2.362	6.299	0.748	4.549
1-1/2	Z-9524L	2.480	2.362	6.299	0.866	4.549
1-9/16	Z-9525L	2.638	2.362	6.299	0.866	4.549
1-5/8	Z-9526L	2.638	2.362	6.299	0.866	4.549
1-11/16	Z-9527L	2.638	2.362	6.299	0.984	4.549
1-3/4	Z-9528L	2.874	2.362	6.299	1.000	4.549
1-13/16	Z-9529L	2.874	2.362	6.299	1.000	4.549
1-7/8	Z-9530L	2.874	2.362	6.299	1.063	4.549
1-15/16	Z-9531L	2.874	2.362	6.299	1.063	4.549
2	Z-9532L	3.228	2.362	6.299	1.063	4.549
2-1/16	Z-9533L	3.228	3.386	6.299	1.181	4.549
2-1/8	Z-9534L	3.228	3.386	6.299	1.181	4.549
2-3/16	Z-9535L	3.228	3.386	6.299	1.260	4.549
2-1/4	Z-9536L	3.465	3.386	6.299	1.299	4.549
2-5/16	Z-9537L	3.465	3.386	6.299	1.299	4.549
2-3/8	Z-9538L	3.465	3.386	6.299	1.378	4.549
2-7/16	Z-9539L	3.465	3.386	6.299	1.378	4.549
2-1/2	Z-9540L	3.937	3.386	6.299	1.378	4.549
2-9/16	Z-9541L	3.937	3.386	6.299	1.378	4.549
2-5/8	Z-9542L	3.937	3.386	6.299	1.496	4.549
2-11/16	Z-9543L	3.937	3.386	6.299	1.496	4.549
2-3/4	Z-9544L	3.937	3.386	6.299	1.496	4.549
2-13/16	Z-9545L	4.134	3.386	6.299	1.575	4.549
2-7/8	Z-9546L	4.134	3.386	6.299	1.614	4.549
2-15/16	Z-9547L	4.134	3.386	6.299	1.614	4.549
3	Z-9548L	4.291	3.386	6.378	1.732	4.628
3-1/16	Z-9549L	4.291	3.386	6.378	1.732	4.628
3-1/8	Z-9550L	4.291	3.386	6.378	1.732	4.628



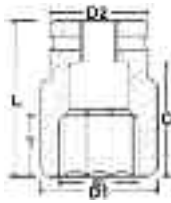
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OZAT

Six Point Impact Sockets
#5 Spline Drive (continued)

Standard Metric Sizes

Size	Part No.	D1	D2	L	T	C
19	Z-95M19	48	60	70	0.374	26
20	Z-95M20	48	60	70	0.394	26
21	Z-95M21	48	60	70	0.394	26
22	Z-95M22	48	60	70	0.394	26
23	Z-95M23	48	60	70	0.472	26
24	Z-95M24	49	60	70	0.472	26
25	Z-95M25	49	60	70	0.512	26
26	Z-95M26	51	60	70	0.512	26
27	Z-95M27	51	60	70	0.512	26
28	Z-95M28	51	60	70	0.551	26
29	Z-95M29	54	60	70	0.551	26
30	Z-95M30	54	60	70	0.650	26
31	Z-95M31	60	60	75	0.650	31
32	Z-95M32	60	60	75	0.650	31
33	Z-95M33	60	60	75	0.669	31
34	Z-95M34	60	60	77	0.669	33
35	Z-95M35	60	60	77	0.748	33
36	Z-95M36	63	60	77	0.748	33
37	Z-95M37	63	60	77	0.748	33
38	Z-95M38	63	60	80	0.866	36
39	Z-95M39	67	60	80	0.866	36
40	Z-95M40	67	60	80	0.866	36
41	Z-95M41	67	60	80	0.866	36
42	Z-95M42	67	60	80	0.846	36
43	Z-95M43	67	60	84	0.984	40
44	Z-95M44	73	60	84	0.846	40
45	Z-95M45	73	60	84	0.846	40
46	Z-95M46	73	60	84	1.004	40
47	Z-95M47	73	60	84	0.925	40
48	Z-95M48	73	60	88	0.925	44
49	Z-95M49	73	60	88	1.063	44
50	Z-95M50	82	60	88	0.925	44
51	Z-95M51	82	60	88	1.063	44
52	Z-95M52	82	60	88	1.063	44
54	Z-95M54	82	60	93	1.181	49
55	Z-95M55	82	60	93	1.063	49
56	Z-95M56	88	86	96	1.102	52
57	Z-95M57	88	76	96	1.299	52
58	Z-95M58	88	86	96	1.102	52
59	Z-95M59	88	86	96	1.299	52
60	Z-95M60	88	86	96	1.102	52
61	Z-95M61	88	86	98	1.102	54
62	Z-95M62	88	86	100	1.378	56
65	Z-95M65	100	86	100	1.378	56
67	Z-95M67	100	86	102	1.496	58
70	Z-95M70	100	86	102	1.496	58
73	Z-95M73	105	86	108	1.614	64
75	Z-95M75	105	86	108	1.614	64
76	Z-95M76	109	86	114	1.732	70
80	Z-95M80	115	86	114	1.457	70



Deep Metric Sizes (continued)

Size	Part No.	D1	D2	L	T	C
43	Z-95M43L	67	60	160	0.984	116
44	Z-95M44L	73	60	160	0.846	116
45	Z-95M45L	73	60	160	0.846	116
46	Z-95M46L	73	60	160	1.004	116
47	Z-95M47L	73	60	160	0.925	116
48	Z-95M48L	73	60	160	0.925	116
49	Z-95M49L	73	60	160	1.063	116
50	Z-95M50L	82	60	160	0.925	116
51	Z-95M51L	82	60	160	1.063	116
52	Z-95M52L	82	60	160	1.063	116
54	Z-95M54L	82	60	160	1.181	116
55	Z-95M55L	82	60	160	1.063	116
56	Z-95M56L	88	86	160	1.102	116
57	Z-95M57L	88	76	160	1.299	116
58	Z-95M58L	88	86	160	1.102	116
59	Z-95M59L	88	86	160	1.299	116
60	Z-95M60L	88	86	160	1.102	116
61	Z-95M61L	88	86	160	1.102	116
62	Z-95M62L	88	86	160	1.378	116
65	Z-95M65L	100	86	160	1.378	116
67	Z-95M67L	100	86	160	1.496	116
70	Z-95M70L	100	86	160	1.496	116
73	Z-95M73L	105	86	160	1.614	116
75	Z-95M75L	105	86	162	1.614	116
76	Z-95M76L	109	86	162	1.732	118
80	Z-95M80L	115	86	162	1.457	118

BUDD Wheel Sockets

Size	Part No.	D1	D2	L	T
13/16x1-1/2	Z-9524BS	2.48	2.36	4.133	0.571
13/16	Z-9513B	2.008	2.36	2.756	0.472

Accessories:

Adapters

Size	Part No.	D2
#5	A9516	1
#5	A9524	1-1/2
1-1/2	A2495	#5

Extensions

Part No.	L
E9508	8
E9515	15

Universal Joint

Size	Part No.
#5 Spline Drive	U9595

Retaining Rings and Pins

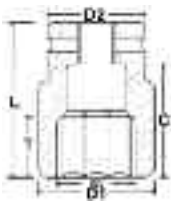
Spline Drive	Through Hex Size	Pin No.	Ring No.
#5	2-3/16 - 55mm	P9560	R9560
#5	Above 2-3/16	P9586	R9586

Universal Joint Repair Kits

Part No.	Description
95UK1	Retainer Kit Contents: Hex Plunger Lock Button, Inner & Outer Springs
95UK2	Pin Kit Contents: Drive Pin, Trunions, Spirol Pins
95UK3	Retrofit Kit Contents: All Parts From the Above 2 Kits

Deep Metric Sizes

Size	Part No.	D1	D2	L	T	C
19	Z-95M19L	48	60	160	0.374	116
20	Z-95M20L	48	60	160	0.394	116
21	Z-95M21L	48	60	160	0.394	116
22	Z-95M22L	48	60	160	0.394	116
23	Z-95M23L	48	60	160	0.472	116
24	Z-95M24L	49	60	160	0.472	116
25	Z-95M25L	49	60	160	0.512	116
26	Z-95M26L	51	60	160	0.512	116
27	Z-95M27L	51	60	160	0.512	116
28	Z-95M28L	51	60	160	0.551	116
29	Z-95M29L	54	60	160	0.551	116
30	Z-95M30L	54	60	160	0.650	116
31	Z-95M31L	60	60	160	0.650	116
32	Z-95M32L	60	60	160	0.650	116
33	Z-95M33L	60	60	160	0.669	116
34	Z-95M34L	60	60	160	0.669	116
35	Z-95M35L	60	60	160	0.748	116
36	Z-95M36L	63	60	160	0.748	116
37	Z-95M37L	63	60	160	0.748	116
38	Z-95M38L	63	60	160	0.866	116
39	Z-95M39L	67	60	160	0.866	116
40	Z-95M40L	67	60	160	0.866	116
41	Z-95M41L	67	60	160	0.866	116
42	Z-95M42L	67	60	160	0.846	116



FLAT STRIKING WRENCHES

- 12 POINT OPENING -

Fractional Sizes

Part No.	Sizes	D	C	L
FSW14	7/8	1-13/16	9/16	6-1/2
FSW15	15/16	1-13/16	9/16	6-1/2
FSW16	1	1-13/16	9/16	6-1/2
FSW17	1-1/16	1-13/16	5/8	7-1/16
FSW18	1-1/8	1-13/16	5/8	7-1/16
FSW19	1-3/16	2-1/16	11/16	7-1/2
FSW20	1-1/4	2-1/16	11/16	7-1/2
FSW21	1-5/16	2-1/16	11/16	7-1/2
FSW22	1-3/8	2-1/16	11/16	7-1/2
FSW23	1-7/16	2-15/16	11/16	8-1/16
FSW24	1-1/2	2-15/16	11/16	8-1/16
FSW25	1-9/16	2-15/16	11/16	8-1/16
FSW26	1-5/8	2-15/16	13/16	9-1/16
FSW27	1-11/16	2-15/16	13/16	9-1/16
FSW28	1-3/4	2-15/16	13/16	9-1/16



- continues -

Hand Tools

OZAT

**Flat Striking Wrenches
– 12 Point Opening – (continued)**

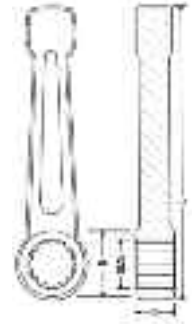
Fractional Sizes (continued)

Part No.	Sizes	D	C	L
FSW29	1-13/16	2-15/16	7/8	9-7/16
FSW30	1-7/8	2-15/16	7/8	9-7/16
FSW31	1-15/16	2-15/16	7/8	9-7/16
FSW32	2	3-1/8	15/16	10-1/16
FSW33	2-1/16	3-1/8	15/16	10-1/16
FSW34	2-1/8	3-1/8	15/16	10-1/16
FSW35	2-3/16	3-3/8	1	10-5/8
FSW36	2-1/4	3-3/8	1	10-5/8
FSW37	2-5/16	3-3/8	1	10-5/8
FSW38	2-3/8	3-11/16	1	11
FSW39	2-7/16	3-11/16	1	11
FSW40	2-1/2	3-11/16	1	11
FSW41	2-9/16	4	1-3/16	11-13/1
FSW42	2-5/8	4	1-3/16	11-13/1
FSW43	2-11/16	4	1-3/16	11-13/1
FSW44	2-3/4	4-5/16	1-5/16	13
FSW45	2-13/16	4-5/16	1-5/16	13
FSW46	2-7/8	4-5/16	1-5/16	13
FSW47	2-15/16	4-5/16	1-5/16	13
FSW48	3	4-5/16	1-5/16	13
FSW49	3-1/16	4-5/16	1-5/16	13
FSW50	3-1/8	4-15/16	1-7/16	14-3/16
FSW51	3-3/16	4-15/16	1-7/16	14-3/16
FSW52	3-1/4	4-15/16	1-7/16	14-3/16
FSW53	3-5/16	4-15/16	1-7/16	14-3/16
FSW54	3-3/8	4-15/16	1-7/16	14-3/16
FSW55	3-7/16	4-15/16	1-7/16	14-3/16
FSW56	3-1/2	4-15/16	1-7/16	14-3/16
FSW57	3-9/16	5-9/16	1-9/16	15-3/8
FSW58	3-5/8	5-9/16	1-9/16	15-3/8
FSW59	3-11/16	5-9/16	1-9/16	15-3/8
FSW60	3-3/4	5-9/16	1-9/16	15-3/8
FSW61	3-13/16	5-9/16	1-9/16	15-3/8
FSW62	3-7/8	5-9/16	1-9/16	15-3/8
FSW63	3-15/16	6-1/8	1-3/4	16-9/16
FSW64	4	6-1/8	1-3/4	16-9/16
FSW65	4-1/16	6-1/8	1-3/4	16-9/16
FSW66	4-1/8	6-1/8	1-3/4	16-9/16
FSW67	4-3/16	6-1/8	1-3/4	16-9/16
FSW68	4-1/4	6-1/8	1-3/4	16-9/16
FSW69	4-5/16	6-11/16	1-7/8	17-11/16
FSW70	4-3/8	6-11/16	1-7/8	17-11/16
FSW71	4-7/16	6-11/16	1-7/8	17-11/16
FSW72	4-1/2	6-11/16	1-7/8	17-11/16
FSW74	4-5/8	6-11/16	1-7/8	17-11/16
FSW76	4-3/4	7-3/16	2-1/8	18-7/8
FSW78	4-7/8	7-3/16	2-1/8	18-7/8
FSW80	5	7-3/16	2-1/8	18-7/8
FSW82	5-1/8	7-15/16	2-5/16	20-1/2
FSW83	5-3/16	7-15/16	2-5/16	20-1/2
FSW84	5-1/4	7-15/16	2-5/16	20-1/2
FSW86	5-3/8	7-15/16	2-5/16	20-1/2
FSW88	5-1/2	8-1/4	2-5/16	20-1/2
FSW90	5-5/8	8-1/4	2-5/16	20-1/2
FSW92	5-3/4	9	2-1/2	22-13/16
FSW94	5-7/8	9	2-1/2	22-13/16
FSW96	6	9	2-1/2	22-13/16
FSW98	6-1/8	9	2-1/2	22-13/16
FSW100	6-1/4	9	2-1/2	22-13/16
FSW102	6-3/8	9-7/16	2-1/2	22-13/16
FSW104	6-1/2	10-7/16	2-3/4	25-9/16
FSW106	6-5/8	10-7/16	2-3/4	25-9/16
FSW108	6-3/4	10-7/16	2-3/4	25-9/16
FSW110	6-7/8	10-7/16	2-3/4	25-9/16
FSW112	7	10-7/16	2-3/4	25-9/16
FSW114	7-1/8	10-7/16	2-3/4	25-9/16
FSW116	7-1/4	11-7/16	2-15/16	27-9/16
FSW118	7-3/8	11-7/16	2-15/16	27-9/16
FSW120	7-1/2	11-7/16	2-15/16	27-9/16
FSW122	7-5/8	11-7/16	2-15/16	27-9/16
FSW124	7-3/4	11-7/16	2-15/16	27-9/16
FSW125	7-13/16	11-7/16	2-15/16	27-9/16
FSW126	7-7/8	11-7/16	2-15/16	27-9/16
FSW128	8	11-7/16	2-15/16	27-9/16
FSW130	8-1/8	11-7/16	2-15/16	27-9/16
FSW132	8-1/4	12-5/8	3-1/8	29-1/2
FSW134	8-3/8	12-5/8	3-1/8	29-1/2
FSW136	8-1/2	12-5/8	3-1/8	29-1/2
FSW140	8-5/8	12-5/8	3-1/8	29-1/2
FSW142	8-7/8	12-5/8	3-1/8	29-1/2
FSW144	9	12-5/8	3-1/8	29-1/2



Metric Sizes

Part No.	Size	D	C	L
FSWM22	22	43	15	165
FSWM23	23	43	15	165
FSWM24	24	43	15	165
FSWM25	25	43	15	165
FSWM26	26	43	15	165
FSWM27	27	46	16	180
FSWM28	28	46	16	180
FSWM29	29	46	16	180
FSWM30	30	52	17	190
FSWM31	31	52	17	190
FSWM32	32	52	17	190
FSWM33	33	52	17	190
FSWM34	34	52	17	190
FSWM35	35	52	17	190
FSWM36	36	58	18	205
FSWM37	37	58	18	205
FSWM38	38	58	18	205
FSWM39	39	58	18	205
FSWM40	40	58	18	205
FSWM41	41	66	20	230
FSWM42	42	66	20	230
FSWM43	43	66	20	230
FSWM44	44	66	20	230
FSWM45	45	66	20	230
FSWM46	46	74	22	240
FSWM47	47	74	22	240
FSWM48	48	74	22	240
FSWM49	49	74	22	240
FSWM50	50	80	24	255
FSWM51	51	80	24	255
FSWM52	52	80	24	255
FSWM54	54	80	24	255
FSWM55	55	86	25	270
FSWM56	56	86	25	270
FSWM57	57	86	25	270
FSWM58	58	86	25	270
FSWM59	59	86	25	270
FSWM60	60	93	26	280
FSWM61	61	93	26	280
FSWM62	62	93	26	280
FSWM65	65	102	30	300
FSWM67	67	102	30	300
FSWM70	70	110	33	330
FSWM73	73	110	33	330
FSWM75	75	110	33	330
FSWM76	76	110	33	330
FSWM80	80	125	36	360
FSWM85	85	125	36	360
FSWM86	86	125	36	360
FSWM90	90	142	40	390
FSWM95	95	142	40	390
FSWM210	210	320	80	750
FSWM215	215	320	80	750
FSWM225	225	320	80	750
FSWM230	230	320	80	750
FSWM100	100	115	45	420
FSWM105	105	155	45	420
FSWM110	110	170	48	450
FSWM115	115	170	48	450
FSWM120	120	182	54	480
FSWM125	125	182	54	480
FSWM130	130	202	58	520
FSWM135	135	202	58	520
FSWM135	135	202	58	520
FSWM140	140	210	58	520
FSWM145	145	228	64	580
FSWM150	150	228	64	580
FSWM155	155	228	64	580
FSWM160	160	240	64	580
FSWM165	165	265	70	650
FSWM170	170	265	70	650
FSWM175	175	265	70	650
FSWM180	180	265	70	650
FSWM185	185	290	75	700
FSWM190	190	290	75	700
FSWM195	195	290	75	700
FSWM200	200	290	75	700

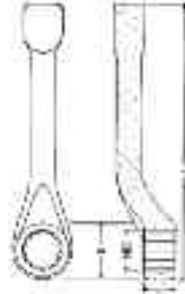


OZAT/Posi Lock

OFFSET STRIKING WRENCHES - 12 POINT OPENING -

Fractional Sizes

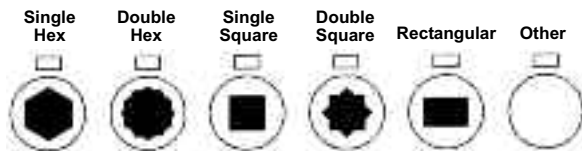
Part No.	Size	D	C	L
SW17	1-1/16	2-1/16	1	10-5/8
SW18	1-1/8	2-1/16	1	10-5/8
SW20	1-1/4	2-1/16	1	10-5/8
SW21	1-5/16	2-1/16	1	10-5/8
SW23	1-7/16	2-11/16	1-1/4	12-1/4
SW24	1-1/2	2-11/16	1-1/4	12-1/4
SW26	1-5/8	2-11/16	1-1/4	12-1/4
SW27	1-11/16	3-1/4	1-3/8	13-3/8
SW28	1-3/4	3-1/4	1-3/8	13-3/8
SW29	1-13/16	3-1/4	1-3/8	13-3/8
SW30	1-7/8	3-1/4	1-3/8	13-3/8
SW31	1-15/16	3-1/4	1-3/8	13-3/8
SW32	2	3-1/4	1-3/8	13-3/8
SW34	2-1/8	3-1/4	1-1/2	14-3/16
SW35	2-3/16	3-1/4	1-1/2	14-3/16
SW36	2-1/4	3-1/4	1-1/2	14-3/16
SW37	2-5/16	3-1/4	1-1/2	14-3/16
SW38	2-3/8	4-5/16	1-3/4	15
SW40	2-1/2	4-5/16	1-3/4	15
SW41	2-9/16	4-5/16	1-3/4	15
SW42	2-5/8	4-5/16	1-3/4	15
SW44	2-3/4	5	2	15-3/4
SW46	2-7/8	5	2	15-3/4
SW47	2-15/16	5	2	15-3/4
SW48	3	5	2	15-3/4
SW50	3-1/8	5	2	15-3/4



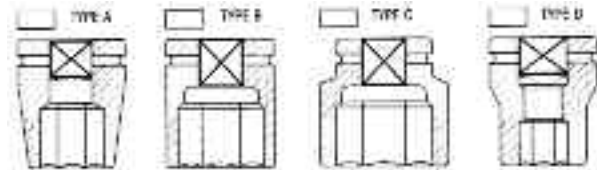
Sizes larger than shown in the charts, open end, short handled, six point, etc., are available on a special order basis.

REQUEST FOR PRICE QUOTE

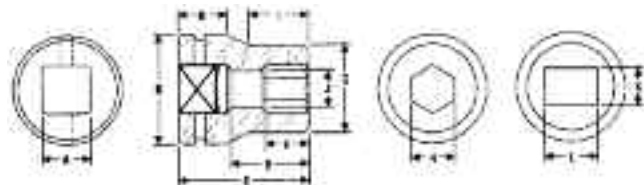
Specify ECM Opening Type (Check One)



Specify Socket Type (Check One)



Specify Critical Dimensions, in necessary. (Leave blank for default)



- A. Square Drive _____ E. Bolt Clear. Depth _____ I. Taper Length _____
 B. Drive Outside Diam. _____ F. Opening Depth _____ J. Bolt Clear Diam. _____
 C. Overall Length _____ G. Nut Side Diam. _____ K/L. Rec. Size _____
 D. Shoulder Length _____ H. Across Flats _____ Other Info: _____

Quantity: _____

Applications/Comments: _____

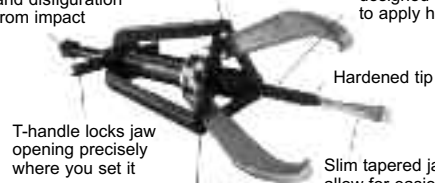
Posi Lock

Manual Pullers

- Saves time, money and labor
- One-man operation
- Locks like a vise
- Jaws made of 4140 steel
- 12 models to choose from
- Available in 2 or 3 jaw models
- 2-40 ton capacity
- Reach: 4" - 14"; Spread: 5" - 25"
- Long jaws available

Jaw Features:

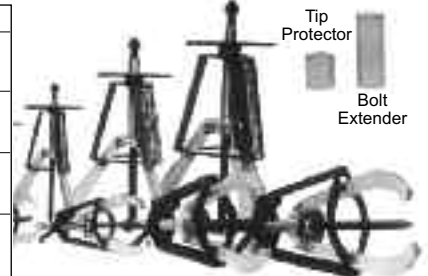
Nut recessed to avoid mushrooming and disfiguration from impact
 Cage® to guide jaws for fast set up, solid contact and superior safety
 Center bolt threads designed for less effort to apply high torque



Leverage up front for vise-like power and no slippage

Slim tapered jaws allow for easier gripping and better access to tight spots

Part #	Description
104	3 Jaw 4" 5 Ton
106	3 Jaw 6" 10 Ton
108	3 Jaw 8" 17 Ton
110	3 Jaw 10" 20 Ton
113	3 Jaw 12" 30 Ton
116	3 Jaw 14" 40 Ton
204	2 Jaw 4" 2 Ton
206	2 Jaw 6" 6 Ton
208	2 Jaw 8" 12 Ton
210	2 Jaw 10" 14 Ton
213	2 Jaw 12" 25 Ton
216	2 Jaw 14" 35 Ton



Internal Slide Hammer Set - PM16

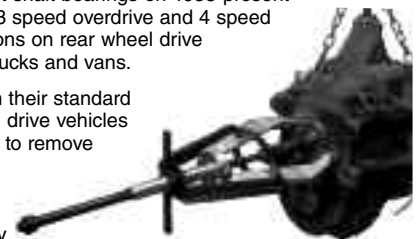
POSI LOCK's PM16 is ideal for the removal of many tough internal pulling jobs such as crankshaft pilot bearings, bearing cups, needle bearings, bushings, seal and grease retainers. Tool board and accessories are included. Create an external slide hammer puller by coupling POSI LOCK™'s model 104 or 204 with the slide rod 2.5 lb. hammer or 5 lb. hammer (10563).



Transmission Bearing Puller TJ-1

Transmission bearing removal takes minutes... not hours when you add POSI LOCK's transmission jaws (11054T) to the model 208 puller creating our TJ-1 puller. Jaws clamp in snap ring grooves as narrow as .070" to allow removal of front input shaft bearings on 1955-present 3 speed, 4 speed, 5 speed, 3 speed overdrive and 4 speed overdrive manual transmissions on rear wheel drive foreign and domestic cars, trucks and vans.

The 208 and 210 pullers with their standard jaws are used on front wheel drive vehicles (Chrysler, Ford, foreign, etc.) to remove front drive hubs (for CV joint replacement) and hanger bearings as well as numerous other applications on any vehicle. The cage® control design makes these pullers safe and easy to use.



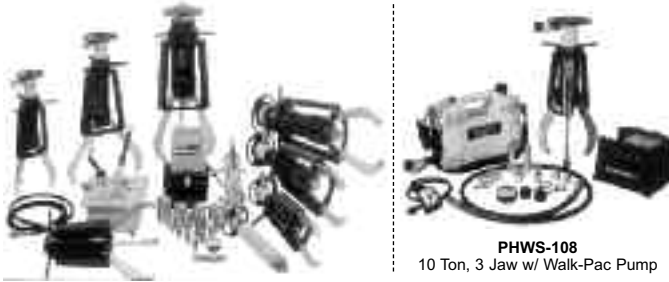
Hand Tools

Posi Lock/RIDGID

POSI LOCK's Hydraulic Sets

POSI LOCK's complete hydraulic sets include puller, cylinder, pump, pressure gauge, gauge adapter, lift plate, couplers, 10' hose, ram points and transport cart. The 10 and 15 ton hydraulic puller sets DO NOT include transport carts. Basic hydraulic sets that include only the puller, cylinder, lift plate and ram points are also available for all sizes.

Choose your hydraulic sets by jaws, reach and tonnage required and then pick your preference in pumps as follows:



PHWS-108
10 Ton, 3 Jaw w/ Walk-Pac Pump

Description	Set w/ Electric Pump Part #	Set w/ Air Pump Part #	Set w/ Manual Pump Part #	Set w/ Walk-Pac Pump Part #	Basic Set w/o Pump Part #
3 Jaw 8" 10 Ton	PHES-108	PHAS-108	PHMS-108	PHWS-108	PHB-108
3 Jaw 10" 15 Ton	PHES-110	PHAS-110	PHMS-110	-	PHB-110
3 Jaw 12" 25 Ton	PHES-113	PHAS-113	PHMS-113	-	PHB-113
3 Jaw 14" 50 Ton	PHES-116	PHAS-116	PHMS-116	-	PHB-116
2 Jaw 8" 10 Ton	PHES-208	PHAS-208	PHMS-208	PHWS-208	PHB-208
2 Jaw 10" 15 Ton	PHES-210	PHAS-210	PHMS-210	-	PHB-210
2 Jaw 12" 25 Ton	PHES-213	PHAS-213	PHMS-213	-	PHB-213
2 Jaw 14" 50 Ton	PHES-216	PHAS-216	PHMS-216	-	PHB-216

RIDGID

PIPE TOOLS

Wrenches - Heavy-Duty:

The Original Heavy-Duty Pipe Wrench with types and sizes to fit every application.

- Sturdy cast-iron housing and I-beam handle for comfortable grip and strength without excess weight.
- Full-floating forged hook jaw with spring suspension for instant grip, instant release.
- Replaceable jaws with tough, heat treated, high-alloy steel jaw teeth.
- Rugged, easy-spin, nonstick adjustment nut that automatically cleans grime from hook jaw shank.
- Uniquely braced, extra-strong mount for heel jaw.

Straight Pipe Wrench

Sturdy, cast-iron housing and I-beam handle with full floating forged hook jaw, nonstick adjustment nut and replaceable hook and heel jaws.



Cat. No.	Model No.	Desc.	Nom. Size (in)	Pipe Cap. (in)	Wt. (lbs)	Std. Pk.
31000	6	Straight Pipe Wrench	6	3/4	1/2	6
31005	8	Straight Pipe Wrench	8	1	3/4	6
31010	10	Straight Pipe Wrench	10	1-1/2	1-3/4	6
31015	12	Straight Pipe Wrench	12	2	2-3/4	6
31020	14	Straight Pipe Wrench	14	2	3-1/2	6
31025	18	Straight Pipe Wrench	18	2-1/2	5-3/4	6
31030	24	Straight Pipe Wrench	24	3	9-3/4	1
31035	36	Straight Pipe Wrench	36	5	19	1
31040	48	Straight Pipe Wrench	48	6	34-1/4	1
31045	60	Straight Pipe Wrench	60	8	51-1/4	1

End Pipe Wrench

Assures a fast and easy grip for pipe working in restricted spaces or close to a wall.



Cat. No.	Model No.	Desc.	Nom. Size (in)	Pipe Cap. (in)	Wt. (lbs)	Std. Pk.
31050	E-6	End Pipe Wrench	6	3/4	1/2	6
31055	E-8	End Pipe Wrench	8	1	3/4	6
31060	E-10	End Pipe Wrench	10	1-1/2	1-3/4	6
31065	E-12	End Pipe Wrench	12	2	2-3/4	6
31070	E-14	End Pipe Wrench	14	2	3-1/2	6
31075	E-18	End Pipe Wrench	18	2-1/2	5-3/4	6
31080	E-24	End Pipe Wrench	24	3	9-3/4	6
31085	E-36	End Pipe Wrench	36	5	19	1

Offset Pipe Wrench

Features a jaw opening parallel to the handle and a narrower hook jaw head which provides easy entry into tight spots.



Cat. No.	Model No.	Desc.	Nom. Size (in)	Pipe Cap. (in)	Wt. (lbs)	Std. Pk.
89435	14	Heavy-Duty Offset Pipe Wrench	14	2	2-1/4	6
89440	18	Heavy-Duty Offset Pipe Wrench	18	2-1/2	5-3/4	6
89445	24	Heavy-Duty Offset Pipe Wrench	24	3	9-3/4	6

Aluminum Handle Offset Pipe Wrench

Nearly 50% lighter than comparable cast-iron models of the same size. Features a jaw opening parallel to the handle and a narrower hook jaw head which provides easy entry into tight spots.



Cat. No.	Model No.	Desc.	Nom. Size (in)	Pipe Cap. (in)	Wt. (lbs)	Std. Pk.
31120	14	Aluminum Offset Pipe Wrench	14	2	2	6
31125	18	Aluminum Offset Pipe Wrench	18	2-1/2	3-1/2	6
31130	24	Aluminum Offset Pipe Wrench	24	3	6	6

Aluminum Handle Straight Pipe Wrench

Nearly 40% lighter than comparable cast-iron models of the same size. Jaws and all other parts identical to RIDGID Heavy-Duty Wrenches. Also available with special hook and heel jaws for plastic coated pipe.



Cat. No.	Model No.	Desc.	Nom. Size (in)	Pipe Cap. (in)	Wt. (lbs)	Std. Pk.
31090	810	Aluminum Straight Pipe Wrench	10	1-1/2	1	6
47057	812	Aluminum Straight Pipe Wrench	12	2	2-1/2	6
31095	814	Aluminum Straight Pipe Wrench	14	2	2-1/2	6
31100	818	Aluminum Straight Pipe Wrench	18	2-1/2	3-3/4	6
31105	824	Aluminum Straight Pipe Wrench	24	3	6	6
31110	836	Aluminum Straight Pipe Wrench	36	5	11	1
31115	848	Aluminum Straight Pipe Wrench	48	6	18-1/2	1

WRENCH PARTS

Wrench Size	Pipe Cap.	Handle Assy.			Nut	Pin	Heel Jaw & Pin Assy.	Coil & Flat Spring Assy.	Hook Jaw
		Straight Iron	End Iron	Straight Alum.					
Str.	End	Cat. No.	Cat. No.	Cat. No.	Cat. No.	Cat. No.	Cat. No.	Cat. No.	
6	E-6	31420	31470	-	31570	31575	31560	31565	31555
8	E-8	1	31425	31475	-	31595	31600	31585	31580
10	E-10	1-1/2	31430	31480	31510	31615	31625	31610	31605
12	E-12	2	31435	31485	49972	31645	31650	31635	31640
14	E-14	2	31440	31490	31515	31665	31650	31635	31660
18	E-18	2-1/2	31445	31495	31520	31685	31690	31675	31680
24	E-24	3	31450	31500	31525	31710	31715	31700	31705
36	E-36	5	31455	31505	31530	31735	31740	31725	31730
48	-	6	31460	-	31535	31760	31765	31750	31755
60	-	8	31465	-	-	31785	31790	31775*	31780
10 Rapwrench	-	1-1/2	32775	-	-	31615	31625	31610	31620

* Use with 60" Hook Jaw Cat. No. 31770

RIDGID

Chain Wrench

A double jaw gives fast, ratchet-like action in either direction. The heavy-duty model has replaceable alloy steel jaws. The light-duty model has a one-piece forged alloy steel handle and jaw. Ideal for use in close quarters.



Cat. No.	Model No.	Description	Rated Pipe Cap. (in)	Actual O.D. Cap. (in)	Chain Length (in)	Wt. (lbs)	Std. Pk.
31310	C-12	Light-Duty Chain Wrench	2	4	15-3/4	1-3/4	1
31315	C-14	Heavy-Duty Chain Wrench	2	5	18-1/2	2-3/4	1
31320	C-18	Heavy-Duty Chain Wrench	2-1/2	5	20-1/4	6	1
31325	C-24	Heavy-Duty Chain Wrench	3	5	20-1/4	8-1/4	1
31330	C-36	Heavy-Duty Chain Wrench	4-1/2	7-1/2	29	15-3/4	1

Strap Wrench

Strap Wrench Best for any polished pipe. Strong, woven nylon strap gives tight grip. Two models available for plastic pipe. Polyurethane-coated strap prevents scratching. Replaceable straps available.



Cat. No.	Model No.	Handle Length (in)	Strap Length (in)	Strap Width (in)	Pipe Cap. (in)	Tube Cap. (OD) (in)	Wt. (lbs)	Std. Pk.
31335	1	11-3/4	17	1/2	2	3-1/2	1-1/4	1
31340	2	11-3/4	17	1-1/8	2	3-1/2	1-3/4	1
31345	2	11-3/4	30	1-1/8	2	5-1/2	1-3/4	1
31350	2	11-3/4	24	1-1/8	2	5-1/2	1-3/4	1
31355	2P*	11-3/4	17	1-1/16	2	3-1/2	1-3/4	1
31360	5	18	29-1/4	1-3/4	5	7	2	1
31365	5	18	48	1-3/4	5	12	2	1
31370	5P*	18	29-1/4	1-3/4	5	5-1/2	2-1/8	1

*Strap designed for use with plastic pipe.

REPLACEMENT STRAPS

Cat. No.	Strap Length (in)	Strap Width (in)
31990	17	1/2
32015	17	1-1/8
32020	24	1-1/8
32025	30	1-1/8
32050	29-1/4	1-3/4

Cat. No.	Strap Length (in)	Strap Width (in)
32055	48	1-3/4
32035	17	1-1/16
32065	30	1-3/4
32050	29-1/4	1-3/4
32055	48	1-3/4
32035	17	1-1/16
32065	30	1-3/4

Hex Wrenches

Hex jaw design gives multi-sided, secure grip on all hex nuts, square nuts, unions and valve packing nuts. The extra-wide opening offset model is ideal for securing drain nuts on sinks and tubs.



Cat. No.	Model No.	Description	Length (in)	Cap. (in)	Wt. (lbs)
31305	E-110	Offset Hex Wrench	9-1/2	1-1/8 - 2-5/8	1-1/2
31275	17	Straight Hex Wrench	14-1/2	5/8 - 1-1/4	4-1/2
31280	25	Straight Hex Wrench	20	1 - 2	8-3/4

Spud Wrench

12" Spud Wrench features narrow jaws to fit into tight places. Smooth, toothless jaws ideal for square or rectangular stock.



Cat. No.	Model No.	Description	Length (in)	Cap. (in)	Wt. (lbs)
31400	-	Spud Wrench	12	3/8 - 2-5/8	2-1/2

Internal Wrench

Holds closet spuds and bath, basin and sink strainers through 2". Use to install or extract 1" through 2" nipples. Jaws expand by eccentric action and are reversible for various sizes.



Cat. No.	Model No.	Description	Length (in)	Cap. (in)	Wt. (lbs)
31405	342	Internal Wrench	4-1/2	1 - 2	1-5/8

Basin Wrenches

Spring-loaded jaws of forged alloy steel provide fast, one-hand ratcheting. Tension plug holds head in any position up to 90° angle. Telescopic shanks on Nos. 1017 and 1019 quickly adjust for lengths from 10" to 17".



Cat. No.	Model No.	Description	Length (in)	Cap. (in)	Wt. (lbs)
31170	1010	Basin Wrench	10	3/8 - 1-1/4	1-3/4
31175	1017	Telescoping Basin Wrench	10-17	3/8 - 1-1/4	2
31180	1019	Telescoping Basin Wrench	10-17	1-1/4 - 2-1/2	2

Heavy-Duty Pipe Cutters

Fast, clean pipe cutting by hand or power. Extra long shank protects adjustment threads, while an extra-large handle is provided for quick, easy adjustment. Can be converted to 3-wheel cutter by replacing rollers with cutter wheel, or the 2A and 4S can be ordered as 3-wheel model for use in areas where a complete turn is not possible.



Nos. 1-A & 2-A

Cat. No.	Model No.	Pipe Cutter Description	Pipe Cap. Nom. Size (in)	Wt. (lbs)
32810	1-A	Heavy-Duty	1/8 - 1-1/4	6-1/2
32820	2-A	Heavy-Duty	1/8 - 2	7
32825	2-A	2-A 3-Wheel Heavy-Duty	1/8 - 2	7
32830	3-S	Heavy-Duty	1 - 3	15
32840	4-S	Heavy-Duty	2 - 4	18
32845	4-S	4-S 3-Wheel Heavy-Duty	2 - 4	18
32850	6-S	Heavy-Duty	4 - 6	22

4-Wheel Pipe Cutters

Designed for work in areas where a complete turn is impossible. No. 42-A has a short handle for use in areas where only a 130° turn can be made. Second handle on No. 44-S makes two man leverage possible on large pipe sizes. Both equipped with four heavy-duty wheels.



No. 44-S

No. 42-A

Cat. No.	Model No.	Pipe Cutter Description	Pipe Cap. Nom. Size (in)	Wt. (lbs)
32870	42-A	Heavy-Duty 4-Wheel	3/4 - 2	6-3/4
32880	44-S	Heavy-Duty 4-Wheel	2-1/2 - 4	20

Wide-Roll Pipe Cutter

Featuring extra-wide rolls, this cutter is especially designed for use with power drives. The wide rolls provide for true tracking and cleaner cuts.



No. 202

Cat. No.	Model No.	Pipe Cutter Description	Pipe Cap. Nom. Size (in)	Wt. (lbs)
32895	202	Heavy-Duty Wide Roll	1/8 - 2	8

RIDGID

No. 228 Soil Pipe Assembly Tool

Handles all 1-1/2" through 8" gasketed soil pipe without extra, loose attachments. Easy assembly of Y, tee and elbow fittings, as well as straight lengths any angle.

Slim, compact design lets one man assemble even large sizes quickly and easily. Removal of handle facilitates vertical and overhead pipe assembly.



Cat. No.	Model No.	Description	Cap. (in)	Wt. (lbs)	Std. Pk.	Replmt. Chain Cat #
32905	228	Soil Pipe Assembly Tool	1-1/2 - 8	22-3/4	1	-

Note: Chain Extension Assy. available (Cat No. 33665) Wt. - 9 lbs.

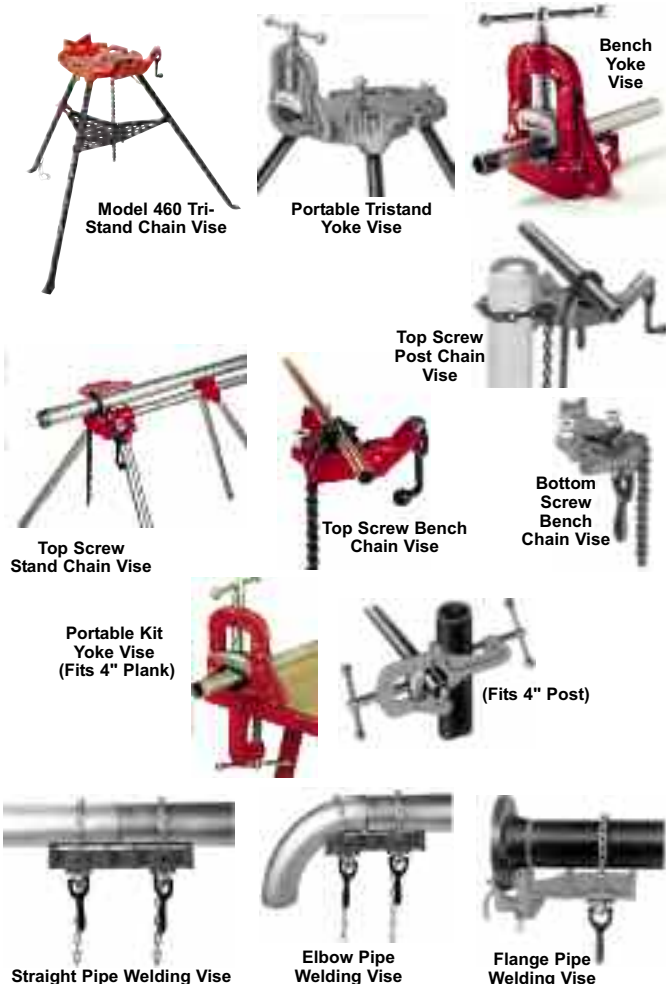
No. 902 Torque Wrench

Preset to eliminate guesswork in No Hub® soil pipe installations. Assures proper coupling tightness for strong, leak-free joints. The 5/16" drive tightens with a fast ratchet action until the wrench clicks for accurate 60 inch-pounds torque every time.



Cat. No.	Model No.	Description	Torque (in.lb)	Wt. (lbs)	Std. Pk.
31410	902	Torque Wrench for No Hub® Cast-Iron Soil Pipe Couplings	60	1/2	1
14988	904	Torque Wrench for No-Hub Cast-Iron Soil Pipe Couplings	60	1/2	1

Pipe Vises:



- continues -

Pipe Vises (continued)

Portable Tristand Vises - Integral legs and tray fold in for easy carrying and setup. Large vise base overhangs front legs for clear tool swing. Complete with slots for hanging tools, pipe rest, three pipe benders and ceiling brace screw.

Model 460 - 40% larger work surface, increased pipe capacity - 6" wider, rear support and receding ceiling brace screw.

Bench Yoke Vises - Yoke and base made of strong, dependable iron. Hardened alloy steel jaws and convenient pipe rest and bender.

Bench Chain Vises - Crank handle is anchored to base. Rugged cast-iron base has jaws of hardened alloy steel, handy pipe rest, and bender. Capacities of 1/8" through 8". Two models available for plastic pipe. Toothless jaws are neoprene coated to prevent scoring of pipe.

Stand Chain Vise - Handy, portable stand chain vise. Sturdy cast-iron frame, alloy steel jaws. Equipped with pipe rest, pipe bender and tool tray. Legs and connecting pipe not furnished.

Portable Chain and Yoke Vises - Light, strong, portable post chain vise fits any shape or kind of post. Equipped with tray for oil can, plus a handy pipe bender. The portable yoke vise easily attaches to plank, workbench or post.

Pipe Welding Vises - Made of durable performance-proven material and designed to resist strain, heat, and warpage during tacking. Machined swivel nuts and pins, together with special chain screws, give smooth and trouble-free assembling of the vise onto pipe.

Cat. No.	Model No.	Description	Pipe Cap. (in)	Wt. (lbs)	Std. Pk.
40130	40-A	Portable Tristand Yoke Vise	1/8 - 2-1/2	48-1/2	1
16703	425	Portable Tristand Chain Vise	1/8 - 2-1/2	32	1
36273	460-6	Portable Tristand Chain Vise**	1/8 - 6	47	1
36278	460-12	Portable Tristand Chain Vise	1/8 - 12	71	1
40165	560	Top Screw Stand Chain Vise	1/8 - 5	25-3/4	1
40185	BC210	Top Screw Bench Chain Vise	1/8 - 2-1/2	7-3/4	1
40195	BC410	Top Screw Bench Chain Vise	1/8 - 4	14-3/4	1
40190	BC210P	Top Screw Bench Chain Vise	1/2 - 2-7/8 O.D.*	7-3/4	1
40200	BC410P	Top Screw Bench Chain Vise	1/2 - 4-1/2 O.D.*	15	1
40205	BC510	Top Screw Bench Chain Vise	1/8 - 5	14-3/4	1
40210	BC610	Top Screw Bench Chain Vise	1/4 - 6	24-1/2	1
40215	BC810	Top Screw Bench Chain Vise	1/2 - 8	37-1/4	1
40175	BC2A	Bottom Screw Bench Chain Vise	1/8 - 2	6	1
40180	BC4A	Bottom Screw Bench Chain Vise	1/8 - 4	13-1/4	1
40075	20	Bench Yoke Vise	1/8 - 1-1/4	4	1
40080	21	Bench Yoke Vise	1/8 - 2	8-3/4	1
40085	22	Bench Yoke Vise	1/8 - 2-1/2	13	1
40090	23	Bench Yoke Vise	1/8 - 3	19-3/4	1
40100	25	Bench Yoke Vise	1/8 - 4	27-3/4	1
40110	27	Bench Yoke Vise	1/8 - 6	65	1
40170	640	Top Screw Post Chain Vise	1/8 - 5	23-1/2	1
40120	38	Portable Kit Yoke Vise	1/8 - 2	12	1
40125	39	Portable Kit Yoke Vise	1/8 - 2-1/2	15-1/2	1
40220	461	Straight Pipe Welding Vise	1/2 - 8	15-1/2	1
40225	462	Angle Pipe Welding Vise	1/2 - 12	18-3/8	1
40230	463	Elbow Pipe Welding Vise	2-1/2 - 8	14	1
40235	464	Flange Pipe Welding Vise	2-1/2 - 8	17-1/4	1

* For Plastic Pipe and Tube

** Jaw for Plastic Pipe, Catalog No. 41280 available; order separately.

† Export Models require assembly.

Pipe Reamers

No. 2-S Spiral Ratchet Reamer - Self-feeding spiral design for extra-fast and easy hand reaming. Please note 2S Reamer is not suitable for use with power drives.

Nos. 2 and 3 Ratchet Reamers - Long taper design will not dig in. Suitable for use with power drives.

No. 254 Spiral Ratchet Reamer - Hollow center reduces weight. Large pressure plate. Hardened alloy steel cone removable for sharpening.



Cat. No.	Model No.	Description	Cap. (in)	Wt. (lbs)	Std. Pk.	Replmt. Cone Cat #
34955	2-S	Spiral Reamer with Handle	1/4 - 2	7-1/4	1	35020
34945	2	Straight Reamer with Handle	1/8 - 2	7	1	34975
34950	3	Straight Reamer with Handle	3/8 - 3	11-1/2	1	35090
34960	254	Spiral Reamer with Handle	2-1/2 - 4	14	1	35135

Hand Tools

RIDGID

Pipe Extractors

RIDGID pipe extractors make easy work of removing broken threaded ends of pipe, pipe plugs, fittings, etc. Each is plainly marked showing drill size used when solid ends of plugs and fittings must be drilled to receive extractor.



Individual Pipe Extractors								
Cat. No.	Model No.	Cat. No.*	Part No.*	Pipe Size (in)	Length Overall (in)	Use Drill (in)	Wt. (oz)	Std. Pack
35595	80	-	-	1/8	2-1/4	1/4	3/4	6
35600	81	-	-	1/4	2-1/2	3/8	1-1/2	6
35605	82	-	-	3/8	2-3/4	1/2	2-1/2	6
35610	83	35640	83E	1/2	3	5/8	4	6
35615	84	35645	84E	3/4	3-1/4	1-3/16	7-1/2	6
35620	85	35650	85E	1	3-1/2	1-1/16	12-1/2	6
35625	86	35655	86E	1-1/4	3-3/4	1-3/8	20	6
35630	87	35660	87E	1-1/2	4	1-9/16	26	6
35635	89	35665	89E	2	4-1/2	2-1/16	50	6

*Pipe Extractors for extra-strong wall pipe

Pipe Extractor Sets						
Cat. No.	Model No.	Cap./Pipe Size (in)	Set includes	Wt. (oz)	Std. Pack	
35670	880	1/8 - 1/2	Nos. 80 to 83 Inclusive	8	1	
35675	881	1/4 - 3/4	Nos. 81 to 84 Inclusive	16	1	
35680	882	1/4 - 1	Nos. 81 to 85 Inclusive	28	1	
35685	883	1/8 - 1	Nos. 80 to 85 Inclusive	28	1	

Pipe Taps: Hand use only

Made from carbon steel in right hand configuration only. These taps are especially suited for restricted area work. All taps have taper of 3/4" per foot.



Cat. No.	Model No.	Description	Drill Size (in)	Nom. Pipe Size (in)	Threads Per Inch	Wt. (lbs)	Std. Pack
35815	E-5112	Pipe Tap-NPT	21/64	1/8	27	1/16	1
35820	E-5113	Pipe Tap-NPT	7/16	1/4	18	1/8	1
35825	E-5114	Pipe Tap-NPT	9/16	3/8	18	1/4	1
35830	E-5115	Pipe Tap-NPT	45/64	1/2	14	1/4	1
35835	E-5116	Pipe Tap-NPT	29/32	3/4	14	1/2	1
35840	E-5117	Pipe Tap-NPT	1-9/64	1	11-1/2	1	1
35845	E-5118	Pipe Tap-NPT	1-31/64	1-1/4	11-1/2	1-1/4	1
35850	E-5119	Pipe Tap-NPT	1-47/64	1-1/2	11-1/2	2	1
35855	E-5120	Pipe Tap-NPT	2-15/64	2	11-1/2	3-1/4	1

PIPE TOOLS:

Tools for P.V.C. (Plastic) Coated Conduit

Aluminum Straight Pipe Wrench for Plastic Pipe and Conduit

40% lighter than comparable cast iron models, this wrench is ideally suited to working with plastic coated pipe/conduit. The hook and heel jaws are wider in construction than standard pipe wrench jaws and feature special gripping surfaces to enable a firm hold to be maintained on the workpiece with a minimum of marring.



Extra Wide Jaws

Cat. No.	Model No.	Description	Size (in)	Pipe Cap. (in)	Wt. (lbs)	Std. Pack
41352	810CP	Aluminum Straight Pipe Wrench	10	1-1/2	1	5
41357	814CP	Aluminum Straight Pipe Wrench	14	2	2-1/2	5
41362	818CP	Aluminum Straight Pipe Wrench	18	2-1/2	3-3/4	5

Strap Wrench

The strong woven polyurethane coated nylon strap gives a tight grip to any plastic or plastic coated pipe/conduit without causing any scratching of the workpiece. Replaceable straps are available.



Cat. No.	Model No.	Handle Length (in)	Strap Length (in)	Strap Width (in)	Pipe Cap. (in)	Tube Cap. (in)	Wt. (lbs)	Std. Pack
31355	2P	11-3/4	17	1-1/16	2	3-1/2	1-3/4	1
31370	5P	18	29-1/4	1-3/4	5	5-1/2	2-1/8	1

Wide Roll Pipe Cutter

This wide roll pipe cutter is especially suitable for working with plastic coated pipe/conduit. The wide rolls allow for a broad bearing surface and also provides for true tracking and cleaner cuts.



Cat. No.	Model No.	Pipe Cutter Desc.	Pipe Cap. Nom. Size (in)	Wt. (lbs)
32895	202	Heavy-Duty Wide Roll	1/8 - 2	8

Bench Chain Vise

The heavy duty cast iron base has jaws especially designed for gripping plastic coated pipe/conduit. These toothless jaws are neoprene coated to prevent scoring of the pipe surface. The operating handle is firmly anchored to the base of the vise which also features a pipe rest and bender.



Cat. No.	Model No.	Description	Pipe Cap. (in)	Wt. (lbs)	Std. Pack
40190	BC210P	Top Screw Bench Chain Vise	1/2 - 2-7/8 O.D.*	7-3/4	1
40200	BC410P	Top Screw Bench Chain Vise	1/2 - 4-1/2 O.D.*	15	1

Cat. No.	Description	Cap. (in)	Wt. (lbs)
40222	Jaw for 450 or BC410	1/8 - 4	1.00

Die Heads Complete for Plastic Coated Pipe and Conduit

This range of die heads is especially suited to working with plastic coated pipe/conduit. The various dies lock easily into the die head and are simply and quickly removed by pulling out the ratchet knob.



Model 12-R

Model 12R NPT	Nominal Pipe Size (in)						
	1/2	3/4	1	1-1/4	1-1/2	2	1/2 - 2 Set*
High Speed RH	51857	51862	51867	51872	51877	51882	55207

*Set includes ratchet and handle.

PIPE TOOLS:

Tools for Plastic Pipe

Deburring Tools/Inner-Outer Reamer

Deburring Tool for plastic pipe and tubing. Made of high-grade steel with specially-designed, long-lasting cutting edges. Slip-resistant vinyl hand grip. Ideal for removing outside ridges and inside burrs on plastic pipe and tubing.



No. 127 Inner-Outer Reamer for quick, clean and easy I.D. reaming and O.D. beveling of 1/4" through 1-1/4" pipe. Long-wearing alloy steel blades give fast, professional reaming on PVC, ABS, CPVC and other types of PB and PE Plastics.

Cat. No.	Model No.	Description	Plastic Pipe Cap. (in)	Plastic Tubing Cap., I.D. (in)	Std. Pk.
35155	72	Deburring Tool	1/2 - 1-1/2	3/4 - 2-1/8	6
64962	73	Deburring Tool	1-1/2 - 3	-	6
64967	74	Deburring Tool	4	-	6
34965	127	Inner-Outer Reamer	1/4 - 1-1/2	-	1

RIDGID

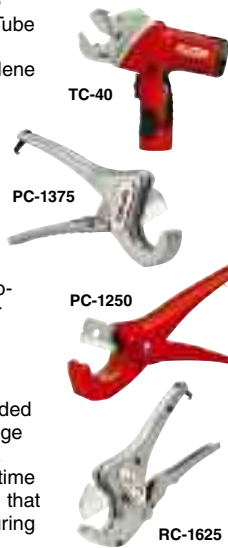
Quick-Acting Tubing Cutters

The RIDGID® TC-40 Powered Plastic Pipe and Tube Cutter is a battery powered, fully automatic tool intended for cutting polyethylene (PE), polypropylene (PP), PEX, rubber hose, PVC and CPVC with a capacity up to 1-5/8" outer diameter.

Model PC-1375 Single Stroke Plastic Pipe and Tubing Cutter uses a X-CEL® blade to ensure optimum mechanical advantage throughout the cut stroke. The X-CEL blade allows fast, single stroke cutting of PVC, CPVC, PEX, PE, PB and rubber hose up to 1.375" outside diameter.

Model PC-1250 Scissor-Style Cutter is an easy-to-use tool that can cut all types of plastic or rubber tube and pipe up to 15/8" outside diameter.

Model RC-1625's advanced blade design combined with the ratcheting mechanism, work together to reduce the amount of hand force needed to cut through hard plastic material. A quick-change blade pin enables the user to change blades in a matter of seconds without tools, saving valuable time and increasing productivity. This pin also assures that there will be no lost clips or misplaced screws during a blade change.



Ratchet & Handle Only

Ratchet knob indicates forward and reverse. Die heads snap in from both sides and lock in place.



Ratchet & Handle Only					
	Model No.				
Ratchet and Handle Only	00-R	11-R	111-R	12-R	00-RB
Catalog No.	38540	37777	38550	30118	38540

Three-Way Threaders

Each model cuts three pipe thread sizes. Uses same 12-R dies as ratchet threaders.



Model No.	Cap. (in)	RH Alloy	RH High Speed	Speed for S.S.	RH High Wt. (lbs)
31-A NPT	1/2, 3/4, 1	36540	36550	36555	10
31-A BSPT	1/2, 3/4, 1	65320	-	-	10
31-A NPSM	1/2, 3/4, 1	36560	-	-	10

Manual Bolt Threaders:

Exposed Ratchet Bolt Threader Sets

No. 00-RB Capacity 1/4" - 1"

- All matched threader sets include button die heads, ratchet assembly (00-R) and ratchet handle. Button dies can be reversed to thread close to bolt shoulder or head.



Cat. No.	Model No.	Description	No. Die Heads Complete	Thread Type	Cap. Range (in)	Wt. (lbs)
36680	00-RB	Ratchet Bolt Threader	10	UNC	1/4 - 1	20
36690	00-RB	Ratchet Bolt Threader	10	UNF	1/4 - 1	20

Metal Carrying Case

Steel cases with rust-resistant finish available to keep die sets together.



Cases contain no die heads

Cat. No.	Description	Thread Type	L x W x H	Weight (lb)
38605	Metal Case	00-R	19-5/8 X 4-9/16 X 3-3/16	7-1/2
38610	Metal Case	00-RB	19-1/8 X 7-1/4 X 3-3/16	7-1/2
38615	Metal Case	111-R	25-5/8 X 4-21/32 X 6-7/32	7-3/4
38620	Metal Case	11-R	24-1/8 X 4-21/32 X 9-11/16	7-3/4
38625	Metal Case (holds 6 die heads)	12-R	25-7/8 X 5 X 6-1/2	13
97375	Metal Case (holds 9 die heads)	12-R	24-3/8 X 5 X 10	15
21218	Plastic Case	12-R	25 X 5 X 14	6

Cat. No.	Model No.	Description	Capacity (O.D.) (in)	Weight (lb)	Std. Pack
Powered Plastic Cutter					
36533	TC-40	Powered Plastic Cutter Kit	1-5/8	5.7	1
36558	TC-40	Charger	-	.2	1
36673	TC-40	Replacement Blade	-	.2	1
36563	TC-40	12V Li-Ion Battery	-	.4	1
Plastic Pipe Cutter					
23493	PC-1375	Single Stroke Plastic Pipe and Tubing Cutter	1/8 - 1-3/8	.70	6
25588	PCB-1375	PC-1375 Replacement Blade	-	.10	1
Scissor Style Cutter					
23488	PC-1250	Scissor-Style Plastic Pipe & Tubing Cutter	1/8 - 1-5/8	.45	6
26803	PCB-1250	PC-1250 Replacement Blade	-	.10	1
Ratchet Cutter with Ergonomic Grips					
23498	RC-1625	Ratchet Action Plastic Pipe & Tubing Cutter	1/2 - 1-5/8	1.15	6
27858	RCB-1625	RC-1625 Replacement Blade	-	.10	1
30088	RC-2375	Ratchet Action Plastic Pipe & Tubing Cutter	1/2 - 2-3/8	1-7/8	6
30093	RCB-2375	RC-2375 Replacement Blade	-	1/2	1
Cutter Replacement Blades					
92170	138	Replacement Blade	-	1/8	1
22086	1493	Replacement Blade	-	1/8	1

see page 19-137 for Cutting Wheels

MANUAL THREADING EQUIPMENT

Manual Pipe Threaders:

Exposed Ratchet Threader Sets

No. 00-R Capacity 1/8" - 1"
No. 12-R Capacity 1/8" - 2"



Enclosed Ratchet Threader Sets

No. 11-R Capacity 1/8" - 1-1/4"



Model No.	Cap. (In.)	Catalog No.				Wt. (lbs)
		NPT	BSPT	NPSM	BSPP	
Exposed Ratchet Threader Sets						
00-R	1/2 - 1	36345	65175	36380	-	10
00-R	3/8 - 1	36355	-	-	-	11-1/4
00-R	1/8 - 1	36375	-	-	-	13-3/4
12-R	1/2 - 1-1/4	36480	-	-	-	23-3/4
12-R	1/2 - 2	36475	65255	36510	-	34-3/4
12-R	1/8 - 2	36505	65285	-	-	45-1/2
Enclosed Ratchet Threader Sets						
11-R	1/8 - 1-1/4	36390	65135	36425	-	16

All matched Threader/Sets include die Heads, Ratchet Handle and Alloy Dies. All Threader Sets use same 12-R Dies in Die Head.

Hand Tools

RIDGID

Pipe/Bolt Die Heads Complete
North American Standards

		Catalog No.									
		Nominal Pipe Size (in)									
Model No. OO-R		1/8"	1/4"	3/8"	1/2"	3/4"	1"	1-1/4"	1-1/2"	2"	
(NPT)											
Alloy	RH	36875	36880	36885	36890	36895	36900	-	-	-	
High-Speed	RH	36935	36940	36945	36950	36955	36960	-	-	-	
High-Speed for Stainless Steel	RH	36965	36970	36975	36980	36985	36990	-	-	-	
(NPSM)											
Alloy	RH	36995	37000	37005	37010	37015	37020	-	-	-	
Model No. 12-R											
(NPT)											
Alloy	RH	37375	37380	37385	37390	37395	37400	37405	37410	37415	
Alloy	LH	-	-	-	37435	37440	37445	37450	37455	37460	
High-Speed	RH	37465	37470	37475	37480	37485	37490	37495	37500	37505	
High-Speed for Stainless Steel	RH	37510	37515	37520	37525	37530	37535	37540	37545	37550	
High-Speed for PVC	RH	-	83450	83455	83460	83465	83470	83475	83480	83485	
High-Speed for Plastic Coated Pipe	RH	-	-	-	51857	51862	51867	51872	51877	51882	
Alloy for IMC	RH	-	-	-	92690	92695	92700	92705	92710	92715	
(NPSM)											
Alloy	RH	37555	37560	37565	37570	37575	37580	37585	37590	37595	
Model No. 11-R											
(NPT)											
Alloy	RH	37025	37030	37035	37040	37045	37050	37055	20923	20943	
High-Speed	RH	37095	37100	37105	37110	37115	37120	37125	20928	20948	
High-Speed for Stainless Steel	RH	37130	37135	37140	37145	37150	37155	37160	20933	20953	
(NPSM)											
Alloy	RH	37165	37170	37175	37180	37185	37190	37195	20938	20958	
Model No. OO-RB											
		1/4"	5/16"	3/8"	7/16"	1/2"	9/16"	5/8"	3/4"	7/8"	1"
		20 TPI	18 TPI	16 TPI	14 TPI	13 TPI	12 TPI	11 TPI	10 TPI	9 TPI	8 TPI
(UNC)											
Alloy	RH	37610	37615	37620	37625	37630	37635	37640	37645	37650	37655
Alloy	LH	-	-	-	37675	-	-	-	37695	-	-
(UNF)											
Alloy	RH	37710	37715	37720	37725	37730	37735	37740	37745	-	37755
Alloy	LH	-	-	-	37775	37780	37785	37790	37795	37800	37805



Unless Highlighted, all die heads come complete with selected dies and are set at the factory. Highlighted die heads require assembly with supplied dies. All matched Threader/Sets include Die Heads, Ratchet Assembly, Ratchet Handle and specified Dies.

Dies for Manual Pipe/Bolt Die Heads

Pipe Dies for OO-R, 111-R, 12-R, O-R, 11-R Ratchet Threaders or 30A, 31A 3-Way Pipe Threaders

		Catalog No.									
		Nominal Pipe Size - Threads Per Inch									
Die Material or Type		1/8"-27	1/4"-18	3/8"-18	1/2"-14	3/4"-14	1"-11-1/2	1-1/4"-11-1/2	1-1/2"-11-1/2	2"-11-1/2	
(NPT) National Pipe Taper											
Alloy	RH	37810	37815	37820	37825	37830	37835	37840	37845	37850	
High-Speed	RH	37855	37860	37865	37870	37875	37880	37885	37890	37895	
High-Speed	LH	38045	38050	38055	38060	38065	38070	38075	38080	38085	
H.S. for Stainless Steel	RH	37900	37905	37910	37915	37920	37925	37930	37935	37940	
H.S. for PVC	RH	-	70680	70685	70690	70695	70700	70705	70710	70715	
*HS Reversible	RH	-	-	-	49707	49712	49717	49722	49727	49732	
(NPSM) National Pipe Straight Mechanical											
Alloy	RH	37945	37950	37955	37960	37965	37970	37975	37980	37985	
(API) American Petroleum Institute***											
High Speed RH				70720	70725	70730					
(BSPT) British Standard Pipe Taper**											
Alloy	RH	66110	66115	66120	66125	66130	66135	66140	66145	66150	
High-Speed	RH	66310	66315	66320	66325	66330	66335	66340	66345	66350	
High-Speed	LH	66405	66410	66415	66420	66425	66430	66435	66440	66445	
High Speed Reversible	RH	-	-	56337	56342	56347	56352	56357	56362	56367	
(BSPP) British Standard Pipe Parallel**											
Alloy	RH	66190	66195	66200	66205	66210	66215	66220	66225	66230	
Alloy	LH	-	66280	66285	66290	66295	66300	66305	-	-	
H.S. for Stainless Steel	RH	-	-	-	66400	-	-	-	-	-	

*Dies can be reversed in die head for close to wall threading.
** Requires British Die Head
*** Requires API Die Head
(1) Requires 11R ISO Die Head
(2) Requires 11R BEC Die Head

		Catalog No.				
		Nominal Conduit Size in mm - Thread Pitch in mm				
Die Material or Type		20-1.5	25-1.5	32-1.5	40-1.5	
(ISO) International Standards Organization (1)						
Alloy	RH	85830	76305	85835	76315	
		Nominal Conduit Size - Threads Per Inch				
(BEC) British Electrical Conduit (2)						
Alloy	RH	66155	66160	66165	66170	66175

Bolt Threaders Button Dies For OO-RB Ratchet Bolt Threaders or 31B, 33B, 35B, 37B 3-Way Bolt Threaders

		Catalog No.									
		Rod Diameter - Threads Per Inch									
Die Material or Type		1/4"-20	5/16"-18	3/8"-16	7/16"-14	1/2"-13	9/16"-12	5/8"-11	3/4"-10	7/8"-9	1"-8
(UNC) Unified National Course											
Alloy	RH	38335	38340	38345	38350	38355	38360	38365	38370	38375	38380
(UNF) Unified National Fine											
Alloy	RH	38385	38390	38395	38400	38405	38410	38415	38420	38425	15317
Alloy	LH	38485	38490	38495	38500	38505	38510	38515	38520	38525	15977

RIDGID

POWER THREADING EQUIPMENT:

Model 700 Power Drive

- Heavy-duty hand-held power drive
- Features reversible 115V or 230V Universal motor
- Capacity 1/8" - 2" pipe. Designed for RIDGID No. 12R die heads. Other RIDGID die heads (OOR, OORB, 11R) using adapters, threading 2-1/2" through 6" with 141/161 geared threaders
- CSA approved
- Approved to UL standards (NRTLCL)



Technical Specifications:

- **Motor:** Universal, 1/2 HP, 115V or 230V 50/60 Hz
- **Switch:** Double-throw reversible
- **Gear Head:** All-spur gear reduction. Spring loaded adapter pawl. Hardened steel spindle gear
- **Body:** Cast aluminum
- **Spindle Speed:** 26-32 RPM (no load)
- **Capacity:** 1/8" - 2" Pipe. 1/4" - 1" Bolt (using OO-RB)
- **Weight:** 25 lbs. Power Drive only
- **Length:** 28-1/4"

Note: No. 12-R Die Heads Complete uses No. 12R Dies. Use the No. 775 Support Arm to resist the torque developed when threading larger pipe.

Cat. No.	Model No.	Description	Pipe Threading Cap. (in)	Rod Threading Cap. (in)	Max. Geared Threader Cap. (in)	Wt. (lbs)
41935	700	115V 50/60Hz	1/8 - 2	1/4 - 1	6	25
41940	700	230V 50/60Hz	1/8 - 2	1/4 - 1	6	25

Cat. No.	Model No.	Accessories Description	Wt. (lbs)
42600	770	Adapter for OO-R and OO-RB	3-3/8
42605	771	Adapter for O-R	3-3/8
42610	772	Adapter for 11-R	3-1/2
42615	773	Adapter for 111-R	3
42620	774	Square Drive Adapter - 15/16	5-1/4
42625	775	Support Arm for No. 700	11
42950	B-171-X	Metal Carrying Case	29
10883	418	Oiler w/1 Gal. Nu-Clear Thread Cutting Oil	20-1/2
41620	-	Gearhead Motor Grease	1

Model 300 Power Drive Only:

- RIDGID speed chuck
- Reversible 1/2 HP Universal motor
- Capacity: 1/8" - 2" pipe, 2-1/4" - 4", 4" - 6" with 141 and 161 Geared Threaders; 1/4" - 2" rod
- Recessed On/Off/Reverse switch
- CSA Approved.
- Approved to UL standards (NRTLCL).



Model 300 Power Drive Complete Consists of:

- 300 Power Drive only with foot switch
- 1206 Stand
- 311 Carriage with lever
- 341 Reamer
- 360 Cutter
- 811 A Universal die head
- Set 1/2" - 3/4" Universal alloy dies
- Set 1" - 2" Universal alloy dies
- 32 Transporter
- 418 Oiler
- 1 gallon Nu-Clear thread cutting oil

- continues -

Model 300 Power Drive Only: (continued)

Technical Specifications:

- **Motor:** 1/2 HP, Universal reversible motor, single-phase, 50/60 Hz, 115V (230V available)
- **Switch:** Heavy-duty FOR/OFF/REV and Integral Foot Switch
- **Chuck:** RIDGID speed chuck with replaceable rocker-action jaws
- **Spindle Speed:** 38 RPM (57 RPM available)
- **Rear Centering Device:** Cam-action turns with chuck
- **Support Bar:** Heavy-duty (2)

Cat. No.	Model No.	Description	Spindle Speed RPM	Pipe Threading Cap. (in)	Rod Threading Cap. (in)	Geared Threader Cap. (in)	Wt. (lbs)
15682	300 Complete	115V, 50/60 Hz (NPT)	38	1/8 - 2	1/4 - 2	6	212
15722	300 Complete	115V, 50/60 Hz (NPT)	57	1/8 - 2	1/4 - 1-1/2	6	212
41855	300 Only	115V, 50/60 Hz	38	1/8 - 2	1/4 - 2	6	94
75075	300 Only	115V, 50/60 Hz	57	1/8 - 1-1/4	1/4 - 1-1/2	6	94
41860	300 Only	230V, 50/60 Hz	38	1/8 - 2	1/4 - 1-1/2	6	94
75435	300 Only	230V, 50/60 Hz Export	38	1/8 - 2	1/4 - 2	6	94
97415	300A Complete	230V, (NPT) Export	38	1/8 - 2	1/4 - 2	6	202
97420	300A Complete	230V, (BSPT) Export	38	1/8 - 2	1/4 - 2	6	202

Other voltages available upon request.

Export machines equipped with special power cord sets.

300A Complete consists of 300PD, 1206 Stand, 311A Carriage, 341 Reamer, 360 Cutter, 330 Oil Pan, 811A Die Head with 1/2" - 3/4" and 1" - 2" Universal Dies.

Model 300 Power Drive Complete

Convert your 300 Power Drive into a low-cost threading machine.

Add these low-cost accessories and have the speed and convenience of a threading machine.

- A. Die heads and dies for use with 300 Power Drive with 311 carriage.
- B. No. 360 Cutter: Capacity: 1/8" - 2" pipe, 1/4" - 7/8" rod with F-3 wheel, 5/16" - 1" with E-1032 cutter wheel.
- C. No. 341 Reamer: Positive-locking 5-flute cone, right-hand 1/8" - 2". Special E863 RH/LH combination reamer cone available.
- D. No. 311 Carriage with lever.
- E. No. 1206 Stand.



No. 1452 Clip-On Tool Tray, No. 418 Oiler, No. 819 Nipple Chuck. No. 32 Transporter.

* No. 304 retrofit kit converts 300 power drive to automatic oiling using:

- Gear head assembly with oil pump
- Oil pan assembly
- Oil spout
- Support bar
- Necessary connectors
- 1 gallon of Nu-Clear thread cutting oil

-Cat. No.	Model No.	Accessories Description	Wt. (lbs)
42360	1206	Stand for 300 Power Drive	31
83540	1206	Stand for 300 Power Drive Export	31
42575	32	Transporter (for Power Drives and Tri-stand Vises)	14-1/4
68815	311	Carriage with No. 312 Lever	15
42385	312	Carriage Feed Lever	3
10883	418	Oiler with 1 gallon of Nu-Clear Thread Cutting Oil	20-1/2
42365	341	Reamer for No. 311 Carriage with Lever	7
42370	360	Cutter for No. 311 Carriage	8-1/2
97065	811A	Universal Q.O. Die Head Only, Right-Hand Only	12-1/2
97075	815A	Self-Opening Die Head Only, Right Hand Only	13-1/2
51005	819	Nipple Chuck Complete, 1/2" - 2"	10-1/2
42380	1452	Clip-on Tool Tray	6
97365	-	Jaw Inserts for Coated Pipe	1/2
46660	E-863	LH/RH Reamer Cone	7
41620	-	Gearhead Motor Grease	1

Hand Tools

Ridgid

Receding Threaders:

No. 65R-TC

- Threads 1" - 2" pipe
- True centering workholder
- Jam-proof
- Right-hand only



No. 65R-C

- Threads 1" - 2" pipe
- Jam-proof drive pawl
- Cam workholder sets instantly
- Right-hand only

Cat. No.	Model No.	Description	Cap. Nom. Pipe Size (in)	Wt. (lbs)
36565	65R-C	NPT w/1 set high-speed dies	1 - 2	25
36570	65R-TC	NPT w/1 set high-speed dies	1 - 2	27
65340	65R-C	BSPT w/1 set high-speed dies	1 - 2	25
65345	65R-TC	BSPT w/1 set high-speed dies	1 - 2	27
96720	-	Metal Carrying Case for 65R Series Threaders	-	8

Nos. 141/161 Geared Threaders

- 141 threads 2-1/2", 3", 3-1/2", 4" pipe with one set of dies
- 161 threads 4", 4-1/2", 5", 6" pipe with one set of dies
- Jaw clutch prevents jamming
- Simple adjustment for tapered or straight threads
- Cam-type workholder sets instantly
- Fully enclosed gearing
- Right-hand only



Cat. No.	Model No.	Description	Cap. Nom. Pipe Size (in)	Wt. (lbs)
36620	141	NPT w/1 set high-speed dies	2-1/2 - 4	93
65380	141	BSPT w/1 set high-speed dies	2-1/2 - 4	93
36630	161	NPT w/1 set high-speed dies	4 - 6	158
65385	161	BSPT w/1 set high-speed dies	4 - 6	158
39380	D-1440	Ratchet and Handle	-	9-1/2
96725	-	Metal Carrying Case for 141 Geared Threaders	-	17
41620	-	Gearhead Motor Grease	-	1

Note: Threaders are shipped and priced without ratchet and handle.

Accessories for Nos. 141, 161 Geared Threaders:

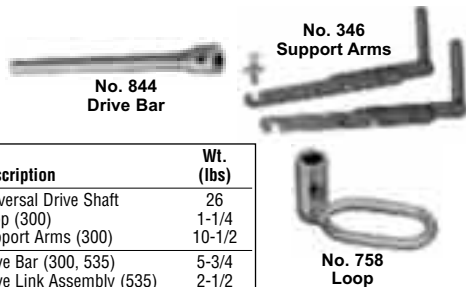
No. 840A Universal Drive Shaft

A telescoping (41" to 50") drive shaft for operation of Nos. 141 and 161 geared threaders with threading machines.



Geared Threader Operation

The Nos. 141 and 161 geared threaders, in conjunction with these accessories, allow power drives and threading machines to thread up to 4" and 6" pipe.



Cat. No.	Model No.	Description	Wt. (lbs)
61122	840A	Universal Drive Shaft	26
19366	758	Loop (300)	1-1/4
40005	346	Support Arms (300)	10-1/2
42405	844	Drive Bar (300, 535)	5-3/4
42415	768	Drive Link Assembly (535)	2-1/2

Dies for Receding Threaders

Pipe Dies for 141 Geared Pipe Threader

Die Material or Type		Catalog No.		
		(NPT) National Pipe Taper	(BSPT) British Standard Pipe Taper	Beveling Dies
		2-1/2" Thru 4"-8 TPI	2-1/2" Thru 4"-11 TPI	2-1/2" Thru 4"
High-Speed	RH	38120	*66625	-
H.S. for Stainless Steel	RH	70640	*70645	-
H.S. for Cast Iron	RH	38125	-	-
H.S. for PVC	RH	38130	-	-
H.S. 37-1/2° Bevel	-	-	-	38140

(NPSM) National Pipe Straight Mechanical - Use (NPT) Dies & Rotate Threader Guide Post 180°
(BSPP) British Standard Pipe Parallel - Use (BSPT) Dies & Rotate Threader Guide Post 180°

Pipe Dies for 161 Geared Pipe Threaders

Die Material or Type		Catalog No.		
		(NPT) National Pipe Taper	(BSPT) British Standard Pipe Taper	Beveling Dies
		4" Thru 6"-8 TPI	4" Thru 6"-11 TPI	4" Thru 6"
High-Speed	RH	38155	*66620	-
H.S. for Stainless Steel	RH	70655	-	-

(NPSM) National Pipe Straight Mechanical - Use (NPT) Dies and Rotate Threader Guide Post 180°
(BSPP) British Standard Pipe Parallel - Use (BSPT) Dies and Rotate Threader Guide Post 180°

Pipe Dies for 4PJ Geared Pipe Threaders

Die Material or Type		Catalog No.							
		(NPT) National Pipe Taper				(NPSM) National Pipe Straight Mechanical (1)			
		Nominal Pipe Size - Threads Per Inch				Nominal Pipe Size - Threads Per Inch			
		2-1/2"- 8	3"- 8	3-1/2"- 8	4"- 8	2-1/2"- 8	3"- 8	3-1/2"- 8	4"- 8
High-Speed	RH	38220	38225	38230	38235	46732	46737	46742	46747
H.S. for Cast Iron	RH	38240	38245	38250	38255	-	-	-	-

Die Material or Type		(BSPT) British Standard Pipe Taper				(BSPP) British Standard Pipe Parallel (2)			
		Nominal Pipe Size - Threads Per Inch				Nominal Pipe Size - Threads Per Inch			
		2-1/2"- 11	3"- 11	3-1/2"- 11	4"- 11	2-1/2"- 11	3"- 11	3-1/2"- 11	4"- 11
High-Speed	RH	*66535	*66540	-	*66550	-	-	-	-

Receding Threaders Pipe Dies for 65R-C & 65R-TC Ratchet Threaders

Die Material or Type		Catalog No.	
		(NPT) National Pipe Taper	(BSPT) British Std. Pipe Taper
		1" Thru 2"-11-1/2 TPI	1" Thru 2"-11 TPI
High-Speed	RH	38100	*66450
H.S. for Stainless Steel	RH	38105	-
H.S. for Cast Iron	RH	38110	-

*Requires BSPT Threader
(1) Requires NPSM Threader (2) Requires BSPP Threader

Thread Cutting Oil

- Cools threads and pipe during operation
- Speeds metal removal
- Improves thread quality
- Reduces threading torque



RIDGID thread cutting oils are free of chlorine and other halogens, PCBs and heavy metals. Complete material safety data sheet available.

Dark Oil - Traditional mineral oil with low odor and anti-mist formulation.

Nu-Clear Oil - Clear mineral oil with low odor and anti-mist formulation. Special low temperature properties maintain workable viscosity to -20°F.

Extreme Performance Oil - High performance mineral oil formulated to produce superior quality threads on stainless steel and black pipe.

Endura-Clear™ - Specially formulated to maximize wear resistance which increases die life up to 60% and significantly cuts operating costs up to 30% over Nu-Clear.

Container Size		Catalog No.				Cont. Per Case	Wt. Per Case (lbs)
U.S.	Metric	Nu-Clear	Dark	Extreme Perf	Endura Clear		
1 Qt.*	0.94L	-	41590	-	-	12	22
1 Gal.	3.78L	70835	70830	74012	32808	6	50
5 Gals	18.90L	41575	41600	74047	-	1	42
55-Gal Drum	207.90L	41585	41610	76767	-	1	465

*Flip-top included w/every quart bottle.