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(800) 666-6567

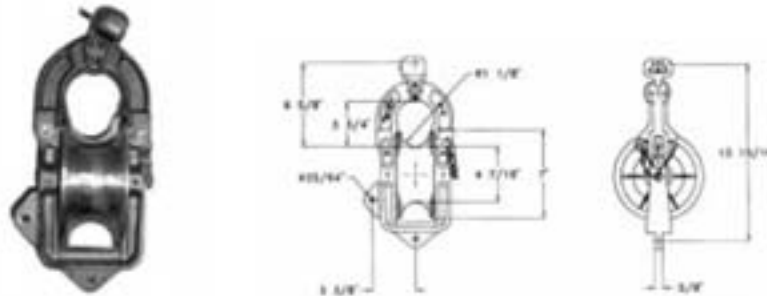
Western USA:  
(800) 444-7064



## Blocks

### Wagner Smith Equipment

## 7" Universal Stringing Blocks Model WSE 10



The Model 10 Universal Block is the solution to your search for a quality engineered sheave that is lightweight (7.8 lbs.), versatile, durable, and dependable. It can be intermixed with similar stringing blocks and mounting attachments manufactured by others, without affecting conductor sag or tension.

The quality of the model 10 block is not surpassed by any block of its type. Its aluminum parts are cast from high strength A356 alloy, heat treated to the T6 condition, giving it the capability of withstanding rough treatment under adverse conditions while supporting heavy loads.

The Model 10 may be attached directly to ANSI 52-3 & 5 ball and socket insulators using the socket eye supplied as an integral part of the unit.

The transfer of conductor or rope from the Model 10 Universal Block is quickly and easily accomplished by the removal of a single ball-lock pin. This pin is designed for safe, smooth, single motion hand operation. When released, the frame opens wide for conductor clipping.

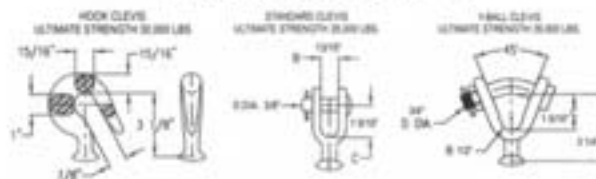
The sheave groove is profile machined for concentricity, thus permitting more precise sagging of the conductor. In addition, the block is available with urethane sheave lining (Model 10-UL). The Model 10 has adapter mounting lugs on each side of the frame. These allow positioning the sheave horizontally, if desired, when used with the many attachments available for the block.

### COMPLETE SPECIFICATION

Catalog Number	Maximum Diameter of conductor	Safe working load Suspend or lug mounted	ULTIMATE STRENGTH		Block net weight
			Suspended	Lug mounted	
<b>Model 10</b>	2"	2,500 lbs.	12,000 lbs.	7,500 lbs.	7.8 lbs.
	51 mm	1,134 kg	5,440 kg	3,400 kg	3.5 kg

Note: Dimensions for urethane lined sheave, Model 10-UL, are the same as machined sheave.

## CLEVIS FITTINGS





## Blocks

### Wagner Smith Equipment

## 7" Universal Stringing Blocks Model WSE 12



The Model 12 Universal Block is the solution to your search for a quality engineered sheave that is lightweight (9.4 lbs.), versatile, durable, and dependable. It can be intermixed with similar stringing blocks and mounting attachments manufactured by others, without affecting conductor sag or tension.

The quality of the model 12 block is not surpassed by any block of its type. Its aluminum parts are cast from high strength A356 alloy, heat treated to the T6 condition, giving it the capability of withstanding rough treatment under adverse conditions while supporting heavy loads.

The Model 12 may be attached directly to ANSI 52-3 & 5 ball and socket insulators using the socket eye supplied as an integral part of the unit.

The gate latch is designed for safe, smooth, single motion hot stick or hand operation. The latch gate can be locked in the open position, leaving the lineman's hand free for conductor removal from the sheave groove. When the latch is released, the gate closes and locks automatically—nothing to twist, turn, or push.

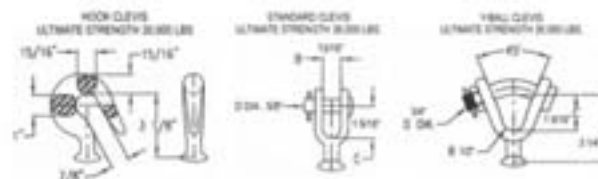
The sheave groove is profile machined for concentricity, thus permitting more precise sagging of the conductor. In addition, the block is available with urethane sheave lining (Model 12-UL). The Model 12 has adapter mounting lugs on each side of the frame. These allow positioning the sheave horizontally, if desired, when used with the many attachments available for the block.

### COMPLETE SPECIFICATION

Catalog Number	Maximum Diameter of conductor	Safe working load Suspend or lug mounted	ULTIMATE STRENGTH		Block net weight
			Suspended	Lug mounted	
<b>Model 12</b>	2"	2,500 lbs.	12,000 lbs.	7,500 lbs.	12.7 lbs.
	51 mm	1,134 kg	5,440 kg	3,400 kg	5.8 kg

Note: Dimensions for urethane lined sheave, Model 12-UL, are the same as machined sheave.

## CLEVIS FITTINGS





Blocks

## Wagner Smith Equipment

### Universal Crossarm Adapter Model WSE XA-3 & XA-3S

#### Universal Crossarm adapter specifications:

Safe work load with roller mounted - 2,500 lbs. (1,134KG).

Ultimate work load with roller mounted - 7,500 lbs. (3,402KG).

Net weight - 4.42 lbs. (2.50KG).

#### Material:

Frame, clamping bars - A356-T6 aluminum alloy.

Fasteners & pins - steel, cadmium or electro-zinc plated.

#### Number of mounting positions on x-arm attachment:

5; vertical (0°), 22°, 45°, 68°, 90°.



XA-3  
Fits 4 1/2" x 6 1/4"  
Crossarms



SA-3S  
Fits 5 3/4" x 6 1/4"  
Crossarms

### Clamp Type Insulator Adapter Model WSE 1A-1C



#### Universal Insulator Adapter 1A - 1C

For Use on Post Insulators (Vertical or Horizontal)

### Universal Crossarm Adapter Model WSE XA-1

#### Universal Crossarm adapter specifications:

Safe work load with roller mounted - 2,500 lbs. (1,134KG).

Ultimate work load with roller mounted - 7,500 lbs. (3,402KG).

Net weight - 3.25 lbs. (1.84KG).

#### Material:

Frame, clamping bars - A356-T6 aluminum alloy.

Fasteners & pins - steel, cadmium or electro-zinc plated.

#### Number of mounting positions on x-arm attachment:

5; vertical (0°), 22°, 45°, 68°, 90°.

#### Note:

XA-1 Adapter fits 4 3/4" X 6 1/4" crossarm.



Universal Crossarm Adapter Model WSE XA-1 & XA-3S



Clamp Type Insulator Adapter Model WSE 1A-1C



Universal Insulator Adapter  
1A - 1C  
For Use on Post Insulators (Vertical or Horizontal)

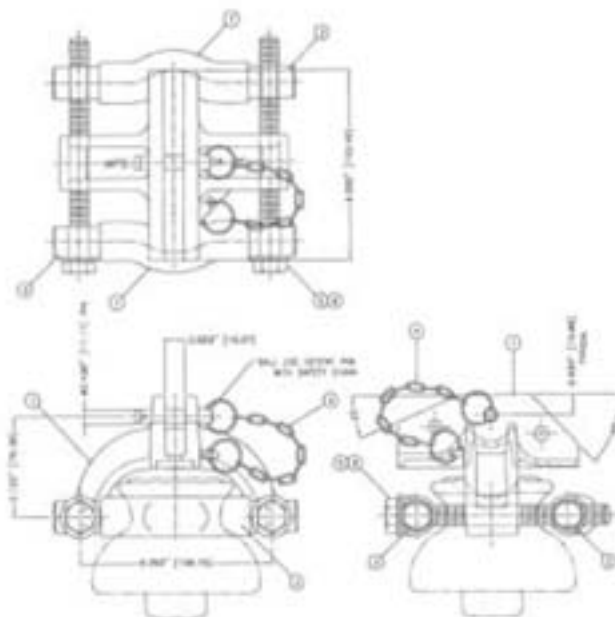
90° 22°

45° 68°

TYPICAL APPLICATIONS  
(Universal Roller Not Included)



Universal Insulator Adaptor  
IA - 2C





## Blocks

### Wagner Smith Equipment

## Heavy Duty Static Blocks Model WSE 30

The TV-S1 series static block is lightweight, rugged, durable, and dependable. These features make it the answer to your static wire stringing problems. It is the most cost efficient static block you can buy.

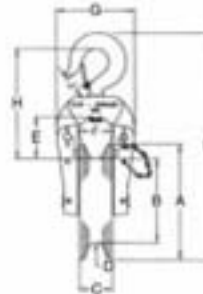
The extra large contoured and guarded throat allows swivels and grip to pass safely through during operation. Precision ground ball bearings are maintenance free requiring infrequent lubrication. A grease fitting is standard equipment. The extra short distance from the sheave groove to the tower attachment point allows the block to be used in confined locations. A captivated ball detent pin assures safe locking of the yoke and easy opening during the clipping operation.

The durability of the block is enhanced by the application of corrosion protection on all appropriate surfaces. High strength castings of A356-T6 primary aluminum alloy provide the ability to withstand rough treatment under adverse conditions while supporting extreme loads. The simplicity in design, sound engineering principles and quality construction make the TV-S1 series the most dependable static block available.

- Forged steel safety swivel hook
- Precision ground ball bearings
- Polished aluminum sheave
- Ductile iron sheave
- Urethane lined sheave



Safety Swivel Hook  
"S1" Series



Straight Yoke  
"S2" Series



CATALOG NUMBER	PHYSICAL DIMENSIONS ALL DIMENSIONS GIVEN IN INCHES											
	A	B	C	D	E	F	G	H	J	K	L	M
30 - 6 / 4.5	6	4-1/2	1-3/4	7/16	1-3/4	2	4-3/4	5-7/8	1	12	9	2-3/4
30 - 8 / 6	8	6	1-3/4	7/16	2	2	4-3/4	7	1-1/8	16	10-3/4	2-3/4
30 - 10 / 8	10	8	2	17/32	2	2-1/4	5-1/4	7-3/4	1-11/32	18	13	3
30 - 12 / 10	12	10	2-1/4	19/32	2	2-1/2	5-1/2	7-3/4	1-11/32	20	15	3

CATALOG NUMBER ①	MAX. WIRE DIA.	GENERAL INFORMATION				
		WEIGHT IN POUNDS			SAFE WORKING LOAD IN POUNDS	
		AL	U	DI		
30 - 6/4.5	3/4	5	5.5	10	3000	
30 - 8/6	3/4	6	7	17	5000	
30 - 10/8	7/8	10.5	12	①	7000	
30 - 12/10	1-1/8	13	15	①	8000	

- ① Add suffixes to catalog number as follows:  
 AL = Polished Aluminum Sheaves Standard  
 U = Urethane Lining Available  
 DI = Ductile Iron Sheave  
 Ductile Iron Not Available in 8" - 10" - 12" sizes



Blocks

Wagner Smith Equipment

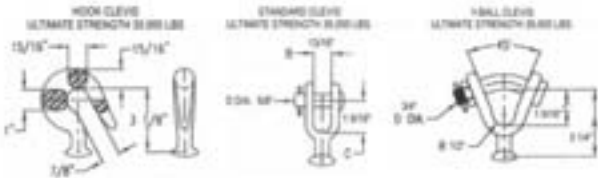
Conductor Stringing Blocks Model WSE 50-Full Frame



CATALOG NUMBER	GENERAL INFORMATIONALL DIMENSIONS GIVEN ININCHES INCHES								SAFE WORKING LOAD IN POUNDS
	A	B	C	D	E	F	G	WEIGHT	
50-12/10AL	12.5	10	2.25	0.594	3.75	5	20.25	22	4000
50-12/10UL									
50-16/14AL									
50-16/14UL	16.5	14	2.375	0.719	3.5	5	24.25	26.25	6000
50-22/18AL									
50-22/18UL	22	18	3.25	0.813	4	6.125	30	43.5	8000
50-28/24AL									
50-28/24UL	28	24	3.25	0.813	4	6.125	36	48.25	8000
50-34/30AL									
50-34/30UL	34.25	30.25	3.5	1.125	4.375	6.375	43	69	8000

- 1. Suffix: "AL" - Polished Aluminum
- 2. "UL" - Urethane Lined
- 3. Safe Working Load Based on 3:1 Safety Factor.

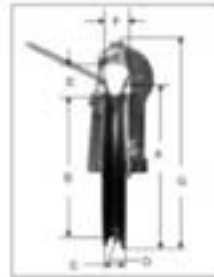
CLEVIS FITTINGS





## Blocks

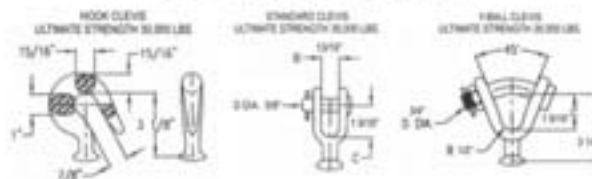
### Wagner Smith Equipment Conductor Stringing Blocks Model WSE 60-Helicopter



CATALOG NUMBER	GENERAL INFORMATION ALL DIMENSIONS GIVEN IN INCHES								SAFE WORKING LOAD IN POUNDS
	A	B	C	D	E	F	G	WEIGHT	
60-12/10AL	12.5	12	2.25	0.594	3.375	5	20.25	20.5	4000
60-12/10UL									
60-16/14AL	16.5	14	2.375	0.719	3.5	5	24.25	25	6000
60-16/14UL									
60-22/18AL	22	18	3.25	0.813	4	6.125	30	41.5	8000
60-22/18UL									
60-28/24AL	28	24	3.25	0.813	4	6.125	36	46.5	8000
60-28/24UL									

1. Suffix: "AL" - Polished Aluminum
2. "UL" - Urethane Lined
3. Safe Working Load Based on 3:1 Safety Factor.

### CLEVIS FITTINGS



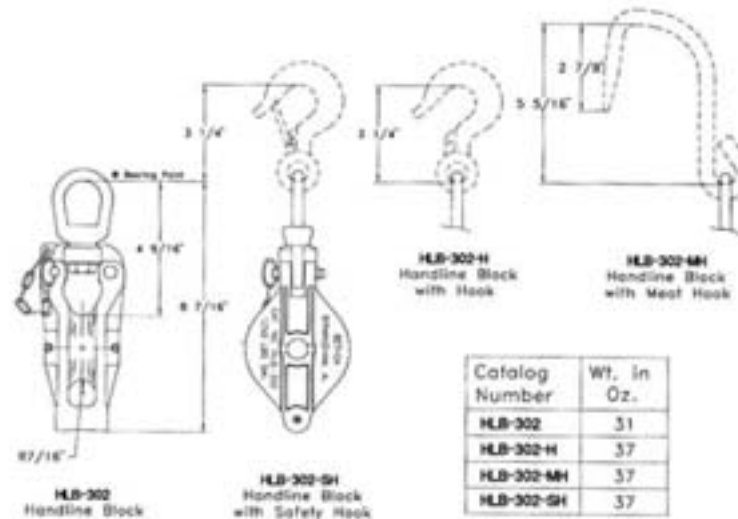




**Wagner Smith Equipment**

**Blocks**

## Handline Blocks Model WSE HLB-302 Series



\*For Closed Head Series, please add suffix "C" behind HLB-302.  
For example: HLB-302C-SH

The **HLB-302** Handline Block Series possesses all the features of quality design and engineering. The swivel eye is made of forged steel and is fastened to head with a welded bolt for positive security. The standard open head block has one 5/16" diameter steel roll pin, is capped with tinier rivets, and has one 5/16" diameter steel detent pin. The detent pin is secured to the block with a length of welded steel chain. The 3" diameter free running sheave is profile machined to exacting tolerances for greater lifting efficiency. The shielded ball bearings are permanently lubricated and have a rating of 1250 lbs. at a sheave speed of 100 rpm for an average life of 2500 hours at the rated loads and speeds. The frame, head, and sheave are cast from high strength A356-T6 aluminum alloy. The 17mm diameter steel axle is secured in the frame by steel drive pins driven through each end of the axle. Pins are positioned by recessed slots in frame to prevent rotation of the axle. Body frame halves are securely riveted together with a 1/4" drive pin. For closed head blocks, **HLB-302C**, two 5/16" diameter steel rod pins are used and capped with tinier rivets.



## Blocks and Accessories

### Bashlin

#### Handline

##### A. 35 Hook

Handline hook, 500 lb capacity

### Bethea

#### Handline

HLB1250 3" handline block with hook

HLB1250MH 3" handline block with meat hook

HLB1250SH 3" handline block with safety hook

### AB Chance

#### Block & Tackle

C400-0918 Triple block without becket. Made of high dielectric nylon. 3500 lb rating.

C400-0919 Double block with becket. Made of high dielectric nylon. 3500 lb rating.

### Brewer-Titchener

#### B. Block & Tackle

7206934 4" wood shell double block for manila rope. "Bushed" flatted, loose swivel hook with latch.

7206936 4" wood shell double block for manila rope. "Bushed" round, flatted loose hook with latch.

7207136 6" wood shell double block for manila rope. "Bushed" round, flatted loose hook with latch.

#### C. Nylon blocks for manila rope.

2" sheave for use with manila rope 3/8" to 1/2".

##### Loose, hook with latch

Model	Type	Rating
7220213	Single	500 lb
7222213	Double	1000 lb
7223213	Triple	1200 lb

##### Loose, swivel with latch

Model	Type	Rating
7220214	Single	500 lb
7222214	Double	1000 lb
7223214	Triple	1200 lb

##### Screw pin anchor shackle

Model	Type	Rating
7220215	Single	500 lb
7222215	Double	1000 lb
7223215	Triple	1200 lb

### Cooper

#### D. Snatch Blocks

Drop Link, Manila Rope Snatch Blocks. Wood shell with drop forged fittings and self lubricating bushing. Stiff swivel hook with latch. Used as lead blocks, not recommended for hoisting.

Model	Size	Rating
7265486	4 inch	750 lb
7265686	6 inch	2400 lb
7265886	8 inch	4800 lb

#### E. Extra Heavy Duty Snatch Blocks

Steel shells with drop forged fittings and self lubricating bushings.

Stiff swivel hook with latch. Handles wire and manila rope.

Model	Size	Rating
7336624	6 inch	2 ton
7336824	8 inch	3 ton

#### F. Linemans' Snatch Block

For stringing light conductor cable.

Hook fits around insulator pin or in the insulator hole, which can be driven into a pole or cross arm.

Model	Hook
7380602	with hook
7380603	without hook

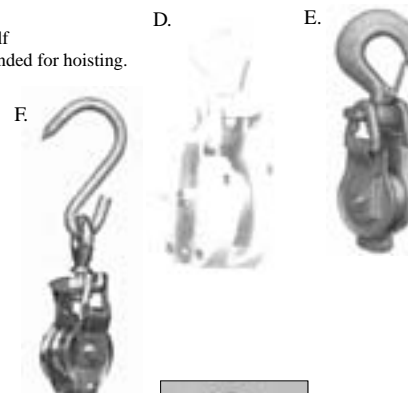
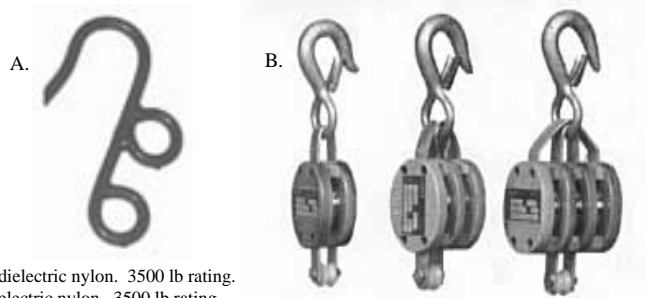
### Hastings

G. Handline Blocks Hand Line Blocks Constructed of rugged nylon fiberglass.

3" sheave can accommodate up to 5/8" rope. 1000 lb working load.

#### Model Description

3550	Side opening block w/swivel hook and safety snap
3550-1	Side opening block w/swivel meat hook
3553	Side opening block w/swivel eye only
3551	Closed block w/swivel hook and safety snap
3551-1	Closed block w/swivel meat hook
3554	Closed block w/swivel eye only
10-147	Meat hook only for blocks





## Blocks and Accessories

### Kearney

#### A. Handline

303 Series Handline Blocks Lightweight aluminum alloy.  
1000 lb safe working load.

Ordering Code	Description
303	Basic block with closed head swivel ring.
303P	Basic block with quick opening snatch block head and captive stainless steel pull pin.
B2	Bronze oilite bearings.
B4	Sealed ball bearings.
H	Forged steel sliphook.
J	Forged steel safety sliphook.
M	Steel meat hook.
S	Stainless steel lined sheave for use with wire rope (optional on B4 models).

#### B. Kearney Snatch Block

606 & 808 Series Rope snatch blocks.

Ordering Code	Description
606	6 inch heat-treated aluminum sheave for use with manila or synthetic rope.
808	8 inch heat-treated aluminum sheave for use with manila or synthetic rope.
B2	Bronze oilite bearings.
B5	Timken roller bearings with grease fittings.
W	Manganese steel alloy sheave for use with wire rope.
H	Forged steel safety swivel hook with latch crosshead opening.
P	Forged steel safety swivel hook with pull pin crosshead opening.
Y	Forged steel yoke.
G	Steel line guard.
S	Steel swivel shackle.

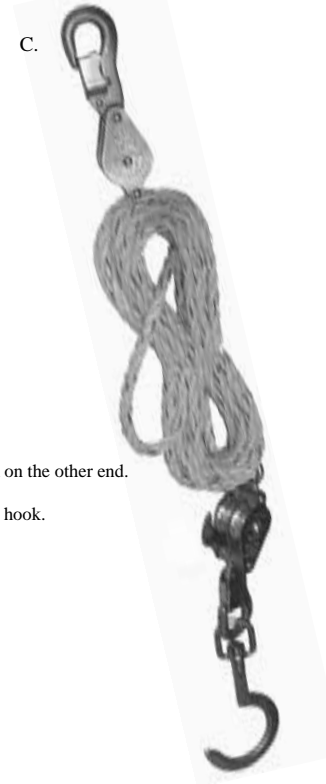


### Klein

#### C.1802 Block & Tackle

Light, galvanized steel shell block fitted with snubbing hooks to hold the load in any position.  
Not for human support. 750 lb safe working load.

Model	Description
267	Plain block, galvanized steel and aluminum alloy. Bronze bushings.
268	Same as 267, but with eye to splice line to block and rope tie-off hook.
H267	Same as 267, but nose extends over keeper.
H268	Same as 268, but nose extends over keeper.
443A	Snap hook, 5 1/2" overall length, 1" eye ID, 1/2" throat opening.
470	Swivel hook with plunger latch, 5" overall length, 1" ID, 5/8" throat opening.
258	Anchor hook, 5 1/2" overall length, 5/8" ID, 3 1/4" throat opening.
259	Swivel anchor hook, 6 1/2" overall length, 1" ID, 3 1/4" throat opening.
1802-30	Has a 267 block with 25' of 3/8" rope, and a 258 anchor hook on one end, and a 268 block on the other end.
1802-30 SR	Same as 1802-30 but with rope spliced to a 268 block.
1802-30S	Same as above except supplied with a 259 detachable swivel anchor hook instead of a 258 hook.
1802-30S SR	Same as above but with rope spliced to a 268 block.
H1802-30	Has a H267 block with 25' of 3/8" rope, and a 258 anchor hook on one end, and a H268 block on the other end.
H1802-30 SR	Same as H1802-30 but with rope spliced to a H268 block.
H1802-30S	Same as above except supplied with a 259 detachable swivel anchor hook instead of a 258 hook.
H1802-30S SR	Same as above but with rope spliced to a H268 block.





## Blocks and Accessories

### Morpac Industries

#### A. Running Board

Made to order 2, 3, and 4 conductor.

All steel construction complete with alligator tail.

### Skookum

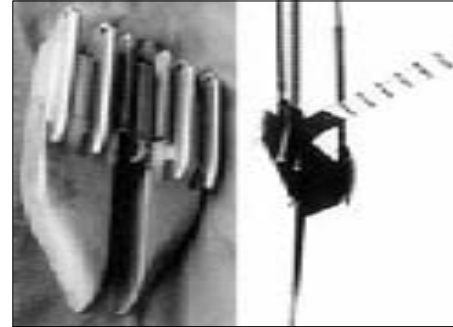
#### B. Half Side Blocks Bronze Bearing

Model	Sheave Size (in)	Sheave Pin Size (in)	Line Size (in)	Wt. (lb)	Safe Working Load (lb)
A-4	4x1 3/8	1 1/4	3/8	11	10,000
A-6	6x1 1/8	1 1/2	3/8-1/2	17	14,000
A-8	8x1 1/8	1 1/2	1/2-5/8	29	16,000
A-10	10x1 1/4	1 1/2	5/8-3/4	34	16,000
A-12	12x1 3/8	1 15/16	3/4-7/8	55	27,000

#### C. Wide Sheave-Wide Throat Blocks

Model	Sheave Size (in)	Sheave Pin Size (in)	Line Size (in)	Wt. (lb)	Safe Working Load (lb)
R-4	4x3	1 3/8	5/16-1/2	12	10,000
R-6	6x3	1 3/8	3/8-1/2	30	16,000
R-8	8x3	1 3/8	1/2-5/8	43	16,000
R-10	10x4	1 15/16	1/2-5/8	50	18,000

A.



B.



C.





## Cutting Tools

### Burndy Cable Cutters

#### A. MCC500

The MCC manual cable cutters are precision high quality tools designed to cut up to 500 kcmil and 1000 kcmil copper and aluminum cables respectively. Rugged steel blades and fiberglass handle construction provides cutting ease, minimum cable distortion and long life.

##### Features Selected :

Cable Cutter Type Manual

Maximum Conductors Accommodated:

Aluminum - #500 kcmil

Copper - #500 kcmil

Jaw Opening 1.3 in

Replacement Fixed Cutting Blade-None

Replacement Moveable Cutting Blade-None

Steel Carrying Case-None

Weight - 3.5 lb

Length - 21 in

Width - 5 in

Warranty - 1 Year

A.



B.



#### B. RCC556

The RCC ratchet cable cutters are precision high quality tools designed to cut up to 556 ACSR and 1000 kcmil copper and aluminum cables respectively. The tool is equipped with rugged sleet blades, a precision bi-directional ratchet mechanism for positive blade control, a fast action thumb slide collar for fast blade movement (when not cutting) and rugged fiberglass handles.

##### Features Selected :

Cable Cutter Type Ratchet

Maximum Conductors Accommodated:

ACSR - 556

Aluminum - #600 kcmil

Copper - #600 kcmil

Jaw Opening 0.95 in

Replacement Fixed Cutting Blade-None

Replacement Moveable Cutting Blade-None

Steel Carrying Case-None

Weight - 4.0 lb

Length - 18 in

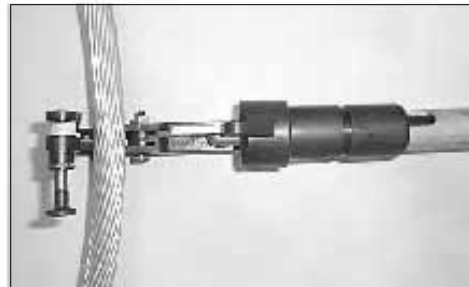
Width - 5.5 in

Warranty - 1 Year

C.



D.



### Cact-Co Inc.

#### C. A1 & A2

The Model A1 and A2 power line cutters are light weight (4.9 lbs, 15 inches long) industrial cutting tools. Cutting electrical and structural cable has been reduced to an easy task with the advent of the CACT-Co family of cartridge actuated cutters. These cutters will sever 0.68 inch (ACSR) cable, 1/2 inch guy wires, 3/4 inch bolts and ground rods.

#### D. A4

The model A4 cutter is a lightweight, portable, cartridge actuated, heavy duty cutting tool. The cartridge is a compact energy source that generates the forces necessary to drive a blade and piston assembly to make a clean, fast cut in steel reinforced aluminum cable from 5/8 inch to 1 1/2 inch. The combination of two blades and an extremely fast function time makes a cut surface ready for a good splice.

#### A5

The Model A5 cutter was designed to meet the needs of the power industry in cutting large diameter power distribution and transmission lines. Two inch diameter 1000 KCMIL AL cable has been the benchmark cable for this cutter. Our customers have requested an evaluation of the model A5 on "Bluebird" ACSR-2156. We can now report a successful technique for cutting this cable with the Model A5 cutter.



## Cutting Tools

### H.K. Porter Bolt-Type Cutters

#### A. 0190FC

All purpose Jaws with center-cut blades, cuts soft, medium, and hard metals. Fiberglass handles.

Part	Length	Soft and Hard Materials (up to Brinell 300, Rockwell C31)	Hard Materials (up to Brinell 455, Rockwell C48)
0090FC	18 1/4"	3/8"	1/4"
0190F	24 1/2"	7/16"	5/16"
0290FC	30 1/2"	1/2"	3/8"
0390FC	36 1/2"	9/16"	7/16"

A.



#### B. 1490MC

General plant maintenance tool, drop-forged precision ground, alloy tool steel with center-cut blades. Steel handles.

Part	Length	Soft and Hard Materials (up to Brinell 300, Rockwell C31)	Hard Materials (up to Brinell 455, Rockwell C48)
1490MC	14"	5/16"	3/16"
0090MC	18"	3/8"	1/4"
0190MC	24"	7/16"	5/16"
0290MC	30"	1/2"	3/8"
0390MC	36"	9/16"	7/16"
0590MC	42"	1 1/16"	1/2"

B.



#### C. 0190MCX

Heavy Duty Cutters recommended for the most demanding hand cutting applications. Heavy-duty straps support the jaws. Steel or fiberglass handles.

Part	Length	Hard Metal, Wire Mesh and Reinforcing Rod and Bar
0190MCX	24"	5/16"
0290MCX	30"	3/8"
0390MCX	36"	7/16"
0590MCX	42"	1/2"
Same as above, but with fiberglass handles		
0190FXC	24"	5/16"
0390FCX	36"	7/16"

C.



#### D. 1490MNE

Industrial grade clipper cutters.

Part	Length	Soft and Hard Materials (up to Brinell 200, Rockwell C15)	Hard Materials (up to Brinell 300, Rockwell C31)
1490MNE	14"	5/16"	1/4"
0090MNE	18"	3/8"	5/16"
0190MNE	24"	7/16"	3/8"
0290MNE	30"	1/2"	7/16"
0390MNE	36"	9/16"	1/2"
0590MNE	42"	1 1/16"	9/16"

D.



#### E. 0290FCS

Shear type hand operated cutters. Fiberglass handles.

Part	Length	Copper Power Cable	Aluminum Power Cable	Communications Cable
0290FCS	25 1/2"	500 MCM	750 MCM	1 3/8"
0390FCS	32"	750 MCM	1200 MCM	1 3/4"

E.





## Cutting Tools

### H.K. Porter Bolt-Type Cutters

#### A. 0390CSP

Communication Cable Cutters give clean, sharp cut with minimal distortion. Cuts lead, and rubber-covered communications cable only.

Do not cut hard cable, ACSR, strand, or steel.

Part	Length	Communication Cable
0190CSP	23 1/2"	1"
0390CSP	37"	2 1/4"

#### B. 0890CSJ

Compact, electric cable cutter.

Part	Length	Copper Cable	Aluminum Cable
0690CSJ	8 1/4"	1/0	3/0
0890CSJ	9 1/2"	2/0	4/0

#### C. 6990FS

Compact Ratcheting Cable Cutter

Part	Length	Copper Cable	Aluminum Cable	Communication Cable
<b>Soft Cable</b>				
6990FS	14"	500 MCM	795 MCM	1 3/16"
6990FSL	19"	750 MCM	795 MCM	1 3/16"
6990TS	14"	500 MCM	795 MCM	1 3/16"
<b>Hard Cable</b>				
		<b>Single Core ACSR</b>		<b>Three Core ACSR</b>
6990FHL	19"	653 MCM		336 MCM

\* Do not cut EHS Guy Wire.

#### D. 8690FSK

Ratchet Type, Soft Cable Cutter

Part	Length	Copper and Aluminum
8690FSK	27 1/2"	2"

#### E. 8690CS

Ratchet Type, Soft Cable Cutter including Communication Cable.

Part	Length	Copper and Aluminum Power/Comm. Cable
8690CS	29 3/4"	3"

#### F. 8690FH

Ratchet Type, Hard Cable Cutter

Part	Length	ACSR, ACAR, ZEBRA, and Tele Cable (Self Supporting)
8690FH	29 1/4"	1 3/16"

#### G. 8690CK

Ratchet Type, Guy Strand Cutter

Part	Length	EHS Guy Strand	Common Strand
8690CK	28"	1/2"	1/2"

#### H. 8690TN

Ratchet Type, Wire Rope Cutter

Part	Length	Aircraft, Hard Stainless	EHS Guy Strand
8690TN	36"	3/4"	5/8"

#### I. Hand held ratchet cutter

Allows industrial users to cut up to 600MCM Copper and 750MCM Aluminum (50090RFS) or up to 1000MCM Copper or Aluminum cable (60090RFS).

Part	Copper	Aluminum
50090RFS	600	750
60090RFS	1000	1000

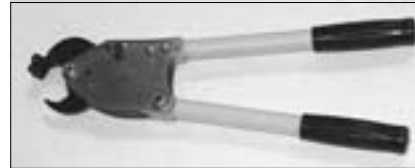
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## Cutting Tools

### Greenlee

**A.** Heavy-duty cable cutters with fiberglass handles

Part	Length	Copper	Aluminum	Comm. Cable
704	21"	350 MCM	500 MCM	1"
706	31 1/2"	750 MCM	1000 MCM	1 1/2"

**B.** Small Cable Cutter

Part	Length	Copper	Aluminum	Comm. Cable
727	9 1/4"	2/0	2/0	100 Pair

**C.** ACSR Cable Cutter with steel handles

Part	Length	ACSR	Piano Wire
749	28"	2/0, 7/16"	1/8"

### Greenlee

**D.** Ratchet ACSR/Cable Cutter

Part	Length	ACSR	Soft Steel Rod
757	29 1/4"	954 MCM	1/2"

**E.** EHS Guy Wire Cutter has two actions - single motion for cutting small cable, and ratchet action for heavy-duty cutting.

Part	Length	EHS & Guy	Mild Steel Rods/Bolts
758	27 3/4"	1/2"	1/2"

### Hastings

**F.** Cable cutter for use on soft copper and all aluminum cable

Part	Length	Copper
10-070	20 1/2"	350 MCM
10-072	28 3/4"	500 MCM

### Huskie

**G. RI-500** This tool was designed to cut up to 500 MCM copper cables.

The durable handles are made of a high-visibility, orange plastic. Its cutting head is black oxide coated to help reduce corrosion. A carrying pouch is included.

Part	Length	Copper	Aluminum
RI-500	10"	500 MCM	1 1/4"

**H. R-750B** The R-750 has a ratchet mechanism that has been designed to withstand the stress of 750 MCM copper and aluminum with a maximum outside diameter of 1 3/4". A thumb release lever allows the operator to back out of a cut when necessary. A locking mechanism closes the handles for easy storage. A carrying pouch is included.

Length	Copper	Aluminum
9"	750 MCM	1 3/4"

### I. Manual Hydraulic Cutters

Part	S-20	S-24	S-55
Output	4 tons	7.8 tons	13 tons
Length	15"	17"	24"
Copper	3/4"	7/8"	2"
Rebar(Sc 40)	1/2"	5/8"	3/4"
Anchor Rod	1/2"	5/8"	3/4"
Wire Rope	3/4"	7/8"	1"
Standard Guy Wire	1/2"	5/8"	3/4"
Aluminum	3/4"	7/8"	2"
Ground Rod	1/2"	5/8"	3/4"
ACSR	3/4"	7/8"	2"
Soft Steel Bolts	11/16"	7/8"	1 1/4"
Telecommunication Cable	Do Not Cut	Do Not Cut	Do Not Cut
Lead Sheath Cable	Do Not Cut	Do Not Cut	Do Not Cut
EHS Guy wire	Do Not Cut	Do Not Cut	Do Not Cut

For EHS guy wire, specify S-24CC.

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## Cutting Tools

### Klein Tools

**A. 63041** Lightweight shear-type cable cutters designed for soft cable. Fiberglass handles.

Part	Length	Copper	Aluminum
63041	25 1/2"	500 MCM	750 MCM
63045	32"	1000 MCM	1200 MCM

**B.** One handed cable cutter with ratchet-action. Holds cable tight and allows rapid straight cuts with minimum effort.

Part	Length	Copper	AL & Multi
63060	10"	400 MCM	600 MCM

### Greenlee Bolt Cutters

**C.** Heavy-duty bolt cutters with fiberglass handles.

Part	Handle Length	RB85	RC48
01189	18"	5/16"	7/32"
01250	24"	3/8"	9/32"

### Hastings Bolt Cutters

**D.** High tensile steel bolt cutters with insulated fiberglass handles.

Part	Length	Brinell 140	Brinell 230	Brinell 370	Brinell450
10-666	12"	3/8"	5/16"	5/16"	9/32"
10-667	16"	3/8"	5/16"	5/16"	9/32"

### Klein Tools Bolt Cutters

**E.** Strong and lightweight bolt cutters with steel handles.

Part	Length	Brinell 300 Rockwell C31	Brinell 400 Rockwell C42
63318	18"	3/8"	1/4"
63324	24"	7/16"	5/16"
63336	36"	9/16"	7/16"

### Huskie Remote Hydraulic Cutters

#### F. SP-55

The SP-55 has a hinged head that can be opened for easy cable or bar insertion. The movable blade advances in a shear fashion, to cut the material cleanly. When the cutting pressure is relieved, an internal ram spring retracts the blade. The guillotine cutting style was chosen over scissor type cutting because of its powerful output force, larger cable capacities, compact size, and reliability. This tool can be used underwater. A 3/8" screw-type male coupler is included.

#### SP-55

Output	13.12 tons
Length	17"
Rebar (Sc 40)	3/4"
Anchor Rod	3/4"
Wire Rope	1"
Standard Guy Wire	3/4"
Ground Rod	3/4"
ACSR	2"
Soft Steel Bolts	7/8"
EHS Guy wire	Do Not Cut

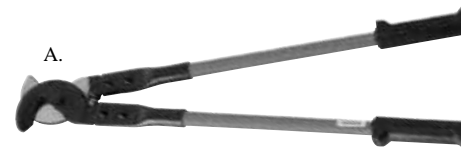
For EHS guy wire, specify SP-24CC

#### SP-85

The SP-85 has a hinged head that can be opened for easy cable or bar insertion. The movable blade advances in a shear fashion, to cut the material cleanly. When the cutting pressure is relieved, an internal ram spring retracts the blade. The guillotine cutting style was chosen over scissor type cutting because of its powerful output force, larger cable capacities, compact size, and reliability. This tool can be used underwater. A 3/8" screw-type male coupler is included.

#### SP-85

Output	2.7 tons
Length	19"
Telecommunication Cable	3.35"
Lead Sheath Cable	3.35"
Copper	3"
Aluminum	3"
ACSR	Do Not Cut
Standard Guy Wire	Do Not Cut





## Cutting Tools

### Cleveland Steel

#### A. Timber Ring Cutters

Used to cut grooves for timber rings, high speed steel blades, depth gauge and pilot to fit in bolt hole. May be used in 3/4" portable drill or drill press. Blades may be resharpened per instructions packed with tool.

Part	Timber Ring Size	Hole Size
301 Tool	2 1/2"	9/16" dia.
302 Tool	4"	13/16" dia.

#### B. Timber Rings for Timber Ring Cutter

Carbon steel split rings are primarily used in the assembly of clear spans ranging from 20' to 250' and are available in 2 1/2" and 4" diameters. Generally, the 2 1/2" diameter ring is used for lighter trusses and trussed rafters utilizing 2" lumber; the 4" diameter ring is used for heavier trusses using 3" and heavier material.

##### Lumber Min. Dimensions

Part	Inside dia	Depth	Bolt dia	Ring in 1 Face	Ring in Bolt Face
Teco -2.5	2 1/2"	3/4"	1/2"	1" x 3 1/2"	1 1/2" x 3 1/2"
Teco - 4	4"	1"	3/4"	1" x 5 1/2"	1 1/2" x 5 1/2"

#### C. Dapping Tool Cutters

Dapping tools are designed with several blades and cutters to produce a dap of the same shape as the shear plate. Insert the pilot in a predrilled hole or a drill bit may be used to drill and dap.

Shear Plate	Hole size
303 Tool SP2.6	13/16" dia.
304 Tool SP4	13/16" dia.
304S ToolSP4S	15/16" dia.

#### D. Shear Plates for Dapping Tool

Are set in pre-cut daps in wood timbers, flush with the face of the wood. The shear plate spreads the load and reduces the number of bolts required. Made of malleable iron to ASTM specification A-47, Grade 325.10. Shear plates may be secured with nails for security in handling and transit.

Part	Outside Dia	Bolt Size
SP2.6	2 5/8"	3/4"
SP4	4"	3/4"
SP4S	4"	7/8"

### Cooper Tools Misc Cutter

#### E. Steel strap cutter gives clean, smooth, easy cuts.

Part	Length	Flat Steel Strap	Steel Tie Wire
0990T	9"	3/4" x .035"	0.08"
1290G	12"	1 1/4" x .050"	

### Huskie Battery Cable Cutter

#### F. REC-54

The Huskie REC-54 is a heavy duty cable cutter used to cut ACSR up to 636, and 750 MCM copper. The large jaw opening will also accommodate aluminum cables up to 1500 MCM.

#### REC-54AC

The REC-54AC was designed to cut aluminum and stranded or flex copper cables. The jaws will accept a maximum of 1500 MCM copper and aluminum. The operation of this tool is the same as the REC-54 but it has sharper blades for cutting only non-ferrous materials. Do not cut steel with this model, or blade damage will occur.

#### G. REC-430Y

The REC-430Y is designed to cut ACSR cables up to 336 MCM, and uses 6 tons of pressure to cut materials. The head can be rotated 180 degrees for greater maneuverability. A keeper plate prevents jaws from spreading apart when cutting ACSR.

#### REC-434YC

Large copper cable cutting is finally made easy—just pull the trigger and 6 tons immediately goes to work for you. This tool is similar to the REC-430Y, but has a slightly larger jaw opening without a "keeper" guard. Its sharp blades are rated for copper and aluminum cables only, up to 1.4" outside diameter.

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## Cutting Tools

### Huskie Battery Cable Cutter

**A. REC-460YC** The REC-460YC works well for most underground aluminum cable cutting applications. It was designed to cut copper cables up to 500 MCM and aluminum up to 2.5" maximum outside diameter. The extra wide jaws make cutting the larger diameter underground cables easier. 6 ton output.

**REC-S420** The REC-S420 was designed to cut the toughest steel used in construction today. It can replace an entire tool kit, including several sizes of conventional bolt cutters, hacksaws, acetylene torches and cable cutters. With the pull of a trigger, you can cut ACSR cables up to 3/4", standard guy wires to 7/16", and ground rods to 1/2". The specially designed flip-top latch and rotating head provide exceptional ease of use and maneuverability in tight working quarters. The REC-S20 has an overload bypass that will kick out when the tool reaches 6.6 tons or is attempting to cut cables beyond its capacities.

**B. REC-S424** Similar to the REC-420, but with 8 tons of output. Can cut 7/8" wire rope, 5/8" rebar (Sc40), 1/2" rebar (Sc60), 5/8" ground rod, 477 MCM ACSR, and 5/8" guy wire.

**C. REC-S440** The Huskie model REC-S440 is designed to cut ACSR cables up to 1.5" and regular guy wires and ground rod up to 5/8". Our ROBO\*CUT is ideal for aerial bucket work and trench operations. This cutter is made for one handed operation. Simply remove the pin latch, place over cable, reinsert pin, and cut. A built-in bypass will pop off if the material is beyond the cutter's capacity. It is not recommended to cut hardened steel because the blades will become damaged. 8 ton output.

**D. REC-485YC** The REC-485YC is designed to cut copper and aluminum cables as well as lead-sheathed telecommunication cables. The extremely large jaws and scissor-type blades allow for easy cutting of large underground cables. The sidebar handle allows the user to stabilize and balance the tool. This tool also has a built-in bypass cartridge to avoid cutter damage for those cables that are beyond the cutter's capacity. The open jaw design allows the user to scoop up cables that are against the wall, in hard to reach areas and on the ground. Can cut up to 3.3" Aluminum, 1000MCM Copper, 3" Telecommunication Cable, and 2.5" Lead Sheath Cable.

### Burndy Battery Cable Cutter

**E. PATCUT129ACSR-18V** Compact, fast, and easy to use, the PATCUT incorporates the latest in battery tool technology. The ergonomic design allows one hand operation so the user has one hand free to manipulate the conductor into the proper cutting position. Also, the PATCUT incorporates a specialized latch-style cutting head that allows interference-free closure for mid-span cuts and rotates 180 degrees to allow users to get into tight areas easier. The PATCUT is capable of cutting 1.29 inches of copper and aluminum cable, 1113 ACSR, 5/8 inch soft steel bolts, 1/2 inch standard guy strand, and 3/8 inch EHS guy strand. It comes equipped with a high impact formed carrying case to hold the tool, a tool retention lanyard, a battery charger and two batteries. The tool operates on industry-standard 18-volt Ni/MH batteries that eliminate voltage depression or "memory" issues. What's more, the addition of a reliable mechanical ram release helps prevent depletion of battery power. The PATCUT comes with a limited warranty on the cutter, batteries, and charger.

**F. BCC1000** The BURNDY BCC1000 is a 12-V-DC battery actuated cable cutter capable of cutting up to 750 kcmil hard drawn copper cable, and up to 1000 kcmil soft drawn copper and up to 2" O.D. aluminum cable. DO NOT CUT STEEL. The BCC1000 comes with battery powered cutting tool, sealed nickel cadmium 12V battery, 120V AC single phase charger, carrying case, and wrist loop which provides added security when making cuts overhead.

### Burndy Battery Accessories

**BAT12B**

Burndy High Capacity Battery

**BAT14V**

Burndy 14.4 Volt Replacement Battery

**BBCBAT12V**

Battery for a BCC1000 Cutter

**192296-8**

Battery for BCT-500 Crimping Tool

### Huskie Battery Accessories

**G. BP-70E** The BP-70E is the standard replacement battery for all ROBO tools.

**H. BP-70EI** Smart battery is the same as the standard BP-70E with the addition of an LED display that will indicate its power capabilities for you.

**I. CH-35R** The CH-35R is the newest addition to the ROBO lineup of battery chargers. It is designed to charge the new high capacity BP-70E and BP-70EI batteries in 25 minutes.

**CH-70DCH** The CH-70DCH is a 12 volt DC charger with charge times of 1 hour for the BP-70R and BP-70I, 90 minutes for the BP-70E and BP-70EI and 3 hours for the BP-70MH. It can be plugged directly into an automotive cigarette lighter.



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## Cutting Tools

### Ridgid Cable Trimmer

#### No. 87 Cable Trimmer

Fast, accurate cable splice preparation.

Trims 85 sizes of ACSR cable from 8 AWG to 1,780,000 circular mills.

The bushing holder, cutter and handy carrying case are sold as one unit.

Case contains storage sockets for 11 bushings.

Weight 9.5 lbs.

Bushings in stock for both ACSR and TW conductors.



#### Cable Trimmer Bushings

Part#	Code	Size Conductor	Dia. Size (in)	Stranding	Part#	Code	Size Conductor	Dia. Size (in)	Stranding
HLE5760	Raven	1/0 ACSR	0.398	6/1	HLE5803	Canary	900 ACSR	1.162	54/7
HLE5761	Quail	2/0 ACSR	0.477	6/1	HLE5805	Rail	954 ACSR	1.165	45/7
HLE5762	Pigeon	3/0 ACSR	0.502	6/1	HLE5807	Tanager	1033.5 ACSR	1.186	36/1
HLE5763	Penguin	4/0 ACSR	0.563	6/1	HLE5806	Cardinal	954 ACSR	1.196	54/7
HLE5766	Partridge	266.8 ACSR	0.642	26/7	HLE5808	Ortolan	1033.5 ACSS	1.213	45/7
HLE5768	Merlin	336.4 ACSR	0.684	18/1	HLE5809	Curlew	1033.5 ACSR	1.244	54/7
HLE5769	Linnet	336.4 ACSR	0.72	26/7	HLE5810	Bluejay	1113 ACSR	1.259	45/7
HLE5770	Oriole	336.4 ACSR	0.741	30/7	HLE5811	Finch	1113 ACSR	1.293	54/19
HLE5771	Chickadee	397.5 ACSR	0.743	18/1	HLE5812	Bunting	1192.5 ACSR	1.302	45/7
HLE5772	Brant	397.5 ACSR	0.772	24/7	HLE5814.5SPL	Skylark	1272 SPL	1.316	36/1
HLE5773	Ibis	397.5 ACSR	0.783	26/7	HLE5813	Grackle	1192.5 ACSR	1.333	54/19
HLE5774	Lark	397.5 ACSR	0.806	30/7	HLE5814	Bittern	1272 ACSR	1.345	45/7
HLE5775	Pelican	477 ACSR	0.814	18/1	HLE5815	Pheasant	1272 ACSR	1.382	54/19
HLE5776	Flicker	477 ACSR	0.846	24/7	HLE5816	Dipper	1351.5 ACSR	1.386	45/7
HLE5777	Hawk	477 ACSR	0.858	26/7	HLE5817	Martin	1351.5 ACSR	1.424	54/19
HLE5779	Osprey	556.5 ACSR	0.879	18/1	HLE5818	Bobolink	1431 ACSR	1.427	45/7
HLE5780	Parakeet	556.5 ACSR	0.914	24/7	HLE5822	Lapwing	1590 ACSR	1.504	45/7
HLE5781	Dove	556.5 ACSR	0.927	26/7	HLE5821	Parrot	1510.5 ACSR	1.506	54/19
HLE5786	Swift	636 ACSR	0.93	36/1	HLE5823	Falcon	1590 ACSR	1.545	54/19
HLE5782	Eagle	556.5 ACSR	0.953	30/7	HLE5824	Chukar	1780 ACSR	1.602	84/19
HLE5783	Peacock	605 ACSR	0.953	24/7	HLE2167	Kiwi	2167 ACSR	1.737	72/7
HLE5791	-	653.9 ACSR	0.953	18/3	HLE2156	Bluebird	2156 ACSR	1.762	84/19
HLE5842	Duck	605 ACSR	0.953	54/7	HLE2312	Thrasher	2312 ACSR	1.802	76/19
HLE5788	Rook	636 ACSR	0.977	24/7	HLE.835TW	Parakeet	556.5 ACSS/TW	0.835	18/7
HLE5789	Grosbeak	636 ACSR	0.99	26/7	HLE.951	Toutle	795 ACSS/TW	0.951	17/7
HLE5785	Teal	605 ACSR	0.994	30/19	HLE954TW	Cardinal	954 ACSS/TW	1.084	20/7
HLE5790	Egret	636 ACSR	1.019	30/19	HLE959.6TW	Suwannee	959.6 ACSS/TW	1.108	22/7
HLE5793	Stilt	715.5 ACSR	1.036	24/7	HLE Yukon	Yukon	1233.6 ACSS/TW	1.245	38/19
HLE5796	Coot	795 ACSR	1.04	36/1	HLE5818TW	Bobolink	1431 ACSS/TW	1.291	36/7
HLE5794	Starling	715.5 ACSR	1.051	26/7	HLE1519TW	Deschutes	1519 ACSS/TW	1.3	34/7
HLE5797	Tern	795 ACSR	1.063	45/7	HLE1533.3TW	Rio Grande	1533 ACSS/TW	1.382	39/19
HLE5795	Redwing	715.5 ACSR	1.081	30/19	HLE1557.4TW	Potomac	1557.4 ACSS/TW	1.345	36/7
HLE5799	Condor	795 ACSR	1.093	54/7	HLE Pecos	Pecos	1622 ACSS/TW	1.424	39/19
HLE5800	Drake	795 ACSR	1.108	26/7	HLE1926-9TW	Cumberland	1926.9 ACSS/TW	1.545	42/19
HLE5801	Mallard	795 ACSR	1.14	30/19	HLE Mock	Mockingbird	2034.5 ACSR	1.681	72/7



## Compression /Hydraulic Tools

### Anderson Manual Presses

#### A. VC6-350

Versa-Crimp hydraulic compression tool crimps a wide range of connectors. Crimps "H" frame tap connectors using "O" and "D" nib/nests. 360 degree head rotation. Internal pressure relief valve.

##### Conductor Range:

#8-350 MCM AL

#8-266.8 ACSR

#4-4/0 ACSR (Full Tension) "O" die 3/0 and 4/0

#8-300 MCM Cu

#### B. VC6-FT

Versa-Crimp hydraulic compression tool with flip-top latch. Provides clear and easy removal from larger connectors and in limited spaces. 360 degree head rotation.

##### Conductor Range:

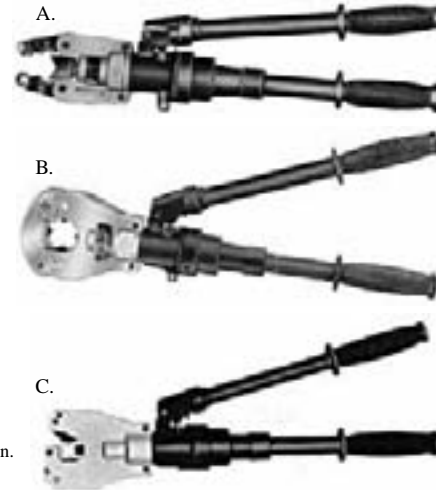
#8 Str.-750 MCM Al/Cu

#### C. VC7

Versa-Crimp hydraulic compression tool for compressing multi-stranded/rope layer copper cable in mining, marine, and industrial applications. Copper color label denotes use with copper connectors, only. 360 degree head rotation.

##### Conductor Range:

#6 Str.-500 MCM Bare Cu



### Burndy Manual Presses

#### D. MD6

Hytool hand operated compression tool installs full range of connectors (taps, splices, terminals). Full tension and non-tension. The tool has permanent "BG" (5/8) and "D3" groove jaws. The "D" groove also serves as a seat for die inserts. Installs CABLELOCK CRIMPIT and HYCRIMP tap connectors with one additional die insert W-0. Crimp force of 9,000lbs.

**Usage:** Copper, Aluminum, ACSR, Copper weld, Alumoweld, Steel, 6201, 5005, Compressed and compact conductors. Copper taps #10 sol.-2/0 Str., Aluminum, ACSR taps: #14 sol.-4/0 ACSR. Stirrups: #6 ACSR-4/0 ACSR. Overhead full tension deadend, full tension splices, non tension splices, and terminals conductor range: #10 Str.-4/0 ACSR. Code conductor connectors: #6-4/0 Str. Copper and Aluminum.

#### MD6-8

Same features as MD6 except has an "O" nose instead of a "BG" nose.

#### E. MD7

Posi-press Hytool hand operated crimper. Same features as the MD6 but with a composite polymer handle.

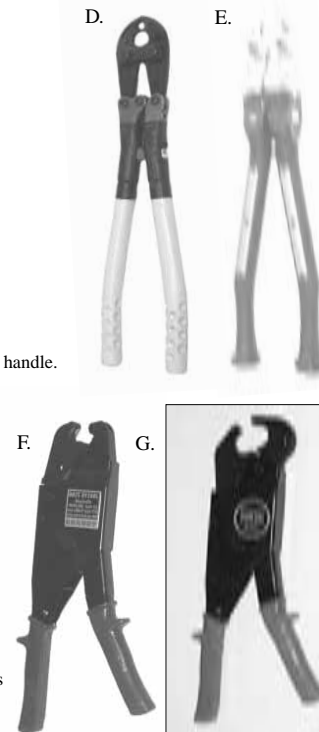
#### F. OH25

One-handed operation dieless full cycle ratchet tool. Installs service entrance splice connectors. Conductor range is #10 through 1/0. The OH25 is designed to install 5/8" INSULINK and LINKIT service entrance connectors with only one crimp per connector end. The single crimp covers the complete contact area, eliminating possible overlapping or failure to make the proper number of crimps.

For use on 5/8" service entrance sleeves, INSULINK type ES (insulated) #10-1/0 Str., LINKIT type YSU (bare) #8-1/0 Str., 5/8" neutral tension sleeves HYSPLICE types: YS-S YCS-R YDS-AT #4-1/0, AYP HYPLUG #6-1/0 Str.

#### G. OUR840

Popper Hytool, one handed operation, overhead/underground full cycle ratchet tool. Installs a range of connectors (taps, splices, terminals). Designed for low maintenance operation. With nest and indenter dies, it will install 5/8" INSULINK and LINKIT service entrance connectors with only one crimp per end. With the use of the reduced handle force "X" dies, additional splices, taps, and terminals can be properly installed. The die inserts snap into the permanent groove easily with one hand and lock securely in the tool with the spring loaded positive lock die retainer buttons. W-28K cutter die permits OUR840 tool as a cable cutter for a range of #4-4/0 ACSR.





## Compression /Hydraulic Tools

### Burndy Manual Presses Continued

**A. Y2MR #8 - #2 Copper Hydent terminals and splices tool.** Mechanical full cycle ratchet will accommodate copper compression Hydent connectors for #8 to #2 Class B or Class 1 flexible strand copper conductor. The color coded die wheel rotates to provide a proper match of the die and color coded connector. The die index is embossed on the completed connection for permanent inspectability. Emergency release mechanism allows tool to be removed from connector in case of mistaken die choice or to reposition tool.

**Usage:**

Terminals:

YAG-L-TC-LD	YAG-L-2TC-LD	YA-L
YA-LB	YA-L-TC	
YA-L-2TC	YA	YA-TC
YA-2TC Y	AV-L	YAV-FXB

Splices:

YS	YS-LB
YS-L	YSV-L

D.



A.



B.



C.



### Tooling Accessories

**B. W-BG** A double groove die set requiring only one crimp per end on service entrance sleeves and 1/2 the number of crimps on other 5/8" sleeves.

**C. W-28K** Cutter die permits use of MD6/MD7 type tools as a cable cutter. Conductor range: 4-4/0 ACSR, Aluminum or Copper.

**D. MD6-CP1** Laminated vinyl covers, a non-conductive material, are provided for the MD6/MD7 to avoid damage. Compact in size, the covers snap easily into place over the jaw edges without obstructing vision. Fits all MD6/MD7 variations except the Snub-Nose type design.

**E. PT6744** Semi-ridge neoprene cover, a non-conductive material, is provided for the MD6-6 Snub-Nose tool to avoid damage. Fits all MD6-6 Snub-Nose variations.

**F. Non Bowing Dies** - install one-piece full tension UNISPLICE sleeves on ACSR conductors without bowing.

W-687	#4 ACSR 6/1, 7/1-YDS4RL and YDS4RLY
	#2 ACSR 6/1-YDS2RL and YDS2RLY
W-702	#2 ACSR 7/1-YDSO21RL and YDSO21RLY
	1/0 ACSR-YDS25RL and YDS25RLY

**G. PT4931-1** Die Button Repair Kit

**PT4925** Canvas bag for protecting MD6/MD7 tools with or without rubber covers plus up to (9) die sets.

**H. PT4946** Compact steel die case for (12) "W" or "X" die sets.

**I. PT4952-1** Steel carrying case provides storage for the MD6 tools with or without rubber covers, plus up to (18) die sets. Fits MD6, MD6-6, MD6-14, MD6-37, MD6-38, MD7, and MD7-6.

**PT6733** Hot-line tool carrying bag. Adjustable canvas bag for storage and protection of Hot-line tools. Accommodates 48", 60", and 72" variations of the MD6 and Y35 Hot-line tools.

**J. Burndy, "W" Die Tree**

Easily stores up to 6 sets of, "W" type dies.

### Kearney Manual Press

**K. OS50** Fixed die compression tool for compressing 5/8" diameter bare and insulated SERV-ENS connectors, triplex sleeves and elbow terminating connectors. Usable on any non-tension sleeve with 5/8" outside diameter.

**OS-620** Same features as OS50 with added benefit of providing non-bow crimp.

E.



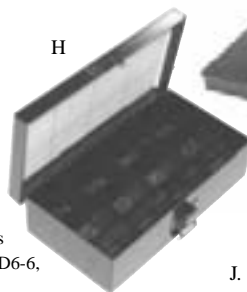
F.



G.



H.



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K.





## Compression /Hydraulic Tools

### Huskie Tools

**A. NDK Series** Manual compression tool will accept either HT-58 "W" type dies or Kearney "O" type dies. Available with the fixed "O" nose or the "BG" nose.

### (Hydraulic Presses 10-150 ton)

#### Alcoa

**B.100A** This tool has a large capacity for transmission lines. It will handle accessories up to a 3-inch outside diameter. It uses half round shell dies similar to those used with the 60A and 60AFT compressors. The 100A can be operated with any Alcoa 10,000 PSI electric or gas hydraulic pump or hydraulic booster. The 100A weighs just 95 lbs.

**C. 60A-GSC** The model 60A-GSC press is a portable 60-ton construction and maintenance tool designed to cover a full range of press accessories requiring die sizes up to and including 40AH. Capacity for all 60-ton U or shell-type dies.

#### Burndy

**D. Y750** The Y750 12 Ton Revolver Hypress tool incorporates a wide mouth (1.65") C-shaped infinitely rotating head for all compression applications. Easy tapping, splicing, and terminating of overhead lines as well as the full range of HYGROUN compression grounding system connectors, NEC cable connections, and N30-N650 Navy cable applications. Body and handles are covered with rubber for tool impact protection. Automatic 10,000 PSI "blow off" pressure relief valve. Y750-2 model has rubber covered head.

**E. Y750BH** Remote Power 12 Ton Hypress tool incorporates the same head as the Y750. Designed for remote power use.

#### Y750 and Y750BH Usage:

Tension Sleeves	#8 sol.-500 MCM Copper #8 sol.587-2 MCM Aluminum #4-556.5 MCM ASCR
Taps	#14 sol.-500 MCM Copper #8-500 MCM Aluminum #6-500 MCM Copper
Aerial Cable	#8-750 MCM Aluminum #8-750 MCM Copper #4-556 MCM ASCR
Terminals & Splices	#8-750 MCM Aluminum #8-750 MCM Copper #4-556 MCM ASCR
HYGROUN	#8-500 MCM Copper 1/2"-1" Diameter Ground Rods

**F. Y35** The Y35 12 Ton Hypress tool incorporates a C-shaped, rotatable head for overhead line work and compression grounding applications. Y35-2 model has rubber covered head, body and handles. Uses "U" type dies.

**H. Dies for 6 ton, 12 ton, 15 ton, 60 ton, and 100 ton, and 150 ton presses.**  
Square head 100 ton dies are also available. Please call.

Rentals are available for presses, pumps, and dies.



A.



B.



C.

D.



E.



F.



G.

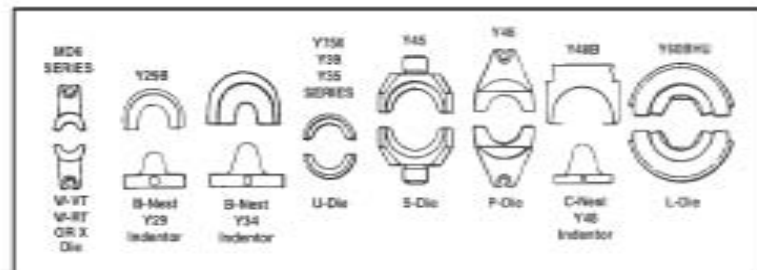


**G. Y35BH** Remote Power 12 ton Hypress tool incorporates the same head as the Y35. Designed for remote power operation.

#### Y35 and Y35BH Usage:

Connector Type:	Conductor Range:
Tension Sleeves	#8 sol.-500 MCM Copper #6 sol.-636 MCM Aluminum #4-556.5 MCM ASCR 26/7 #14-556.5 ACSR 18/1
Taps	#6 Str.-500 MCM Copper
Aerial Cable	#4 Str.-600 MCM Aluminum
Connectors	#8 Str.-750 MCM copper (400 MCM splice) #6 Str.-750 MCM Aluminum (400 MCM splice)
Code Conductors	#6-500 MCM Copper #6-250 MCM Copper
HYGROUN	1/2"-3/4"
Grounding	
Ground Rods	

H.





## Compression /Hydraulic Tools

### Burndy

**A. Y45** Remote Power 15 Ton Hypress tool has the C-shaped head design. Provides easy installation of tap and splice connectors. Operates easily on large distribution and transmission conductors. The small light-weight head design also makes this tool adaptable for work in underground trenches and manholes. PT6515 adapter is required to use "U" type dies.

**For use on:**

Tension Sleeves	#8 so.-500 MCM Copper
	#6 so.-954 MCM Aluminum
	#4-795 MCM ACSR 26/7
Taps	#14-954 MCM Aluminum ACSR 18/1
	#6-795 MCM ACSR
Aerial Cable	#6 Str.-1500 MCM Copper
Connectors	#4 Str.-1000 MCM Aluminum
HYGROUND	#6-500 MCM Copper
Ground Rods	1/2" to 1" Copper
Code Cable	#8-1500 MCM Copper
Terminal & Splices	#8-1000 MCM Aluminum
Taps	#14-1000 MCM Copper
	#14-900 MCM Aluminum

**B. Y46** Remote Power 15 Ton Hypress is lightweight, compact and versatile with installation dies for both circumferential and nest-indentor types. Available accessories include "U" die adapter, a cable cutting die for 1.2" diameter non-steel conductors, plus a lifting eye and universal hot-stick adapter for overhead line construction. Y46C - Rubber Covered.

**C. Y60BHU** 60 Ton Remote Power Hydraulic Compression Tool. Accommodates the Burndy "L" dies. Designed for copper and aluminum code cables and aerial conductor sizes through 2500 MCM, and will accommodate ACSR through size 2156 MCM 84/19.

### Hydraulic Pumps & Motors

#### Alcoa

**D. 30-G Series** High performance continuous duty hydraulic power pumps. Gasoline engine powered. 10,000 PSI. Two-stage pump for rapid ram advance. Can be operated at single or double acting mode.

**30GH-R** Gas Pump 5.5 HP Honda Engine w/ Hand Remote

**30 GB-M** Gas Pump 6 HP Briggs/Stratton Engine w/ Manual Control

**E. 10AB Electric Hydraulic Pump** The 10AB High Pressure Hydraulic Pump is extremely durable yet lightweight. It will operate under low-line voltage conditions. The two-stage pumping system of this unique, intermittent duty pump is designed for years of dependable service. The 10AB pump is ideal for running any 10,000 PSI tool up to and including the 60 ton press.

**Features:**

- 10,000 PSI high-pressure pump
- Two-stage pump for rapid advance
- 1/2 HP, 115 VSC 50/60 Hz cycle universal motor
- Carrying handle for portability
- High-pressure relief valve
- Pressure matched quick coupler supplied
- Two-position valve includes auto-retract feature
- Runs on as low as 60 VAC
- Lightweight, compact design

### Burndy

**F. EPP10** Electric/hydraulic Pump 10,000 PSI. Lightweight and durable, the EPP10 has a convenient 115 V-AC electric powered motor.

**G. EP10** Electric/hydraulic pump 10,000 PSI. Durable 1/2hp dual voltage motor 115/230 - 220/230. Roll cage allows easy moving on the job site.

**GP10** Gasoline engine driven hydraulic pump 10,000 PSI.

Portable pump with sturdy steel roll cage. Durable heavy-duty 4hp engine.

A.



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C.



D.



E.



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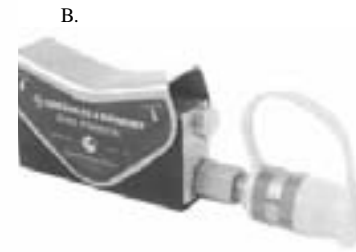
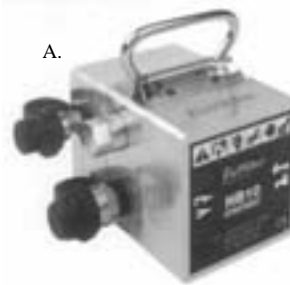


## Compression /Hydraulic Tools

### Hydraulic Pumps & Motors Fairmont

#### A. HB10 Hydraulic Intensifier

Small and compact, the HB10 operates 10,000psi remote head tools. Able to operate on either Open- or Closed-Center hydraulic systems without making any changes to the tool. Uses the proven, versatile Dynapress remote control valves and hoses sets. Supplied with pressure and return high pressure screw type couplers (ordered separately), and has a foldable carrying handle, but also can be permanently mounted.



#### B. PVA0021 High Pressure Hydraulic Hand Control Valve.

May be directly connected to the tool or used remotely with hoses.

### Hydraulic Hose & Fittings

#### C. 3VE4-120

1/4" x 10' hydraulic hose/10,000 PSI  
3VE4-180 1/4" x 15' hydraulic hose/10,000 PSI  
3VE4-300 1/4"x 25' hydraulic hose/10,000 PSI



### Hydraulic Tools Low Pressure Greenlee/Fairmont

#### D. HRD Ground Rod Driver

A deep rod opening and smooth operation ensures that the driver will not jump off of rods. Light weight, can be used with Open- and Closed-Center hydraulic systems. Available Models: HRD-58 and HRD-1.

D.



#### E. F20 Gas 20hp gas powered hydraulic power unit.

#### F. H4665A Submersible Pump

2" compact submersible pump. Compact, lightweight design with high impact strainer housing. Up to 275 gpm. Self-priming, and can run dry without damage.

#### Specifications:

System	Open- and Closed-Center
Capacity	Up to 275 gpm
Intake Port	1 5/16"
Discharge Port	2" NPTF"
Strainer	2 5/8" x 5 5/8"
Weight	9lb.
Flow Range	5-8 gpm
Operating Pressure	0-2,000 PSI

E.



F.





## Compression /Hydraulic Tools

### Hydraulic Tools Low Pressure

#### Greenlee/Fairmont

##### A. HPB55 Hydraulic Breaker

High blow energy provides maximum breaking power that can handle big demolition tasks with ease.

Integral rubber damper reduces chisel noise.

AVS models have patented spring-dampened handles that reduce vibration by 80% to 90%.

Weight: 56lb.

Hydraulic System: Open-Center

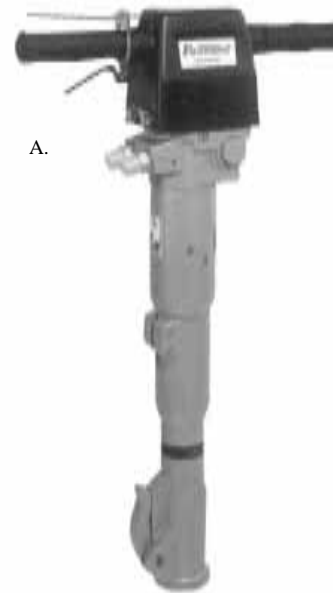
Models:

HPB55-1 1 1/8" x 6" tool shank size

HPB55-1AVS same with spring-dampened handles

HPB55-2 1" x 4 1/2" tool shank size

HPB55-2AVS same with spring-dampened handles



A.

##### HD5565-2 Breaker

Breaker 1 1/4"x6" hex tool steels with standard handles.

Accepts US standard size tool steels.

Spring-loaded front head to combat tool sticking. Only 65 lb.

##### Specifications:

Flow Range 5-9 gpm

Operating Pressure 1,000-2,000 PSI

Blows per Minute 1,500 @ 8 gpm

Length 28"

##### HD5590-2 Breaker

Breaker 1 1/4"x6" hex tool steels with standard handles.

Accepts US standard size tool steels. Provides top breaking performance with 1,100 high energy blows per minute at 8 gpm.

Spring-loaded front head to combat tool sticking. 90 lb.

##### Specifications:

Flow Range 5-9 gpm

Operating Pressure 1,000-2,000 PSI

Blows per Minute 1,100 @ 8 gpm

Length 28"

##### B. HPD R Post Driver

Sign post driver with quick change front head design.

Accommodates several different types of post adapters. 72 lbs.

##### Specifications:

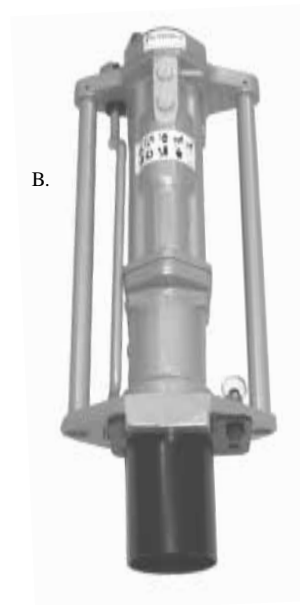
Blows per Minute 1600 @ 8 gpm

Hydraulic Flow 5 gpm

Max Input Pressure 2,000 PSI

Max Back Pressure 200 PSI

Length 24"



B.



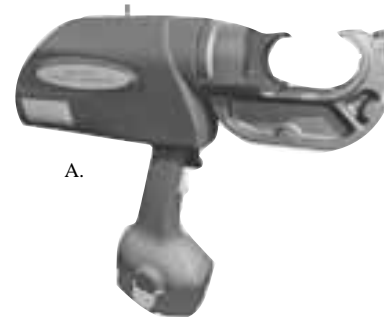
## Battery Presses

### Burndy Battery Press

#### A. PAT750-18V 12 Ton Battery Press

The BURNDY Patriot series of Battery Actuated Tool products can be operated with only one hand, making them the only true, one-handed battery powered crimping and cutting tools available in the world today.

Uses "U" type dies.



A.

### Huskie Battery Presses

#### B. REC-3610 15 Ton Battery Press

The REC-3610 is our 15 ton compression tool that is able to crimp splices and lugs to 1250 MCM aluminum and 1500 MCM copper. The REC 3610 offers a wide handle opening with finger grooves, allowing easy access for gloved work. The base of the tool is contoured for stability and incorporates finger grooves for a better grip. The tool has a latched head and its pull-pin release cannot be entirely removed from the jaw. The jaw opens wide to accept all "P" type dies used in the industry today. The PU-15 die adapter is available for use with all 12 ton "U" type dies.

##### TYPE MATERIAL

Lugs Cu #8 to 1500 MCM  
Splices Cu #8 to 1500 MCM  
Lugs Al #8 to 1250 MCM  
Splices Al #8 to 1250 MCM



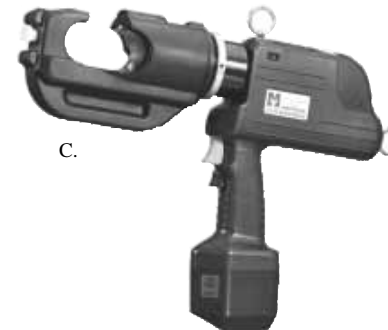
B.

#### C. REC-5510 12 Ton Battery Press

The REC-4510 was specifically designed for use in single-handed operation in overhead applications such as cable trays. This allows one hand to control the work while the other hand is free to operate the tool. It also eliminates the cumbersome hoses and larger, heavier tools traditionally used in overhead work. The Huskie REC-5510 has the same jaw opening as our REC-3510 battery operated 12-Ton compression tool. The opening is 1.65" which will accept mid-span copper and aluminum sleeves and cables up to 750 MCM. This tool accepts all "U" type dies available on the market. Portability and handling are made easier because the REC-5510 system is self contained and compact. The new rapid advance system reduces tool run time, giving you more crimp cycles per battery charge. A built-in, pre-set 10,000 psi bypass cartridge will audibly "kick out" when the 12-ton pressure is achieved

##### TYPE MATERIAL

Lugs Cu up to 750 MCM  
Splices Cu up to 750 MCM



C.

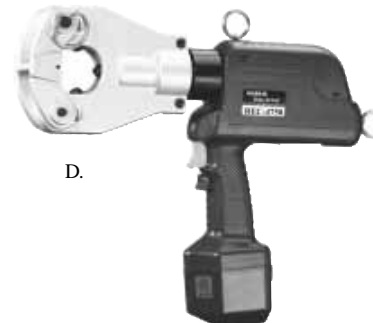
#### D. REC-4750 6.2 Ton Battery Press

The REC-4750 is a flip-top, dieless tool used to crimp cables up to 750 MCM. The flip-top latch opens to allow for easy cable positioning and removal. The dieless system is used for non-tension splices and terminations.

There is one stationary and three movable indenting nibs which close at 90 degree angles to each other so that the connector is squeezed equally at four strategic points with 6 tons of force. The top can be unlatched to accommodate larger size lugs and cables up to 750 MCM. Typical applications include in-line splicing connectors and lug and terminations.

##### TYPE MATERIAL

Lugs Cu #6 to 750 MCM  
Splices Cu #6 to 750 MCM  
Lugs Al #6 to 750 MCM  
Splices Cu #6 to 750 MCM



D.



## Battery Presses

### Huskie Battery Presses

#### A. REC-558U 6 Ton Battery Press

The Huskie REC-558U is the same design as the REC-358 with the addition of an upgraded hydraulic circuit. The new rapid advance feature allows the operator quicker compression cycles. In addition to the rapid advance feature, it also has incorporated an electronic counter that will allow a service technician to read the number of compression cycles the tool has made. Also, the new tool housing has been reinforced to improve durability during heavy field use.

A factory pre-set bypass cartridge assures a six ton compression every time.

The REC-558U accepts either "W" or "O" type dies. The D3 nest die comes standard with the tool. Always consult your connector manufacturer for proper die/connector combinations. Like the REC-358, the REC-558U will accept the optional 25CAT cutter head attachment. Quick release pins allow the operator to change between compression and cutter head in one minute, with no springs or pins to lose.

##### TYPE MATERIAL

Lugs Cu #6 to 500 MCM

Splices Cu #6 to 500 MCM

Lugs Al #6 to #4/0

Splices Al #6 to #4/0

H-Taps up to #4/0

Steel DO NOT CUT

#### B. REC-4630 6.2 Ton Battery Press

The REC-4630 is a battery operated, dieless compression tool used to compress Anderson style lugs. Six tons of compression force are achieved when the tool advances and bypasses at the predetermined pressure. Advance and retract buttons on the tool handle allows for one hand operation, freeing the other hand to maneuver the cable.

##### TYPE MATERIAL MINIMUM MAXIMUM

Lugs Cu #10 to 500 MCM

Splices Cu #10 to 500 MCM

Lugs Al #10 to 500 MCM

Splices Al #10 to 500 MCM

### Greenlee

#### C. EK410-12 Crimping Tool 12v

New breakthrough design results in an extremely compact battery-powered crimping tool with capacity to 250 kcmil (mcm) copper color-coded connectors. Also crimps 5/8 and 840 service entrance connectors. Slim profile and light weight provide for one-hand operation. Flip-open crimping head rotates 360°. Includes two batteries, battery charger, and molded carrying case.

#### D. EK425 "Gator" Crimp Tool

Slim profile and light weight permit one hand operation. Crimping jaws automatically open to signal that crimp is complete. Crimping jaws can be opened in mid cycle to adjust connector. When equipped with CJD3 crimping jaws, can be used with all industry "W" style crimping dies. When equipped with CJK crimping jaws, can be used with dies for Kearney™ Type "O" tools. Crimping jaws are PVC coated on outside edges. Carrying strap makes tool easy to carry and to hang in buckets. Interchangeable crimping jaws rotate 360 degrees. Two batteries, battery charger, and molded carrying case included. Choice of 120 volt, 12 volt, or 230 volt battery charger. Can cut up to 4/0 ACSR cable when equipped with KD6-27 cutter dies. Please specify nose type.





## Hot Line Tools

### BAT Boys

#### A. Wire Holding Tools

##### Slick Willie

Temporary conductor clamp.

### Bashlin

#### B. Disconnect Tools

##### RJL1967RCP

URD disconnect stick.

### AB Chance

#### C. Transformer Gin

Chain binder type transformer gin used for hoisting distribution transformers and apparatus up the structure. The standard base unit is for mounting on clear pole sections and the 5" extended base model allows mounting to bridge up to 4"x5" crossarms. A wheel tightener and 36" chain is part of each unit. Both models have a 2,000 lb. max rating, including hand pull force. The load should always be parallel to the gin pole.

Model	Description
C400-0090	Standard base
C400-0315	5" Extended base

**D. Hot Stick Tension Puller** The hot stick tension puller is equipped with rings so that it can be handled and operated with the Chance Grip-All clampstick or with rubber gloves. Both models feature a hook on each end that is non-swiveling for positive hotstick operation and has a spring-loaded gate which will rotate 135 degrees left or right from closed position. For operational ease the selector lever on the ratchet wrench of these two models has been made larger to accommodate hotsticks.

Model	Description	Weight
C400-0574	34.5kv, Safety hook both ends	12 lb.
C400-0575	69kv, Safety hook both ends	12 1/2 lb.

#### E. Wire Holding Stick

The Chance Epoxiglass wire holding stick is used on or around energized lines for forming, bending, and positioning jumper wires; and for holding conductors during splicing operations. The gripper, equipped with an eye so that other sticks can assist with heavy bending, will handle #6 solid copper through 1590 ACSR.

Model	Pole Dia. & Overall Length	Approx Wt.
C403-3068	1 1/4" x 6'5"	6 1/2 lb.
C403-3069	1 1/4" x 8'5"	6 3/4 lb.

#### F. Load Pickup Tools

Rated to pickup and carry 250-amp loads at 15kv, each completely assembled set consists of load-pickup tool, jumper clamp, 15kv jumper cable and cable connectors. Load-pickup tool and jumper clamp fit conductors from #6 Copper through 795 ACSR. Cannot be used to break loads because operator cannot open contacts while tool is installed on conductor.

Model	Cable Length	15kv	Cable Size	Weight
C403-1557	10ft		#2	17.75 lb.
C403-1558	12ft		#2	19.62 lb.
C403-1559	10ft		1/0	20.8 lb.
C403-1560	12ft		1/0	23.28 lb.

#### G. Temporary Cutout Tools

To provide fuse protection during live-line maintenance. Clamps onto primary conductor with a Grip-All clampstick. Bronze stud at lower end accepts clamp on temporary tap jumper. Orange 1 1/4" diameter Epoxiglass member fitted with two EPDM rubber storm skirts serves as the cutout bushing. Cutout hot parts are integral sleet shield and hooks for operation by loadbreak tool and lower trunnion of cast bronze. Fusetube should be fitted with fuselink rated no larger than 100 amps.

Model	System Class	Weight
C600-1895	15kv	6 lb.
C600-1896	27kv	9 lb.

A.



B.



C.



D.



E.



F.



G.





## Hot Line Tools

### AB Chance Grip-All Clampsticks

#### A. Grip-All Single Piece Style

The most versatile tool in a lineworker's hands, the Grip-All stick puts an easy to control "finger" on an insulated pole. Serves both overhead and underground circuits with various fittings. Commonly called a "shotgun," the operating mechanism incorporates a sliding hand grip that opens the hook to grasp a clamp eyescrew and retract it into the tool head. A thumb latch then must be depressed to release the locked hand grip so it can open the hook. While the tool head is of Lexan for close-quarter operations, the worker must maintain recommended working distance solely on the Epoxiglass pole section of the handle as the hook and its actuator are metal parts. Easy to care for, Grip-All sticks do not require field stripping to clean. All insulated parts including the operating rod are outside the main pole, readily accessible to wipe dry. CAUTION: Do not clean the plastic head with solvent.

Model	Description	Weight
C403-0291 A	1 1/4" x 4 1/2"	5 3/4 lb.
C403-0292 A	1 1/4" x 6 1/2"	6 1/2 lb.
C403-0293 A	1 1/4" x 8 1/2"	7 1/4 lb.
C403-0294 A	1 1/4" x 10 1/2"	8 lb.
C403-0295 A	1 1/4" x 12 1/2"	8 3/4 lb.

"A" universal fitting on end of Grip-All.

#### B. Grip-All Hinged Style

Ideal for troubleshooters with limited tool-storage space in their cars, this folding version operates with the same features as the one-piece style.

Model	Folded	Description	Weight
C403-0296A	3' 4"	1 1/4" x 6' 7"	8 lb.
C403-0297A	4' 4"	1 1/4" x 8' 6"	9 lb.
C403-0298A	5' 4"	1 1/4" x 10' 6"	10 lb.
C403-0299A	6' 4"	1 1/4" x 12' 6"	10 1/2 lb.
C403-0342A	7' 4"	1 1/4" x 14' 6"	11 lb.
C403-0343A	8' 4"	1 1/4" x 16' 6"	11 1/2 lb.

#### C. Grip-All Telescoping Style

Replaces several conventional clampsticks. With fewer sticks, it still permits linemen to serve their many safe-working distances and positioning needs. This can reduce the number of clampsticks required on a line truck, saving limited storage space.

Engineered interface between sections ensures that tool retracts with full control. Top section is of foam-center Epoxiglass insulated pole. Basic clampstick functions of this telescoping style are identical to the fixed length style. All controls can be manipulated while wearing gloves. Easy to dismantle, the telescoping Grip-All stick must be kept clean and dry inside and out for maximum personnel protection.

Model	Extended Lock Lengths	Retracted	LengthWeight
C403-1035	5' 6 3/4", 6' 9 1/2", 8'	5' 2 3/4"	6 lb.
C403-1036	8' 6 3/4", 10' 4 1/2", 12' 2 1/4"	8' 2 3/4"	8 lb.

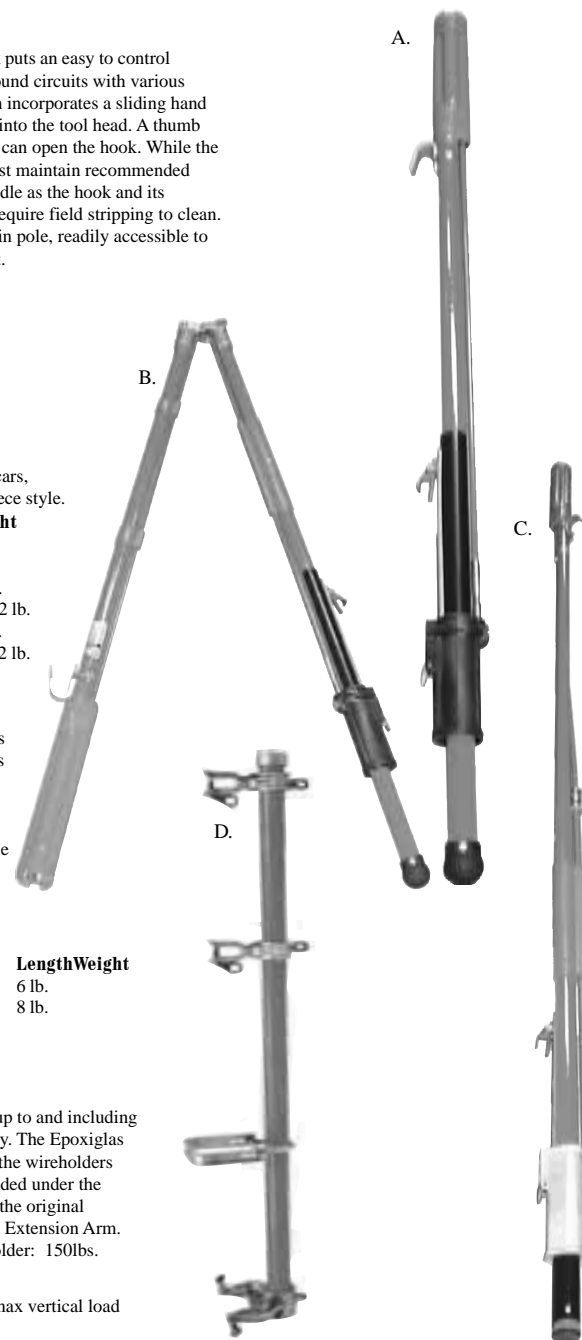
### Fiberglass Hot Arms

#### D. H4800-72 Fiberglass Hot Arm

The Epoxiglas® Extension Arm is designed for use on voltages up to and including 15 kV where reconductoring or insulator replacement is necessary. The Epoxiglas Extension Arm can be used on voltages up to 34.5 kV providing the wireholders are fitted with M4805-7 insulators. The Extension Arm is suspended under the crossarm by brackets to enable to conductor to be removed from the original crossarm and placed in the wireholder mounted on the Epoxiglas Extension Arm. Max crossarm size: 3.75" x 4.75". Max vertical load per wire holder: 150lbs.

#### C400-1310 Heavy Duty Fiberglass Hot Arm

Same as above except will fit up to 6" x 6" crossarm, and has a max vertical load per wire holder of 300lbs.





## Hot Line Tools

### AB Chance Telescoping Sticks

#### A. Telescoping Disconnect Tools

Chance Epoxiglass telescoping tools have maximum convenience for the lineman because they permit him to perform many routine jobs from ground level. The universal end fitting on the insulated top section accepts a wide variety of attachments so that the lineman can disconnect switches, replace cutout tubes and reclose, remove pole covers, prune trees and complete many other overhead tasks.

Model	Extended Length	Storage Length	Base Dia.	# of Sections	Weight
C403-1023	8ft	56"	1 1/4"	2	2 lb.
C403-1017	8-12ft	57"	1 1/2"	3	2 3/4 lb.
C403-1018	12-16ft	59"	1 11/16"	4	4 lb.
C403-1019	12 1/2-16 1/2ft	61"	1 7/8"	5	5 1/4 lb.
C403-1020	16 1/2-20 1/2ft	63"	2 1/16"	6	7 lb.
C403-1021	17 1/2-21 1/2ft	65"	2 1/4"	7	8 3/4 lb.
C403-1022	22-26-30 1/2-35ft	67"	2 1/2"	8	11 lb.

#### B. Telescoping Measuring/Disconnect Tools

Certified to OSHA dielectric requirements (Sub-part V, section 1926.951), these full-function telescoping tools do more than separate measuring sticks and disconnect tools. To measure pole heights and conductor clearances from the ground. Disconnect head supplied for operating switches and cutouts is removable. End fitting on insulated top section accepts other universal tool accessories for various tasks near energized conductors.

Model	Extended Length	Storage Length	# of Sections	Weight
C403-1021E	30ft	61"	7	8 3/4 lb.
C403-1022E	35ft	63"	8	11 lb.
C403-1739E	25ft	48"	8	9 lb.

#### Disconnect Tools Elbow Puller Tools

Facilitate removing elbow connectors from bushings of transformers and other apparatus. A special integral hook on the tool heat fits through the rubber eye of an elbow or metal hook of a bushing cap. Uses a slide-hammer mechanism to easily disengage and assist in replacing elbows.

Model	Description	Weight
C403-1822	6ft	12 lb.
C403-1850	8ft	12 1/4 lb.

#### Temporary Load Disconnect Tools

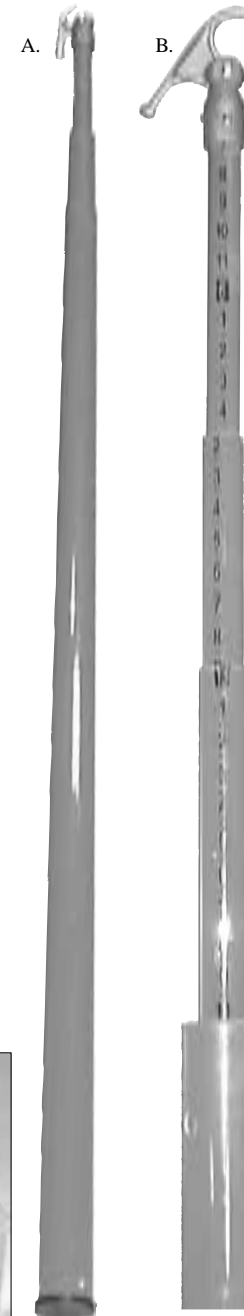
Provides a temporary means of connecting and disconnecting equipment or circuits under load conditions. Does not have a fuse and does not provide protection for fault or overcurrent conditions. Clamps onto primary conductor with a Grip-All clampstick. An arch-chute-type interrupter gives the tool its excellent loadbreak capability. To interrupt load currents, the device makes use of a stainless steel auxiliary blade within a Delrin arc chute.

Model	Description
C600-2386	8.3/15kv Temporary load disconnect tool
C600-2387	15/27kv Temporary load disconnect tool

#### C. Wet/Dry Hot Stick Tester

Simple to operate, this portable unit makes easy work of testing insulated live-line tools. Feature wet and dry modes. For testing any length fiberglass reinforced plastic (FRP) hot stick up to 3 inches in diameter.

Model	Wet/Dry Hot Stick Tester	Weight
C403-3178	115 volt	20 lb.
C403-3179	230 volt	20 lb.





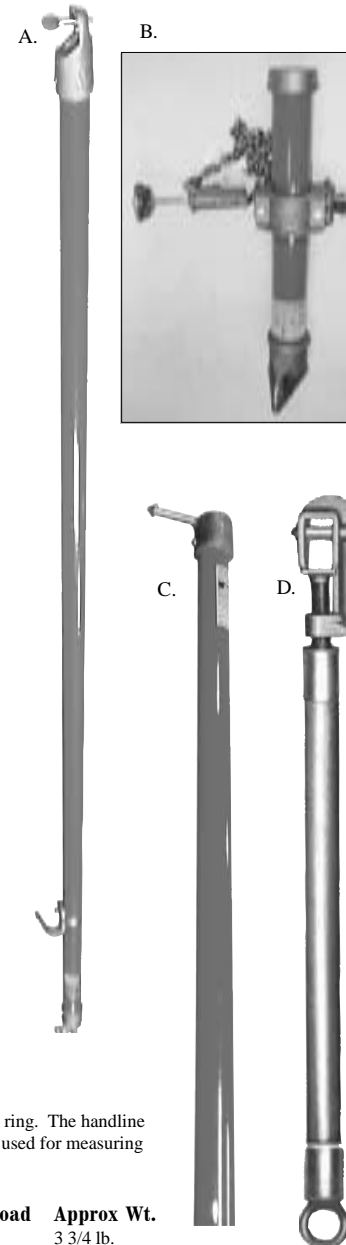
## Hot Line Tools

### AB Chance

#### A. Universal Poles

Designed for use as a hot stick handle for universal tools.  
Made of Epoxiglass and lightweight aluminum castings.

Model	Description	Pole Dia.	Overall Length	Weight
H1760	Pole with one universal head	1 1/4"	8' 2"	3 lb.
H1760-1	Pole with one universal head	1 1/4"	6' 1"	1 3/4 lb.
H1760-2	Rigid spliced pole with one universal head	1 1/4"	4' 1" plus 4"	5 lb.
H1760-3	Pole with two universal heads	1 1/4"	6' 3"	2 1/2 lb.
H1760-4	Pole with two universal heads	1 1/4"	8' 3"	3 3/4 lb.
H1760-6	Rigid spliced pole with two universal heads	1 1/4"	4' 1" plus 4' 1"	5 3/4 lb.
H1760-10	Pole with two universal heads	1 1/4"	10' 3"	4 lb.
H1760-12	Pole with two universal heads	1 1/4"	12' 3"	4 1/2 lb.
H1760-14	Pole with two universal heads	1 1/4"	14' 3"	5 lb.
H1770	Hinged pole with one universal head	1 1/4"	8' 2"	3 1/4 lb.



#### B. Gin H20

Crossarm gin. Yoke casting fits over distribution crossarms, so this crossarm gin can be used with rope blocks or handline to fit conductors from their insulators. A removable cadmium plated steel pin provides adjustment for crossarm from 3 1/2" x 4 1/2" up to 4 3/4" x 5 3/4". At a 30 degree maximum angle from vertical, 44" gin has a rated working load including pull force of 750 lb.

#### C. Disconnect Tools

Disconnect Sticks-Provide insulation for linemen in opening and closing disconnect switches and cutouts. They are also used for installing and removing open-link fuse links. Poles are made of Epoxiglass NEMA standard heads of cast bronze.

##### Switch Stick Head

Model	Pole Dia. & Length	Weight
H3046	Head only	4 oz.
H3046-11	1 1/4"x4'	1 1/4 lb.
H3046-12	1 1/4"x6'	1 1/2 lb.
H3046-13	1 1/4"x8'	2 1/4 lb.
H3046-14	1 1/4"x10'	2 3/4 lb.
H3046-17	1 1/4"x12'	3 5/8 lb.

##### Disconnect Head

H3046-2	Head only	5 oz.
H3046-22	1 1/2"x6'1"	2 1/4 lb.
H3046-23	1 1/2"x8'1"	2 13/16 lb.
H3046-24	1 1/2"x10'1"	3 7/16 lb.
H3046-15	1 1/2"x12'1"	4 lb.
H3046-16	1 1/2"x16'1"	5 5/16 lb.
H3046-18	1 1/2"x18'1"	6 lb.
H3046-20	1 1/2"x20'1"	6 9/16 lb.

#### D. Roller Link Stick

Used to spread and hold conductor aside at midspan when relocating poles.

It is applied to the conductor at the pole and pulled to position by a hand line attached to the butt ring. The handline should be secured by a temporarily installed screw anchor or other fixed object. The tool is also used for measuring conductor to ground clearance by attaching a measuring tape or length of rope to the butt ring. Poles for roller link sticks are 1 3/4.

Model	Overall Length	Pole Dia. & Length	Max Conductor Size	Max Work Load	Approx Wt.
H4714-4	58"	1 1/4"x4'	605 ACSR	1000 lb.	3 3/4 lb.
H4714-6	82"	1 1/4"x6'	605 ACSR	1000 lb.	4 1/4 lb.





## Hot Line Tools

### AB Chance

#### A. Strain Link Stick

On deadend structures and running corners, a strain link stick is used as insulation between rope blocks and a cum-a-long clamp. Conductor loads on long spans and H-frame structures are sometimes greater than can effectively be handled with wire tongs. To supplement the wire tongs, a strain link stick is attached to the conductor close to the wire tong. The strain link stick is supported from above by rope blocks, which are operated in unison with the rope blocks attached to the wire tong. Also used to support the middle conductor on H-frame structures during insulator or crossarm changes.

Model	Overall Length	Pole Dia. & Length	Jaw Opening Min-Max (in.)	Max Work Load	Approx Wt.
H4715-2	4'9"	1 1/4"x4'	.22-.75	3500 lb.	3 3/4 lb.
C400-0814	7'3"	1 1/4"x6'	.22-.75	3500 lb.	5 1/4 lb.
C400-0815	9'3"	1 1/4"x8'	.22-.75	3500 lb.	6 lb.
C400-0816	11'3"	1 1/4"x10'	.22-.75	3500 lb.	6 3/4 lb.
C400-0817	13'3"	1 1/4"x12'	.22-.75	3500 lb.	7 1/2 lb.
C400-0818	15'3"	1 1/4"x14'	.22-.75	3500 lb.	8 1/4 lb.
H4716-1	3'3"	1 1/2"x2'	.44-1.06	6500 lb.	4 3/4 lb.
H4716-2	4'9"	1 1/2"x4'	.44-1.06	6500 lb.	5 3/4 lb.
H4716-3	6'9"	1 1/2"x6'	.44-1.06	6500 lb.	6 3/4 lb.
H4716-4	8'9"	1 1/2"x8'	.44-1.06	6500 lb.	7 3/4 lb.
H4716-5	10'9"	1 1/2"x10'	.44-1.06	6500 lb.	8 3/4 lb.
H4716-6	12'9"	1 1/2"x12'	.44-1.06	6500 lb.	9 3/4 lb.
H4717	5'	1 1/2"x4'	.72-1.50	6500 lb.	9 7/8 lb.
H4717-1	7'2"	1 1/2"x6'	.72-1.50	6500 lb.	11 7/8 lb.
H4718	5'2"	1 1/2"x4'	1.00-2.50	6500 lb.	11 1/8 lb.
H4718-1	7'2"	1 1/2"x6'	1.00-2.50	6500 lb.	13 lb.
H4718-2	9'2"	1 1/2"x8'	1.00-2.50	6500 lb.	15 lb.
H4718-3	11'2"	1 1/2"x10'	1.00-2.50	6500 lb.	17 lb.
H4718-4	13'2"	1 1/2"x12'	1.00-2.50	6500 lb.	19 lb.

### Accessories

#### B. M3002-1

Flexible rubber hand guard to assist in maintaining minimum clearances between the hand and the working end of the hot line tool.

### Hastings Elbow Pullers

#### C. 13567

15kv elbow connector tool used for handling and positioning loadbreak elbows. Rotating latch feature captures and releases elbow. Made of heat treated aluminum alloy with polyurethane coating.

### Hastings Switch/Disconnect Tools

#### D. 460-8

1 1/4" diameter x 8ft fiberglass stick with switch head.

### Hastings

#### Wire Holding Tools

#### E. Multipurpose Holding Tool

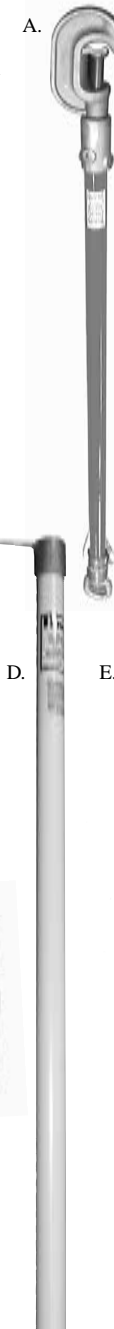
For holding slack conductors during sleeving. Provides positive control for shaping and bending jumpers and buss wires. Excellent means of applying factory formed tie wires, armor rods, and securing captured hardware during crimping operation.

#### Rigid Head

Model	Pole Dia. & Length	Conductor Size	Weight
4600	1"x4'	#6-1 1/16"	3 1/4 lb.
4601	1"x6'	#6-1 1/16"	3 3/4 lb.
4602	1"x8'	#6-1 1/16"	4 1/4 lb.

#### Adjustable Head

4603	1"x4'	#6-1 1/16"	4 lb.
4604	1"x6'	#6-1 1/16"	4 1/2 lb.
4605	1"x8'	#6-1 1/16"	5 lb.





## Hot Line Tools

### Hastings

#### Hot Stick Tester 6799

Wet/Dry hot stick tester. Utilizing 2500 volts output, the meter is calibrated to indicate the leakage values that would be present if 75kvac were applied to a 12 inch section of the fiber glass tool for the wet test and 100 kvac per foot for the dry test. Operates on 120 volts. Complete with carrying/storage case and test bar.

**Elbow Puller 5326-1** Impact elbow tool with torque handle for safe removal and installation of elbow connectors on transformers, switch gear, and other apparatus utilizing elbow connectors.

#### Strain Link Stick

Used to support conductors and isolate rope blocks and hoists from energized conductors. Used in conjunction with rope blocks or hoists, they are capable of handling heavy conductors.

Model	Pole Dia. & Length	Overall Length	Wire Size	Working Load	Weight
5708-3	1 1/4"x2'	3'	1.38"	3000 lb.	4.5 lb.
5708-4	1 1/4"x4'	5'	1.38"	3000 lb.	5.2 lb.
5709-4	1 1/2"x4'	5'	1.38"	4000 lb.	5.7 lb.
5710-2	1 1/2"x4'	5'	1.75"	4000 lb.	6.3 lb.
5710-3	1 1/2"x6'	7'	1.75"	4000 lb.	7.6 lb.
5715-6	1 1/2"x6'	7' 4"	2.50"	4000 lb.	10.5 lb.
5715-8	1 1/2"x8'	9' 4"	2.50"	4000 lb.	11.8 lb.
5720-6	2"x6'	7' 4"	2.50"	5000 lb.	12.5 lb.
5720-8	2"x8'	9' 4"	2.50"	5000 lb.	13.8 lb.

#### A. Grip All Clampstick Telescopic Shotgun

Model	Retracted Length	Operating Length	Weight	Carrying Case #
8158	5' 1"	5' 1", 6 1/2', 8'	5 3/4 lb.	C-35
8158-80	5' 1"	6 1/2', 8'	5 3/4 lb.	C-35
8158-98	5' 1"	8' 2"	5 3/4 lb.	C-35
81611	6 1/2'	6 1/2', 8', 9 1/2', 11'	6 3/4 lb.	C-8106
81611-97	6 1/2'	8', 9 1/2', 11'	6 3/4 lb.	C-8106
81-811	8'	8', 9 1/2', 11', 12 1/2'	7 1/4 lb.	C-8106
81-814	8'	8', 10', 12', 14'	7 1/4 lb.	C-8106
81-1018	9'10"	9'10", 11' 9", 13 1/2', 15 1/2', 17 1/2'	9 1/2 lb.	C-8106

#### B. Fixed Length Shotgun With External Operating Rod

Model	Length	Weight	Carrying Case #
8104	4' 6"	4.5 lb.	C-8104
8106	6' 6"	5.2 lb.	C-8106
8108	8' 6"	6.5 lb.	C-8108
8110	10' 6"	7.2 lb.	C-8110
8112	12' 6"	7.8 lb.	C-8112

#### C. Measuring Sticks

Lightweight, safe, easy storage, and ideal for fast and accurate measurements.

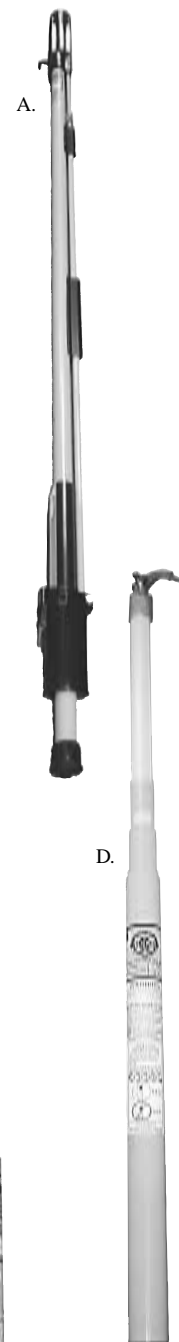
Model	Extended Length	Retracted Length	Weight	Case
E-25	25'	65 3/4"	3.2 lb.	C-35
E-30	30'	65 3/4"	4.42 lb.	C-35
E-35	35'	65 3/4"	5.86 lb.	C-35
E-40	40'	65 3/4"	7.5 lb.	C-35
E-50	50'	69 3/16"	13.2 lb.	C-40

#### D. Telescoping Tools. "TEL-O-POLE" II

"No Twist" stick for long reach, speed, convenience and safety.

A unique triangular design enables each section to lock in automatically.

Model	Extended Length	Retracted Length	Base Dia.	Weight	Case #
HV-208	8'	26"	1.75"	3 lb.	C-208
HV-212	12' 7"	58"	1.45"	3.7 lb.	C-30
HV-216	16' 9"	60"	1.61"	5 lb.	C-30
HV-220	21'	62"	1.75"	6.4 lb.	C-30
HV-225	25' 6"	64"	1.91"	8.1 lb.	C-40
HV-230	30'	66"	2.07"	10 lb.	C-40
HV-235	35'	68"	2.22"	12.1 lb.	C-40
HV-240	39' 6"	69"	2.38"	14.4 lb.	C-40





## Hot Line Tools

### Safety Line (Link Stick)

#### A. Safety Line Link Stick 12578CH

1/4" x 6' 6" fiberglass stick with cap and threaded ferrule.

**B. 12578CU** 1 1/4" x 6' 6" fiberglass stick with cap and universal ferrule.

**C. 12578HE1** 1/4" x 6' 6" fiberglass stick with toggle handle and threaded ferrule.

**12578HH** 1 1/4" x 6' 6" fiberglass stick with two threaded ferrules.

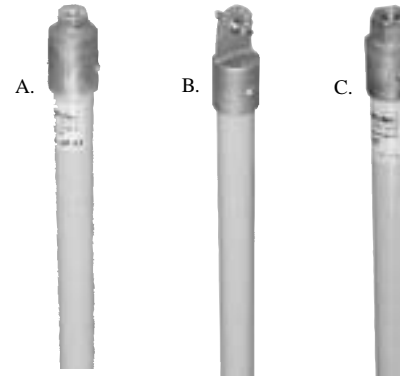
**12596CH** 1 1/4" x 8' fiberglass stick with cap and threaded ferrule.

**12596HE** 1 1/4" x 8' fiberglass stick with toggle handle and threaded ferrule.

**12596HH** 1 1/4" x 8' fiberglass stick with two threaded ferrules.

**12596UE** 1 1/4" x 8' fiberglass stick with toggle handle and universal ferrule.

**12596CU** 1 1/4" x 8' fiberglass stick with cap and universal ferrule.



### Safety Line (Mechanical Hand Stick)

Model	Description	Handle Length	Weight
<b>D. 1FGQ</b>	Quick Change	6' 6" (1.98 m)	4 lbs (1.81 kg)
1FGU	Universal	6' 6" (1.98 m)	4 lbs (1.81 kg)
101FGQ	Quick Change	8' (2.43 m)	5 lbs (2.27 kg)
101FGU	Universal	8' (2.43 m)	5 lbs (2.27 kg)

#### Heads

<b>E. 1CQ</b>	Head Only, Quick Change	1 lb (0.45 kg)
44556970	Head Only, Universal	1 lb (0.45 kg)

#### Bags

B1	Protective Bag for 1FG	2 lbs (0.91 kg)
B101	Protective Bag for 101FG	2 lbs (0.91 kg)

Other lengths available. Bag not included.

Fiber glass handle diameter: 1 1/4" (3.2 cm). The mechanical hand stick serves both as a hand and as pliers so that any serve-up or type of tie can be made or removed from the line. Very little effort is required to serve a wire taut and as perfectly as when hand and pliers are used. It is possible to roll the wire into place around the conductor, making a tight connection easily, instead of jerking and pulling.



### Safety Line (Wire Clamp Stick)

Model	Description	Handle Length	Weight
<b>F. 2FGQ</b>	Quick Change	6' 6" (1.98 m)	6 lbs (2.72 kg)
2FGU	Universal	6' 6" (1.98 m)	6 lbs (2.72 kg)
201FGQ	Quick Change	8' (2.43 m)	9 lbs (4.08 kg)
201FGU	Universal	8' (2.43 m)	9 lbs (4.08 kg)
201CFGQ	Top Hook and Quick Change	8' (2.43 m)	9 lbs (4.08 kg)

#### Heads

<b>G. 2CQ</b>	Head Only, Quick Change	3 lbs (1.36 kg)
2CU	Head Only, Universal	3 lbs (1.36 kg)
2CFGQ	Head Only, Top Hook Quick Change	3 lbs (1.36 kg)

#### Bags

B1	Protective bag for 2FG	1 lb (0.45 kg)
B101	Protective Bag for 201FG	2 lbs (0.91 kg)

Other lengths available. Bag not included.

The wire clamp stick has two fiberglass handles: the operating handle is 1" (2.5 cm) in diameter and the stationary handle is 1 1/4" (3.2 cm) in diameter. The wire clamp stick is used to hold tie wires in place, hold jumper wires while taps are being made or removed, and to hold wires when cutting and removing.





## Hot Line Tools

### Safety Line (Alligator Stick)

Model	Description	Handle Length	Weight
A. 4FGQ	Quick Change	6' 6" (1.98 m)	4 lbs (1.81 kg)
4FGU	Universal	6' 6" (1.98 m)	4 lbs (1.81 kg)
408FGQ	Quick Change	8' (2.43 m)	7 lbs (3.18 kg)
408FGU	Universal	8' (2.43 m)	7 lbs (3.18 kg)

#### Heads

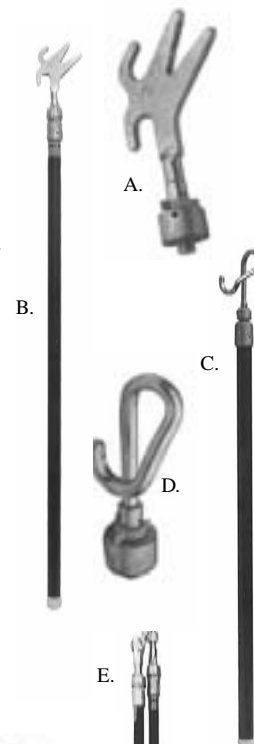
B. 4DQ	Head Only, Quick Change	1 lb (0.45 kg)
4DU	Head Only, Universal	1 lb (0.45 kg)

#### Bags

B1	Protective Bag for 4FG 2 lbs (0.91 kg)
B101	Protective Bag for 408FG 2 lbs (0.91 kg)

Other lengths available. Bag not included.

Fiberglass handle diameter: 1 1/4" (3.2 cm). Use the alligator stick to install and remove single sheave or double blocks in the top of gin poles and to install circuit breakers, line hooks and strain breakers on live lines. With the alligator stick, you can remove arm slings on cross arms, and hook blocks in arm slings and come-alongs when changing dead ends.



### Safety Line (Pigtail Stick)

Model	Description	Handle Length	Weight
C. 5FGQ	Quick Change	6' 6" 1.98 m)	6 lbs (2.72 kg)
5FGU	Universal	6' 6" (1.98 m)	6 lbs (2.72 kg)
501FGQ	Quick Change	8' (2.43 m)	7 lbs (3.18 kg)
501FGU	Universal	8' (2.43 m)	7 lbs (3.18 kg)

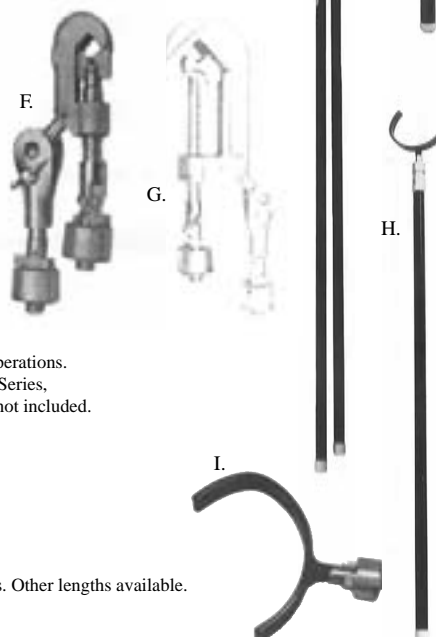
#### Heads

Model	Description	Opening Size	Weight
D. 5C2Q	Quick Change	7/8" (2.2 cm)	1 lb (0.45 kg)
5C2U	Universal	7/8" (2.2 cm)	1 lb (0.45 kg)
5C3Q	Quick Change	1 1/2" (3.8 cm)	1 lb (0.45 kg)
5C3U	Universal	1 1/2" (3.8 cm)	1 lb (0.45 kg)
5C4Q	Quick Change	2" (5.1 cm)	1 lb (0.45 kg)
5C4U	Universal	2" (5.1 cm)	1 lb (0.45 kg)

#### Bags

B1	Protective Bag for 5FG	2 lbs (0.91 kg)
B101	Protective Bag for 501FG	2 lbs (0.91 kg)

Designed to lift and guide live lines, and maintains clearances while working on poles. The pigtail stick is used to change pin type insulators and ridge pin insulators when the conductor is light enough for one person to lift. Units come standard with 7/8" (2.2 cm) hook; also available with 1 1/2" (3.8 cm) and 2" (5.1 cm) hooks. Other lengths available. Bag not included. Fiberglass handle diameter: 1 1/2" (3.8 cm).



### Safety Line (Stranded Wire Holding Stick)

Model	Description	Handle Length	Weight
E. 121FGQ	Quick Change	6' 6" 1.98 m)	6 lbs (2.72 kg)
1211FGU	Universal	8' (2.43 m)	6 lbs (2.72 kg)
1226FGQ	Quick Change	6' 6" (1.98 m)	8 lbs (3.63 kg)
1228FGQ	Quick Change	8' (2.43 m)	8 lbs (3.63 kg)

#### Heads

F. 121CQ	Head Only, Quick Change	2 lb (0.91 kg)
G. 122CQ	Head Only, Quick Change	2 lb (0.91 kg)

#### Bags

B1	Protective Bag for 121FGQ or 1226FGQ	1 lb (0.45 kg)
B101	Protective Bag for 1211FGQ or 1228FGQ	2 lbs (0.91 kg)

Has two 1" (2.5 cm) diameter fiberglass handles, holds conductors or wires during operations. The 121 Series has 3/4" (1.9 cm) wide jaws that open to 9/16" (1.4 cm), and the 122 Series, has 2" (5.1 cm) wide jaws that open to 1 1/2" (3.8 cm). Other lengths available. Bag not included.

### Safety Line (Cable Handler)

Model	Description	Length	Weight
H. 50206	Handle and head	6' 6" (1.98 m)	3 lbs (1.36 kg)
50208	Handle and head	8' (2.44 m)	4 lbs (1.81 kg)
I. 5020H	Head only		1 lb (0.45 kg)

Has a 1 1/4" (3.2 cm) fiberglass handle. Used to handle, lift, or move energized cables. Other lengths available.

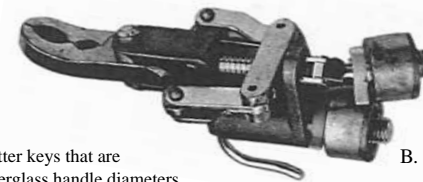


## Hot Line Tools

### Safety Line (Cotter Key Plier Stick)

Model	Description	Handle Length	Weight
<b>A.</b> 39FGQ	Quick Change	6' 6" (1.98 m)	7 lbs (3.18 kg)
391FGQ	Quick Change	8' (2.43 m)	8 lbs (3.63 kg)
<b>Head</b>			
<b>B.</b> 39CQ	Head Only, Quick Change		2 lbs (0.91 kg)
<b>Bags</b>			
B1	Protective Bag for 39FGQ		1 lb (0.45 kg)
B101	Protective Bag for 391FGQ		1 lb (0.45 kg)

Grips, holds objects in place, or removes small pieces. Excellent for inserting cotter keys that are holding automatic sleeves, and for holding conductors during live line work. Fiberglass handle diameters are 1" (2.5 cm). Other lengths available. Bag not included.



### Safety Line (Fiberglass Clampsticks "SHOTGUNS")

Model Threaded Ferrule	Model Plain Cap	Model Toggle Handle	Overall Length	Weight	Model Protective Bags	Weight
<b>C.</b> 8104S	8104C	8104	4' 6" (1.37 m)	4 1/2 lbs (2.04 kg)	B8104	1 lb (0.45 kg)
8104E	8106C	8106E	6' 6" (1.98 m)	5 lbs (2.27 kg)	B1	2 lbs (0.91 kg)
8108S	8108C	8108E*	8' 6" (2.59 m)	6 1/2 lbs (2.95 kg)	B101	2 lbs (0.91 kg)
8110S*	8110C*	8110E*	10' 6" (3.20 m)	7 lbs (3.18 kg)	B1010	2 lbs (0.91 kg)

\*shotguns 10'6" (3.20 m) must be shipped by truck freight.

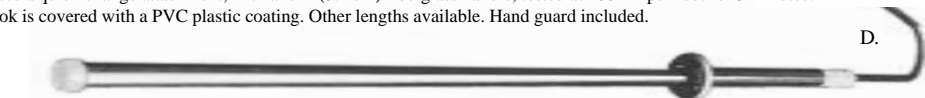
These are fixed length external rod fiberglass clampsticks which maintain maximum dielectric strength. A full open side hook provides an unobstructed view of the hook. The molded, insulated head provides a larger opening. The precision cast slide gives complete control and an extra firm grip. The hook release mechanism is easy to operate and the extended length spear provides an easy method of locating the eye of hot taps that are other-wise hard to locate. The foam filled fiberglass handles are tested at 100 kV/foot for 5 minutes. Other lengths available. Bag not included. TOGGLE MAXIMUM TORQUE RATING: 60 FOOT POUNDS.



### Safety Line (Safety Hook)

Model	Description	Handle Length	Weight
790124Q	With 12" (30.5 cm) Hook	4' (1.22 m)	4 lbs (1.81 kg)
790126Q	With 12" (30.5 cm) Hook	6' 6" (1.98 m)	5 lbs (2.27 kg)
790128Q	With 12" (30.5 cm) Hook	8' (2.44 m)	6 lbs (2.72 kg)
<b>D.</b> 7974Q	With 6" (15.2 cm) Hook	4' (1.22 m)	4 lbs (1.81 kg)
7975 Q	With 6" (15.2 cm) Hook	5' (1.52 m)	5 lbs (2.27 kg)
7976Q	With 6" (15.2 cm) Hook	6' 6" (1.98 m)	5 lbs (2.27 kg)
7978Q	With 6" (15.2 cm) Hook	8' (2.44 m)	6 lbs (2.72 kg)
<b>E.</b> 79012HQ	12" (30.5 cm) Hook Only		2 lbs (0.91 kg)
<b>F</b> 7975HQ	6" (15.2 cm) Hook Only		2 lbs (0.91 kg)
1925MC125	Optional 1 1/4" (3.2 cm) Mounting Clip		3 oz (84 g)

For use in critical accident situations to remove personnel from energized conductors. This safety hook uses a quick change attachment, with a 1/4" (3.2 cm) fiberglass handle, tested at 100 kV per foot for 5 minutes. The hook is covered with a PVC plastic coating. Other lengths available. Hand guard included.





## Hot Stick Cleaners

### American Polywater

#### A. S-1 Wipes

Hot stick cleaner and water repellent wipe. Convenient, pre-saturated, lint free wipe which cleans and applies water repellent. Evaporates quickly and does not "build up" over time. Prevents continuous water film on stick in wet weather. Removes grease, dirt, and grime. Designed for one time use and disposal. Meets IEEE maintenance recommendations.

### AB Chance

**B. C400-2364** Moisture Eater II cleaner-solvent, 1 gallon.

Used for hot-line tools, line hose, and blankets.

**C. C400-2365** Epoxiglass cleaning kit. Contains 1 gallon Moisture Eater II, 20 abrasive cleaning pads, gloss restorer kit, and 2 hot stick wiping cloths.

### AB Chance

**C400-2538** Moisture Eater II wipes. 1 box of 50 packets.

**C400-2551** Moisture Eater II cleaner-solvent, 32 oz. Spray.

#### D. C400-2568

Silicone wipes, 1 box of 50 packets. Quick and easy extra protection. Deposits thin protective coat that helps resist accumulation of dirt and other airborne contaminants.

**H1917** Epoxiglass bond patching kit. Can be used to repair small surface ruptures on Epoxiglass hot sticks, to install new ferrules on Epoxiglass poles, or to assist in replacing rungs on Epoxiglass ladders. The kit consists of a tube of hardener and a tube of resin that are mixed immediately before repairs are made. Mixing stick is included which can be used to place the bond in the area to be repaired.

**M1904** Wiping cloth for hot sticks.

### Safety Line

#### E. 2000 Silicote cloth

Used to wipe dust and dirt from fiberglass insulating handles. Leaves a thin coating on the insulating handles. Grease, insulation marks, and other foreign matter should be cleaned from handles with fiberglass cleaner before using silicote cloth.

### Hastings

#### 10-090 Silicone treated wiping cloths.

To remove light dust and dirt from stick surfaces. It is also needed after light cleaning of tool with all purpose cleaner to allow moisture to bead up on tool.

#### 10-091

Hot Stick Boom & Bucket wax for aerial lift buckets, booms, and hot sticks. A high grade caruba wax specially formulated for application to fiberglass finishes. 14oz.

#### 10-171

Complete fiberglass cleaning kit. Includes 1 gallon all purpose cleaner, 20 ultra fine non metallic pads, 1 quart of clear epoxy refinish kit, and silicone treated wiping cloths.

#### 10-100

Clear epoxy refinishing kit is a two part kit which is used to bring the tool surface back to its original finish if normal cleaning is not sufficient.

#### 10-169

1 gallon of all purpose fiberglass cleaner.

#### 10-170

Box of 20 ultra fine non metallic pads.

**10-188** Box of 50 hot stick wipes packaged in a dispenser box. Excellent for daily wiping of hot sticks prior to use. Removes contaminants such as dirt, oils, creosote, and other undesirable matter.

#### 10-197

Six pack all purpose concentrate cleaning kit. Includes six 7oz ready to mix containers of concentrate cleaner, fourteen pads, and six large adhesive backed identification labels to affix to your gallon containers after mixing. Each plastic bottle contains the correct amount of concentrate to mix with one gallon of water.

#### 10-337

Hot stick cleaning/repair materials kit. This compact kit provides the brushes and sectional fiberglass rods needed to thoroughly clean the inside of telescoping hot sticks, and internal rod shotgun sticks. Includes vinyl fold up storage case, fiberglass rods 3ft in length, and industrial type nylon bristle brushes to accommodate all inside diameters of telescoping tools.



A.



B.



C.



D.



E.



## Hot Stick Accessories

### AB Chance

**A. M3002-1** Handguards assist in maintaining minimum clearances between the hand and the working end of the hot line tool.

**B. M4455-103** Used to install cotter keys into semirecessed hardware such as found EHV, this tool will hold the keys of the position for proper insertion into clevis pins. The tool will hold the key firmly, yet readily release on engagement.

**C. M4455-12** Hammer-like action makes it extremely useful in pulling out stuck cotter keys. Release of the compression spring by a quick jerk of the pole deals the cotter key a hammer blow without disengaging the eye.

**D. M4455-18** Used for replacing cotter keys in insulator fittings or in fittings which are out of reach of linemen or near energized lines. Spring gripping jaw traps cotter key on tool, making installation easy.

**E. M4455-19** For ball and socket insulator coupling. Straight end of the tool enters the socket opening to force cotter key out. Curved end forces cotter key back into position.

**F. M4455-2** For replacing pins and bolts. The bolt head fits into a slot and is held tight by spring action. Will take bolts or pins up to 5/8" diameter. Fits EEI and NEMA insulators.

**G. M4455-23** Excellent for use at various angles where a hack saw is needed near energized conductors, comes with 10 blades.

**H. M4455-29B** Universal Clamp Stick Head for use with Eye Screw Grounding Clamps. The 6" head is for long eye screw grounding clamps.

**I. M4455-36** Use with light conductors. The clamp will hook into a cum-a-long ring. Jaw openings range from .750" to .22". Jaws have rounded edges to prevent scarring conductors. The hook is made of heat-treated aluminum alloy. Screw is Everdur.

**J. M4455-46** Made to fit standard wrench sockets. Flexibility permits use at various angles.

**K. M4455-50** For cutting or scraping insulation, cleaning conductors, etc., prior to making splices. Its use with a universal pole permits work near energized lines with safety.

**L. M4455-6** This Ratchet Wrench is used for tightening bolts in substation equipment, hardware bolts on transmission and distribution lines, etc.

**M. M4455-63** V-position of brushes gives 2-sided cleaning action. As brushes wear, they can be rotated, by loosening the anchor screws, so that unused bristles will come in contact with conductor.

**N. M4455-66** Developed for use with a pruning saw when limbs are convenient and insulation is not needed. Aluminum alloy.

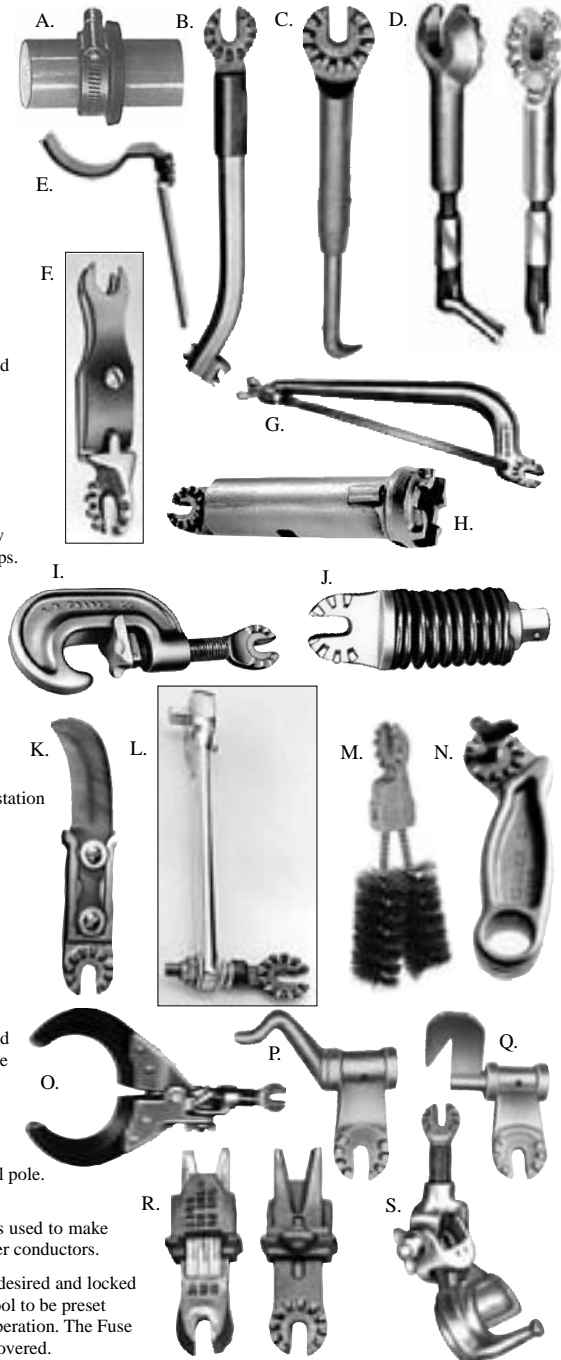
**O. M4455-67** Designed to grasp 9" and 10" disk insulators used in deadend construction. Will raise most pin type insulators up to 15 lb. Fiber jaws open and close by rotating screw.

**P. M4455-69** For placing insulator ties with looped ends. Head treated aluminum alloy body. Prong swivels freely, permitting a full turn on the tie wire without releasing contact. This minimizes the possibility of kinking or burning the wires.

**Q. M4455-70** For manipulating tie wires with or without looped ends. The heat treated aluminum alloy body design permits a swivel action. Wire is wrapped or unwrapped without turning universal pole. A V-notched carbon steel blade grasps tie wire securely.

**R. M4455-72** This aluminum gauge is small, compact, and light. It is used to make a quick, accurate check on the gauge of ACSR, solid or stranded copper conductors.

**S. M4455-77** The Chance Fuse Puller may be preset to any position desired and locked there by tightening the wing nut. A spring assembly also permits the tool to be preset without locking, so that it will align with the fuse during the pulling operation. The Fuse Puller is opened and closed by turning the pole. Its jaws are plastisol covered.





## Hot Stick Accessories

### AB Chance

**A. M4455-78** The Chance Fuse Puller may be preset to any position desired and locked there by tightening the wing nut. A spring assembly also permits the tool to be preset without locking, so that it will align with the fuse during the pulling operation. The Fuse Puller is opened and closed by turning the pole. Its jaws are plastisol covered.

**B. M4455-82** For pulling and replacing hump-type cotter keys. Particularly suitable for use on clevis pins and ball socket insulators. Easy guiding of cotter key provided by contoured slot and raised eye pin.

**C. M4455-84** When this adapter is mounted on a universal stick, the tool can be set at almost any angle to the stick. Useful for working in close places.

**D. M4455-85** Used for many operations around energized conductors such as moving conductors or moving suspension clamps and other pieces of hardware requiring a forceful blow.

**E. M4455-87** Used on heavy socket clevises...particularly where aluminum suspension and deadend clamps are attached to ball and socket insulators.

**F. M4455-88** Used on heads of 3/4" and 5/8" dia. bolts to keep bolt from turning as nut is being tightened. Extremely useful on rural ridge pin type construction—outer edges of wrench are tapered so that they can be wedged between flanges on channel and bolt head to keep bolt from turning.

**G. M4455-92** Semi-tubular shape allows linemen to clean 6" of entire circumference of conductor with two stick position.

**H. M4455-96** This Cotter Key Puller is used to partially withdraw a ball-socket cotter key so that the insulator can be removed from another insulator hanger. This puller with its thin prong is preferred for prying out standard keys deeply set on long insulator strings.

**I. M4455-98** Designed for attaching a Super Tester voltage detector to a Grip- All, a Universal Pole or a Positive- Grip Stick. With this adapter the tester can be used in any position, above or below the workman.

### Hastings

**10-082** The NEW FUSE CLAW from HASTINGS, with its innovative design for installing, removing, and changing-out cutout fuse barrels, is a MUST for all linemen, line servicemen, trouble-workers, trouble-trucks, and emergency crews!

**J. 10-115** Remote spray can holder with universal fitting.

**10-167** 6ft extension for impact wrench. Manufactured with heavy duty fiberglass to withstand the torque requirements when used with commercial grade hydraulic impact wrenches.

**10-200** 3ft extension for impact wrench. Manufactured with heavy duty fiberglass to withstand the torque requirements when used with commercial grade hydraulic impact wrenches.

**10-201** 4ft extension for impact wrench. Manufactured with heavy duty fiberglass to withstand the torque requirements when used with commercial grade hydraulic impact wrenches.

**K. 10-175** Conductor cleaning brush. Compact "U" type brush for tight clearances and easy storage in linemans pouches.

**10-176** Conductor cleaning brush with universal fitting. Stainless steel bristles to allow the cleanest connection possible.

**10-177** Replacement brush for a 10-176.

**L. 10-178** Conductor cleaning hand brush. "V" style.

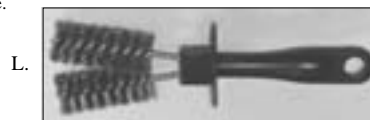
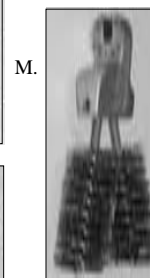
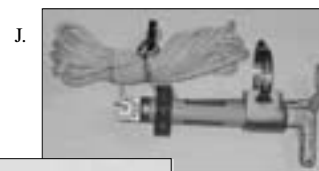
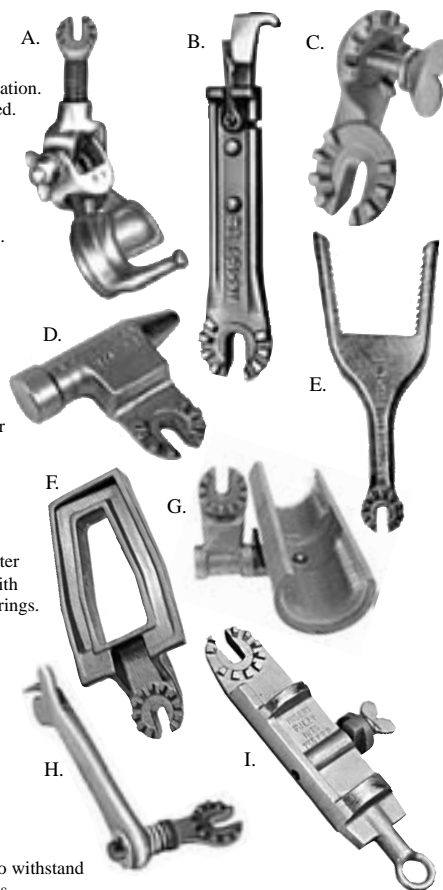
**10-179** Replacement brush for 10-178.

**M. 10-180** Conductor cleaning brush with universal fitting. "V" style.

**10-184** Compact "U" type conductor cleaning brush.

**10-186** Conductor cleaning brush with universal fitting. "U" style.

**10-187** Replacement brush for 10-186.







## Overhead Transmission

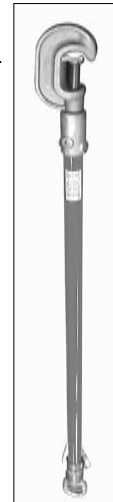
### AB Chance

#### A. Strain-Link Stick

On deadend structures and running corners, a strain link stick is used as insulation between rope blocks and a cum-a-long clamp. Also used to support the middle conductor on H-frame structures during insulator or crossarm changes.

Model	Length	Dia and Length	Working Load (lb)
H4715-2	49"	1 1/4" x 4'	3500
C400-0814	7' 3"	1 1/4" x 6'	3500
C400-0815	9' 3"	1 1/4" x 8'	3500
C400-0816	11' 3"	1 1/4" x 10'	3500
C400-0817	13' 3"	1 1/4" x 12'	3500
C400-0818	15' 3"	1 1/4" x 14'	3500
H4716-1	3' 3"	1 1/2" x 2'	6500
H4716-2	4' 9"	1 1/2" x 4'	6500
H4716-3	6' 9"	1 1/2" x 6'	6500
H4716-4	8' 9"	1 1/2" x 8'	6500
H4716-5	10' 9"	1 1/2" x 10'	6500
H4716-6	12' 9"	1 1/2" x 12'	6500
H4717	5'	1 1/2" x 4'	6500
H4717-1	7' 2"	1 1/2" x 6'	6500
H4718	5' 2"	1 1/2" x 4'	6500
H4718-1	7' 2"	1 1/2" x 6'	6500
H4718-2	9' 2"	1 1/2" x 8'	6500
H4718-3	11' 2"	1 1/2" x 10'	6500
H4718-4	13' 2"	1 1/2" x 12'	6500

A.



B.



C.



#### B. Spiral Link Stick

Used in lieu of a strain link stick in close places where the lineman cannot safely install a strain link stick by hand. A lifting eye on the head ferrule enables the lineman to guide the spiral link stick to the conductor with a hotstick.

Model	Overall Length	Dia and Length	Max Conductor Size	Working Load (lb)
H4722	27 1/2"	1 1/4" x 12"	1510.5 ACSR	3500
C400-0812	57 1/2"	1 1/4" x 42"	1510.5 ACSR	3500

D.



#### C. Roller Link Stick

Used to spread and hold conductors aside at midspan when relocating poles. It is applied to the conductor at the pole and pulled to position by a hand line attached to the butt ring. The handline should be secured by a temporarily installed screw anchor or other fixed object. Also used for measuring conductor-to-ground clearance by attaching a measuring tape or length of rope to the butt ring.

Model	Overall Length	Dia and Length	Max Conductor Size	Working Load (lb)
H4714-4	58"	1 1/4" x 4'	605 ACSR	1000
H4714-6	82"	1 1/4" x 6'	605 ACSR	1000

#### D. Adjustable Strain Poles

Help support conductors while insulators are removed and replaced. Can be used with yoke plates and hook assemblies at the conductor and structure ends of suspension, V-string or deadend insulator strings. 7500 lb max working load, 2" dia epoxiglass pole, 2ft adjustment by pole clamp in 6" increments.

Model	Description	Max Voltage	Insulated Section	Overall Length
C401-2144	6' strain pole	72.5kv	36"	7'8"
C401-2145	7' strain pole	169kv	48"	8'8"
C401-2146	8' strain pole	242kv	63"	9'11"
C401-2147	10' strain pole	302kv	84"	11'8"
C401-2215	12' strain pole	362kv	102"	13'2"
C401-2148	14' strain pole	552kv	135"	15'11"
C401-2149	18' strain pole	765kv	180"	19'8"



## Overhead Transmission

### AB Chance

#### A. Two-Pole Strain Carriers

Relieve strain from an insulator string to permit removal from energized lines. Normally used on a single string of insulators, these carriers are sometimes used for multiple strings where conductor-end hardware permits attachment. Available as complete assemblies, separate components may be ordered.

Model	Nom Pole Length	Distance Between Yokes		Weight (lb)
		Min	Max	
C401-2174	6'	49'	81'	81
C401-2175	7'	59'	93'	83
C401-2176	8'	74'	108'	85
C401-2177	10'	95'	129'	89
C401-2216	12'	113'	147'	95
C401-2178	14'	146'	180'	97
C401-2179	18'	191'	225'	105

Accessories available. Please call.

#### B. Strain Poles for Bundle Conductor Yoke Plates

Model	Description	Working Length	Max Load (lb)	Weight (lb)
H1949-113	Clevis 3.35" x1"	113"	12000	17
C400-0612	Clevis 1.56" x1"	113"	12000	14
C400-0613	Clevis 1.56" x1"	134"	12000	15

#### C. Epoxiglass Swivel Hook Ladders

Regular Duty 2" Side Rails, 14 1/2" Between Side Rails

Model	Overall Length	Weight (lb)
H4904-8	8'	42
H4904-10	10'	46
H4904-12	12'	52
H4904-14	14'	60
H4904-16	16'	68

#### Heavy Duty 2 1/2" Side Rails

14 1/2" Between Side Rails

Model	Overall Length	Weight (lb)
H4905B-8	8'	47
H4905B-10	10'	55
H4905B-12	12'	63
H4905B-14	14'	70
H4905B-16	16'	76
H4905B-18	18'	85
H4905B-20	20'	98

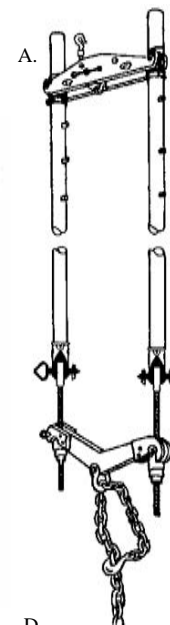
#### D. Epoxiglass Spliced Ladders

Spliced Heavy Duty 2 1/2" Side Rails

Model	Top Section Length	Weight (lb)
C402-0482	10'	44
C402-0402	12'	48
C402-0404	14'	52
C402-0407	16'	56
C402-0411	20'	64
T402-0423	10' middle section	44
Model	Bottom Section Length	Weight (lb)
C402-0418	8'	28
C402-0421	10'	32
C402-0422	12'	36

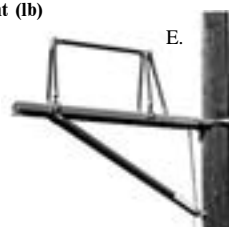
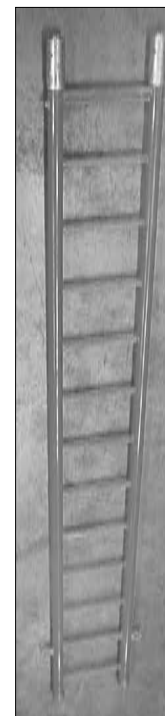
#### E. Insulated / Non-insulated

Platforms and Railings. For sizing please call.



C.

D.





## Overhead Transmission

### AB Chance

#### A.Three Rail Epoxiglass Ladder

Model	Description	Weight (lb)
C402-0119	20' straight ladder	100
C402-0512	8' bottom section	43
C402-0513	12' bottom section	52
C402-0514	12' top section	62

#### Ladder Support Attachments

Model	Description
E402-0525	Ladder support assembly for vertical tower member
E402-0568	Yoke assembly
E402-0087	Ladder support assembly for horizontal tower member
D402-0526	Vertical ladder support attachment for wood poles
E402-0099	Spreader bar
E402-0138	Ladder clamp
E402-0092	Double ladder clamp



B.



C.



### Dillon

#### B. Mechanical Dynamometers

Available sizes: 1,000 lb up to 40,000 lb. 5" or 10" faces are available.

### Huskie Tools

#### C. SH-70 Punch & Die

35 ton hydraulic steel punch. Punches up to 1/2" mild steel, aluminum and copper. 13/16" max hold diameter, will punch oval, round, square, and slotted holes. Operates from a 10,000psi pump source. Die sizes are 7/16" for 3/8" bolt, 9/16" for 1/2" bolt, 11/16" for 5/8" bolt, and 13/16" for 3/4" bolt."

D.



### Morpac Industries

#### D. Bell Lifter (Potty Chair)

E.



F.



G.



### Ridgid

#### E. 87 ACSR Cable Trimmer

Trims ACSR cable from 8 AWG to 1,780,000 circular mils. Bushing sizes from 1/0 to 1,780,000 circular mils.

### Sagging Tools

#### F. Mechanical Sagwatch

#### G. Conductor Thermometer

#### H. Sag Bracket

#### I. Sagscope

### Tinker Tools

#### J. Clipping Blocks

#### K. Deadend Blocks

### Skookum

#### L. Skookum Blocks

### Alcoa

#### M. Bolt Grips

### Klein Tools

#### N. Klein (Chicago) Grips

L.



I.



M.



N.



J.



K.





## Rubber Goods and Covers

### AB Chance Covers

#### A. C406-0002

Substation and underground barrier. Bright orange-linear polyethylene material. 4'x6'x.255" which can be cut to size with any hand or power saw used to cut wood. Forming the sheet can be accomplished with a blow torch or an oven heated to 250 degrees. Will not flash flame, and the puncture strength is 300 volts per mil.

#### B. C406-0009

25kv phase to phase cutout cover. Aids in the protection of lineman working near most open type cutouts rated at 25kv or under, but it will not fit over cutouts with linkbreak levers or similar devices. It can be placed over the cutout, and then a locking pin slips behind the cutout insulator over the hanger bracket and into a hole on the opposite side. Eyes on both the cover and locking pin allow installation with a Grip-All clampstick. Made of orange high impact ABS plastic. Several units can be nested together for convenience and space saving on the truck.

#### C. C406-0082GA

46kv phase to phase spiral conductor cover with Grip-All adapter. Easy installation from bucket or platform, in single units or linked together. The bright orange conductor cover provides extra protection with a wide air space between two thicknesses of solid insulation. The cover is made of tough, durable ABS plastic. Overall length of each cover is 53 inches. Can interlock with each other to make up a chain of guards. **Optional storage bag available.**

#### D. C406-0083

15/36.6kv phase to phase spiral conductor cover with 4ft retractable epoxiglass handle. Used for a single crossarm. Easy installation from bucket or platform, in single units or linked together. The bright orange conductor cover provides extra protection with a wide air space between two thicknesses of solid insulation. The cover is made of tough, durable ABS plastic. Overall length of each cover is 53 inches. Can interlock with each other to make up a chain of guards. Formed on the end to fit over most 15kv insulators, thus eliminating the need for an insulator cover.

**Optional storage bag available.**

#### C406-0083GA

Same as above but with Grip-All adapter fitting instead of handle.

#### E. C406-0084GA

15/36.6kv phase to phase spiral conductor cover with Grip-All adapter. For use on double crossarm. Easy installation from bucket or platform, in single units or linked together. The bright orange conductor cover provides extra protection with a wide air space between two thicknesses of solid insulation. The cover is made of tough, durable ABS plastic. Overall length of each cover is 53 inches. Can interlock with each other to make up a chain of guards. Formed on the end to fit over most 15kv insulators, thus eliminating the need for an insulator cover. Each double-crossarm unit will fit over two 15kv pin-type insulators.

**Optional storage bag available.**

#### F. C406-0164

25kv phase to phase deadend cover. Made of orange linear polyethylene and is designed to fit over a maximum of two 10 inch diameter deadend insulators. The end of the cover will mate with Chance 25kv conductor covers or rubber line hose to extend the protected area. Measures 34 inches in length, 11 inches wide, and 12 1/2 inches from the conductor to the bottom of the unit. The split unit fits easily over the conductor and insulators, yet it can be tightly clamped together using the large hot stick clamp pin, which is similar to those used in securing rubber blankets. A Grip-All adapter (included) allows the unit to be installed with a clampstick, or it can be placed into position with rubber gloves and sleeves when work practices permit.

#### G. C406-0181

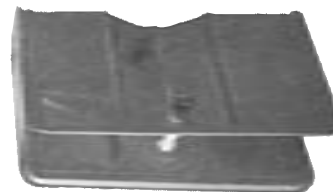
25kv phase to phase conductor cover. 5ft long with 4ft epoxiglass handle. A highly versatile system of covering up a wide variety of configurations on distribution systems. The conductor and insulator units mate together to cover pin type or post type insulator construction and also can be used with the dead-end cover. The unit virtually surrounds the hot parts and hardware to give the lineman extra protection when rubber gloving or using hot sticks. Made of high density polyethylene and are bright orange in color.

#### C406-0181GA

Same as above but with Grip-All adapter instead of handle.



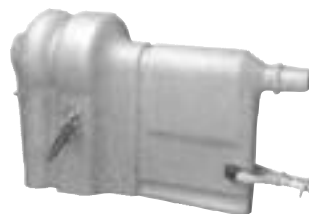
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## Rubber Goods and Covers

### AB Chance Covers

#### A. C406-0182

25kv phase to phase insulator cover. 21" long x 6" wide with Grip-All adapter. The conductor and insulator units mate together to cover pin type or post type insulator construction and also can be used with the dead-end cover. The unit virtually surrounds the hot parts and hardware to give the lineman extra protection when rubber gloving or using hotsticks. Made of high density polyethylene and are bright orange in color.

#### B. C406-0504

Crossarm cover up for class 3 26.4kv phase to phase systems. This rigid cover up fits onto wood or steel crossarm sizes up to 3 3/4"x4 3/4." The two-piece design telescopes from 31.1 to 20.9 inches, allowing easy adjustment to various lengths. With its removable insert in place, the cover gives the desired close fit on pin insulator construction. For the same type fit on post insulators, the insert simply is not used. An external hotstick adapter on the cover allows easy placement and removal by a Grip-All clampstick from most access angles.

#### C. C406-0514GA

36.6kv class 4 conductor cover. 5ft long with v-shaped bottom edge makes it easy to install. Four indented ribs along the cover's top edge provide an air gap between the conductor and the cover. Max conductor size is 666 MCM ACSR.

### D. Pole Covers

Used to help protect personnel when raising or lowering a pole between energized lines, or to cover poles when rubber glove maintenance is performed in relatively confined areas. The covers are made of high-dielectric linear polyethylene material that will not flash flame. This material will have some softening without deformation at approximately 170 degrees, and will resist brittleness at -50 degrees. Ribbed to reduce cover contact with the pole minimizing creosote contamination. A nylon button on 4 and 6 foot lengths allow the pole covers to be joined together in tandem, where longer lengths require covering. The rope handles permit personnel to easily spread the covers and snap them around the pole; rubber gloves must be worn during this procedure. Prolonged contact with an energized conductor must not be allowed.

Models	Overall Length	Weight
<b>6" Diameter Pole Covers</b>		
C406-0050	48"	6 1/2 lb.
C406-0551	72"	9 1/2 lb.
<b>9" Diameter Pole Covers</b>		
M4937-1	12"	2 1/2 lb.
M4937-2	24"	4 lb.
M4937-4	48"	9 lb.
M4937-6	72"	13 lb.
<b>12" Diameter Pole Covers</b>		
C406-0029	24"	5 1/2 lb.
C406-0030	48"	11 lb.
C406-0000	72"	16 lb.

### Kearney Covers

#### E. 131025

69kv conductor cover with 6ft fiberglass handle. Overall length is 4ft 6 inches. Maximum conductor size is 795 MCM with rods.

#### 131025-1

Same as above but with clampstick adapter instead of handle.

#### F. 131100

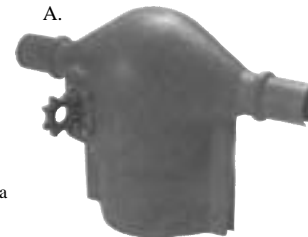
25kv conductor cover with clampstick eye. Overall length is 5ft. Maximum conductor size is 636 MCM with rods.

#### G. 13648-32

Coupler guard with 4ft fiberglass handle. Overall length is 4ft 6 inches. Maximum conductor size is 795 MCM with rods.

#### 13648-50

Same as above but with clampstick eye instead of handle.



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## Rubber Goods and Covers

### Salisbury Covers

#### A. Substation Cover Up

Used for routine maintenance where outages are difficult to get to. These covers may be applied with rubber gloves or hot sticks. Made from Type I orange ABS plastic. Not intended for permanent or semi-permanent barrier or insulating applications. Use covers to protect against accidental contact only. Not to be left installed for extended periods of time especially when in contact with both a grounded and energized object.

##### Bus Guard

Model	Dimension	Voltage Rating	Weight
1374	5.25" x 9.5" x 4.5"	34.5kv	6 lb.

Easily interlock with each other. Place one unit on the bus then the other, pulling it over the first one until the dimples interlock at the required length.

#### B. Bus "T" Guard

Model	Dimension	Voltage Rating	Weight
1375	5" x 15" x 25"	Phase to Phase	4 lb.

Interlock two or three bus guards at bust tap "T" connections and 90 degree angles. To interlock units, first position the bus guard then slide the "T" guard over the top interlocking the dimples.

#### C. Bus End Guard

Model	Dimension	Voltage Rating	Weight
9992	8.5"x12"x24"	27kv Phase to Phase	5 lb.

Cover the ends of a substation bus supported by station post insulators. The slot and insulator grip hole can be easily enlarged in the field with a sharp knife. This cover also has a guide bead for a trim fit.

#### D. Switch Jaw Guard

Insulate the energized upper switch jaw and insulator when work is being done on the switch blade, lower insulator or other de-energized equipment ahead of the open switch. These guards easily slide over the upper insulator on open substation switches and lock over the bus. Jaw guards are made from Type III UV resistant plastic.

Model	Dimension	Description	Voltage Rating	Weight
2418	8"Dx18"	Use w/switch 8" diameter	27kv	4 lb.
2424	8"Dx24"	Insulated		5 lb.
2413	13"Dx24"	Use w/switch 13" diameter		7 lb.
		Phase to Phase Pin cap insulator		

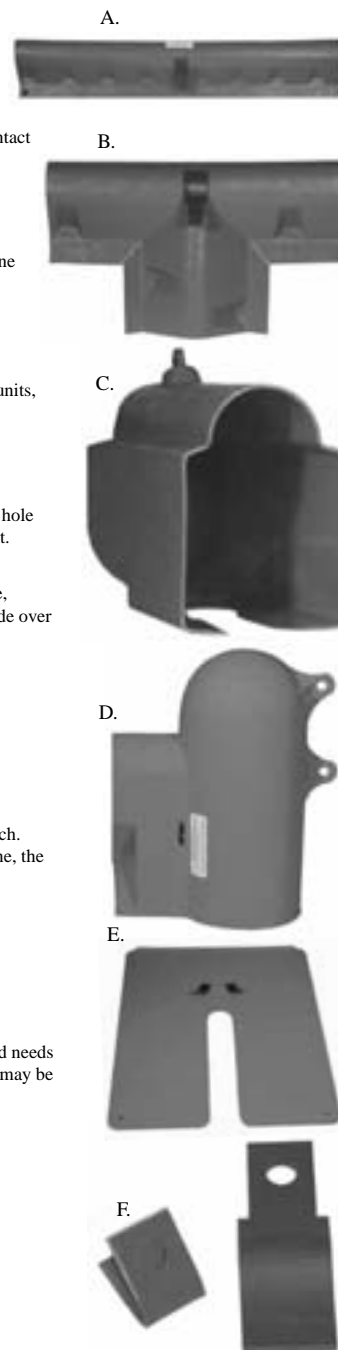
#### E. Switch Barrier

Slide between the last two skirts on the post or pin cap insulators of the substation disconnect switch. This locks the barrier in place. When switches are mounted back to back and work is needed on one, the barrier can be placed on the energized switch to form a visible, electrical and mechanical barrier. Work can then be done on the opposite switch or other de-energized equipment.

Model	Dimension	Description	Voltage Rating	Weight
1376	.125"x43"x52"	Orange Type I High Impact	35kv	12 lb.
		5" slot to center		
		ABS Plastic Phase to Phase		

#### F. 1378

Applicator eye kit is used to apply a new or extra shotgun eye where needed. If a Bus or "T" guard needs to be shortened or inverted, this kit allows field modifications to be made. Clear PVC pipe cement may be used to secure the eye. Directions are included. Two eyes per kit.





## Rubber Goods and Covers

### Salisbury Covers

#### Lightweight Conductor Covers

Ideal to cover long spans when weight is a consideration. This cover is made from orange Type I high density cross link polyethylene and has a voltage rating of 27kv. They can be applied when wearing rubber gloves or with a fiberglass stick. Available with an eye for application with shotgun sticks.

Model	Description	Grade	Weight
A. 21172	5' cover w/eye	2	4 lb.
B. 21173	5' cover w/o eye	3	3 lb.
C. 21315	5' cover w/4' fiberglass stick	1	5 lb.
21234	Adapter eye	-	1.5 lb.

#### D. Versa Guards-34.5kv 4.5'

Makes use of air as well as the dielectric strength of plastic to provide total insulating value. 7" in diameter and has a hook shaped inner lip to keep the guard in place.

Model	Description	Type	Grade	Weight
1686	ABS Eye	I	2	8.8 lb.
1687	ABS 4' Stick	I	1	10.8 lb.
1688	ABS 6' Stick	I	1	11.8 lb.
2373	PPO Eye	III	2	8.8 lb.
2377	PPO 4' Stick	III	1	10.8 lb.
2378	PPO 6' Stick	III	1	11.8 lb.
2389	Lightweight 47" PPO 4' Stick	III	1	6.1 lb.
2689	Lightweight 47" PPO Eye	III	2	8.1 lb.

#### E. Link Guards-69kv 4.5'

A voltage rating of 69kv, and has inner and outer shells that run full length to include male and female couple ends. Two guards connected provide four overlapping thicknesses of plastic plus air at a joint.

Model	Description	Type	Grade	Weight
1680	ABS Eye	I	2	10.5 lb.
1681	ABS 4' Stick	I	1	12.5 lb.
1682	ABS 6' Stick	I	1	13.5 lb.
2475	PPO Eye	III	2	10.5 lb.
2476	PPO 4' Stick	III	1	12.5 lb.
2477	PPO 6' Stick	III	1	13.5 lb.

#### F. Tee Connectors

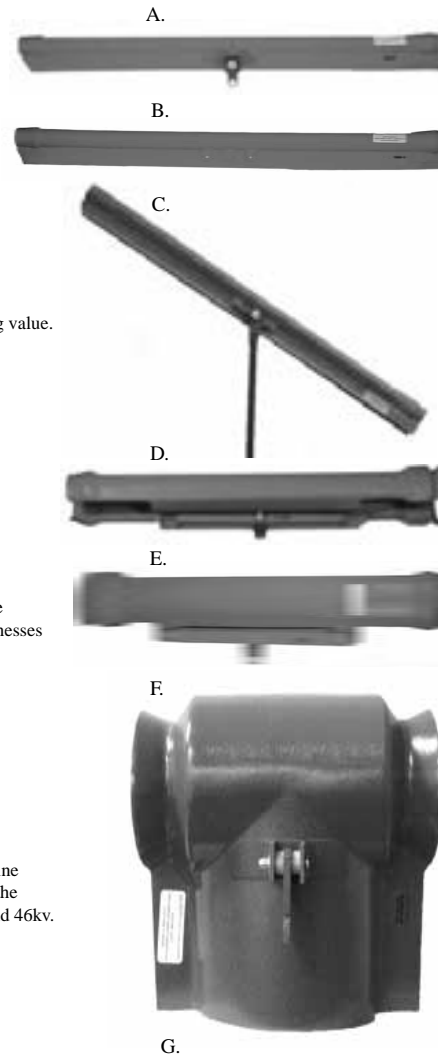
Used on horizontal and vertical posts and suspension insulator strings when plastic line guards are used on the conductor. Made from Type I, ABS plastic with eye fittings, the connector accommodates the male end of a guard. Available in two ratings: 69kv and 46kv. Accepts 34.5 kv pin insulators along with post and insulator strings.

Model	Description	Type	Grade	Weight
2224	69 kv	I	2	7.8 lb.
2884	46 kv	I	2	6 lb.

#### G. Stinger Covers

Protect against wildlife contacts between energized equipment and ground by insulating the lead wire. The stinger cover can be installed without disconnecting the lead wire from the bushing. Available in three diameters, it is easily cut in the field to the needed length. Track resistant and made from Type II Ozone and UV resistant SALCOR elastomer in a grey color. The covers are proven to provide years of reliable service either independently or when used with bushing covers.

Model	I.D. (in.)	Dimensions	Quantity	F T V kv	Weight
38-2SC	8 3/8	2ft	25pcs.	13	9 lb.
38-50SC	8 3/8	50ft	1 coil	13	9.5 lb.
38-100SC	8 3/8	100ft	1 coil	13	19 lb.
58-12SC	8 5/8	12ft	4pcs.	18	10.5 lb.
58-50SC	8 5/8	50ft	4pcs.	18	44 lb.
58-100SC	8 5/8	100ft	4pcs.	18	88 lb.
34-12SC	4 3/8	12ft	4pcs.	20.5	11 lb.
34-25SC	4 3/8	25ft	4pcs.	20.5	22 lb.





## Rubber Goods and Covers

### Salisbury Covers

#### A. 4314

Underground distribution elbow cover which covers primary elbows and spade terminals during routine maintenance. It covers up to the face plate and cable connection. This cover is made from orange Type I polyethylene plastic. The Grade 2 hot stick eye allows this cover to be applied and removed with a hot stick. This cover self locks for a secure fit in confined areas. The bead can be trimmed in the field to meet clearance requirements. The maximum exposure voltage is 27kv phase to phase. 15"x14.25". Weight 2 lb.

#### B. Cut Out Covers

Cut out cover made from Type II orange SALCOR corona resistant elastomer. Can be used for overhead cutouts as well as for underground pad-mount applications. Cutout covers comply with the current ASTM D1049 specifications.

Model	Class	Dimensions	Weight
CC24	2	24"x15"x3.5"	4 lb.
CC30	4	30"x20"x7"	10 lb.

#### C. Switch Board Matting

Permanently placed in front of switchgear, motor control centers and other high voltage apparatus to provide personal protection for workers. It is also used when tending take-up and pay out reels and when adding or replacing conductors. Made from high quality rubber, 1/4" thick and tested to 20kv to comply with ASTM D178, Class 2 specifications. The corrugated surface acts as a safety tread while reducing the possibility of metal particles becoming embedded. Switchboard matting is made in 25 yard rolls which can be custom cut to specified lengths as per customer request.

Maximum Voltage: 17,000

Model	Dimensions	Weight
M-24-2	1/4"x24"	9 lb.
M-30-2	1/4"x30"	12 lb.
M-36-2	1/4"x36"	15 lb.
M-48-2	1/4"x48"	18 lb.

#### D. MRG

Universal cover which covers pin-type insulators though 8.5" diameter and 13.8kv post-type insulators. A trim bead permits use on both 35kv and 15kv crossarm construction. Class 4 Type II. Fits line hoses 1.5" to 2.5". Fits insulators up to 8.5" diameter. 9" inside diameter x 12.25"H. 7 lb.

#### E. SC-5

Spade cover easily installed to provide temporary insulation when working in padmount transformers and other electrical apparatus. Or, when securely held in place, they may be left on spades or connectors indefinitely for front end protection. The larger SC-5 is also used to cover primary elbows as well as the larger and longer multiple lead primary and secondary fittings and lugs used in underground enclosures and vaults. Molded from flexible orange SALCOR, they have excellent aging and weathering characteristics. The opening at the top end of the slot holds the cover on to the terminal. One inch wide lips extending along the slot provide additional protection over the connection. 3" x 6" x 10". 2 lb.

#### F. Line Hose & Connectors

Type II orange SALCOR remains flexible in cold weather and is not damaged by ozone or ultraviolet rays.

Model	Class	Dimensions I.D.xLength (in.)	Weight
<b>SALCOR Straight Line Hose</b>			
OR125-45	2	1.25"x4.5"	6 lb.
OR125-6	2	1.25"x6"	7.5 lb.
OR150-6	3	1.5"x6"	9.5 lb.
<b>SALCOR Connector End Line Hose</b>			
OR100-6C	2	1"x6"	6.5 lb.
OR125-45C	2	1.25"x4.5"	6.5 lb.
OR125-6C	2	1.25"x6"	9 lb.
OR150-45C	3	1.5"x4.5"	8 lb.
OR150-6C	3	1.5"x6"	9 lb.

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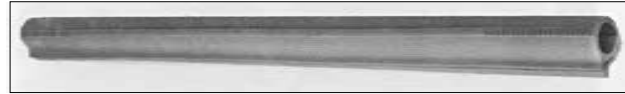


## Rubber Goods and Covers

### AB Chance Hose

#### A. Short Lip Flexible Line Hose

Much lighter than other flexible dielectric cover-ups. Helps protect workers from accidental contact with conductors. In accordance with ASTM D 1050-90, Chance ozone/corona resistant thermoplastic elastomer offers excellent performance properties. It does not absorb water. Serrated external ribs permit coupler to engage grooves inside long arm on flexible hoods made by others. Resilient lips overlap to surround conductor. Parallel grooves inside coupler match and grip the 20 serrations in outside ribs. All serrated sections measure 5' long. Coupler overlaps 6" onto plain end. Interchangeable with other flexible cover up brands. Also engages Chance rigid type insulator hoods, deadend covers, and lineguards (rated for 25kv) phase to phase.



Orange Color - Style A - Plain, Both Ends			Orange Color - Style B - Coupler, One End		
Model	Length	Weight	Model	Length	Weight
1 1/4" Inside Diameter - Max Use Phase to Phase: 17kv - Class 2, Proof Tested at 20kv AC rms					
C406-0294	3ft.	2.27lb.	C406-0304	3ft.	3.17lb.
C406-0295	4 1/2ft.	3.41lb.	C406-0305	4 1/2ft.	4.31lb.
C406-0296	6ft.	4.55lb.	C406-0306	6ft.	5.44lb.
1 1/2" Inside Diameter - Max Use Phase to Phase: 26.5kv - Class 3, Proof Tested at 30kv AC rms					
C406-0297	3ft.	3.11lb.	C406-0307	3ft.	4.09lb.
C406-0298	4 1/2ft.	4.66lb.	C406-0308	4 1/2ft.	5.64lb.
C406-0299	6ft.	6.22lb.	C406-0309	6ft.	7.2lb.

#### B. C406-0416

Ball stud cover fits only the C600-2102 or T600-2364 ball studs. Same material as the Chance line hose, nonconductive cover may help prevent flashover on ball studs installed in enclosed switchgear, switchyards or substations. Snap fit keeps cover in place. The 5/8" loop at top permits hot line tools to "pop" it on and off. Chance silicone lubricant C400-2320 or C417-0287 may ease installation and removal.

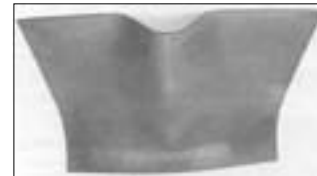
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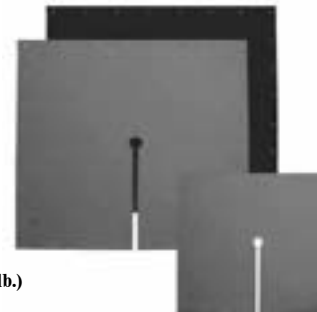
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### AB Chance Blankets

#### C. Arc Suppression Blankets

(Not electrically insulated) For shields against electrical fault blasts. Two synthetic fabrics are combined in the ArcSafe suppression blanket from Workrite. Fabrics are aramid-fiber types. The inner layer is Kevlar and the outer is NOMEX III. Easy to maneuver in confined spaces. Tested successfully at 42,000 amps fault current.

Model	Size	Weight
C406-0452	4ftx5ft	4lb.
C406-0453	4ftx8ft	6 1/2lb.

#### D. C406-0346

Class 4 Type II 36kv solid blanket. Proof tested at 40kv AC rms. 36"x36". Weight 8 1/4lb.

### Salisbury Blankets

#### E. Insulating Blankets

Slotted style insulating blankets are designed for increased versatility and flexibility in special cover-up situations. Use for covering ridge pins, cross arms with insulators or any place a wire, pin or projection interferes with proper placement of other cover-up devices.

Model	Eyelets	ASTM Class/Proof Test Volt	Type/Material	Size (in.)	Color	Weight (lb.)
14	28	2/20kv	I/Natural	22x22	Black	2.5
15	28	4/40kv	II/SALCOR	22x22	Orange	2.5
15-1	28	4/40kv	II/SALCOR	22x22	Black	2.5
1100	28	2/20kv	I/Natural	36x36	Black	7
1300	28	4/40kv	II/SALCOR	36x36	Orange	7
1301	28	4/40kv	II/SALCOR	36x36	Black	7
1302	2" hole	4/40kv	II/SALCOR	36x36	Orange	7
1304	4.5" hole	4/40kv	II/SALCOR	36x36	Orange	7
1300-V	Zip style	4/40kv	II/SALCOR	36x36	Orange	7
1400-E	6	2/20kv	I/Natural	46x46	Black	12
1800-E	10	4/40kv	II/SALCOR	46x46	Orange	11



## Rubber Goods and Covers

### Salisbury Insulating Blankets

**A. Eyelet style** insulating blankets were designed to be easily secured in place by using blanket pins, snap buttons, or ty-straps. Compliant with ASTM D1048 specifications, are flexible and feature a reinforced beaded edge and eyelets for added strength and tear-resistance.

Model	Eyelets	ASTM Class	Type/Material	Size (in.)	Color	Weight (lb.)
12	28	2/20kv	I/Natural	22x22	Black	3
13	28	4/40kv	II/SALCOR	22x22	Orange	3
13-10	10	4/40kv	II/SALCOR	22x22	Orange	3
400-E	6	2/20kv	I/Natural	27x36	Black	6
1000-E	6	4/40kv	II/SALCOR	27x36	Orange	6
300-E	6	2/20kv	I/Natural	36x36	Black	8
900-E	6	4/40kv	II/SALCOR	36x36	Orange	8
1900-E	6	4/40kv	II/SALCOR	46x46	Orange	12

**B. Blanket Canisters** Molded in bright orange, hi-impact polyethylene protects insulating blankets when not in use. A tight fitting cap is secured to the canister with polypropylene rope. Available sizes range from 1-2 blankets to 1-6 blankets.

### Kunz Gloves

**C. Leather Protectors** Available sizes 7-12 including half sizes.

Cream colored cowhide gloves are flexible and long wearing. The goatskin gloves are lightweight and flexible offering the best dexterity.

Overall Length	Cream Cowhide	Pearl Goatskin
11"	1050-2	1200-2
12"	1050-3	1200-3
13"	1050-4	1200-4
14"	1050-5	1200-5
15"	1050-6	1200-6
16"	1050-7	1200-7

(For mitten type, add suffix 1F - Finger Mitten, SP - Shirred Back, PB - Plain Back, BC - Bell Cuff)

Example 1050-3 1FBC

\*Consult ASTM F496 Table 4 for minimum distance between gauntlet and cuff requirements.

### D. Low-Voltage Protectors Class 0 and 00.

Specially designed and manufactured to current ASTM F696 specifications as mechanical protection for 11" or 14" low voltage class 0 or 00 rubber insulating gloves described by ASTM D120. Allow flexibility and dexterity required for secondary work operations. Made from pearl-colored goatskin grain leather and available with shirred elastic back or adjustable pull strap.

Class	Elastic Back	Overall Length
0	999	10"
0	910	10"
0	913	13"

### Salisbury Gloves

**Leather Protectors** Should always be worn over Rubber Insulating Gloves to provide the needed mechanical protection against cuts, abrasions, and punctures. All Salisbury protectors are steamed pressed on curved hand forms to insure proper fit over Rubber Gloves. Made from top grade leather, all are sewn with heavy duty nylon thread in the "gunn cut" inseam construction pattern. Comes with a non-metallic buckle on the pull strap and an extra wide leather reinforcement over the thumb seam. Sizes 8 through 12 including half sizes.

For Class 00 Rubber Insulating Gloves - Not for use with Class 0 or higher

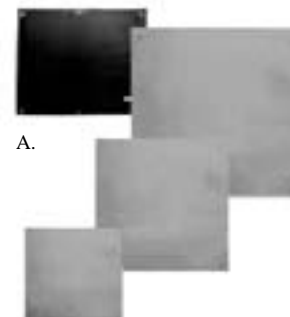
Model	Description	Length (in.)
<b>E.</b> 110G	Elastic Back	10
<b>F.</b> 100S	Pull Strap	10

For Low Voltage Rubber Gloves

<b>G.</b> 210-G	Elastic Back	11 or 14
<b>H.</b> 200-S	Pull Strap	11 or 14

Orange Color SALCOR Cuffs

<b>I.</b> 156-4	4" Straight Cuff	12
156-6	6" Straight Cuff	14
156-7	7" Contour Cuff	15



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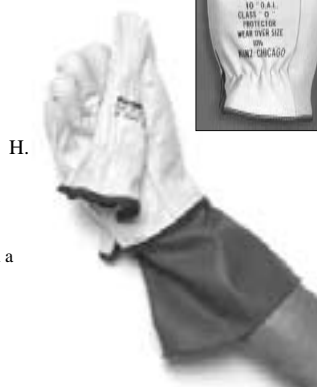


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## Rubber Goods and Covers

### Salisbury Gloves

#### A. Rubber Insulated Gloves

Available from 8 through 12 including half sizes. Meeting and exceeding the ASTM D120 specifications, Salisbury rubber insulating gloves are manufactured by dipping porcelain forms into a tank of liquified rubber. The thin layer of rubber which results is allowed to dry and the process is repeated until the required thickness is reached. To determine glove size, measure the circumference of the hand between the thumb and index finger and add one inch. Allow for additional room if fabric glove liners are to be worn, especially with thermal liners.

Glove Length	Class	Color	Size
11	0	BL or R	8, 8H, 9, 9H, 10, 10H, 11, 11H, 12
14	0	BL or R	Same

R= Red Type I Natural Rubber BL= Blue Type II SALCOR.

Example 11-00BL-8 "Class 00 Gloves"

B. Proof Test kv	Glove Length	Color	Size
5	11	Y, B, or R	8, 8H, 9, 9H, 10, 10H, 11, 11H, 12
5	14	Y, B, or R	Same

R= Red Y= Yellow B= Black

Example 5-11Y8 "Class 0 Gloves"

C. Proof Test kv	Glove Length	Color	Size
10	10,14, 16, or 18	Y, R, B, YB, or RB	8, 8H, 9, 9H, 10, 10H, 11, 11H, 12
20	4, 16, or 18	Y, R, B, YB, or RB	Same
30	14, 16, or 18	Y, R, B, YB, or RB	Same
40*	14, 16, or 18	Y, R, B, YB, or RB	10-12 Only

B= Black Y= Yellow R= Red YB= Y inside, B out RB= R inside, B out

Example 10-16Y10H "Class 1, 2, 3, 4 Gloves"

A "Straight" cuff is standard on 14" and 16" gloves. For 18", gloves are either "Straight" or "Contour" cuff is available. A "Contour" cuff prevents bunching or binding at the elbow when the arm is bent. Designate SC for "Straight" or CC for "Contour". A "Bell" cuff accommodates heavier winter clothing, is available for Class 1 through 4 gloves. "Bell" cuffs are not available in sizes 8 or 8.5H.

#### D. Liner Gloves

Reduce the discomfort of wearing Rubber Insulated Gloves in all seasons. For year round use, liners provide warmth in cold weather, while they absorb perspiration in the warm months. Many styles and fabrics are available with either a straight or knit wrist.

Model	Description	Wrist Style	Length (in.)
L10	Military style, cotton, inset thumb	Straight	10
64-14	Military style, cotton, inset thumb	Straight	14
75	Jersey style, fleece lined, inset thumb	Straight	10
85	Jersey style, fleece lined, on-finger mitten	Straight	11
95K	Jersey style, fleece lined	Knit	13
301	Wool liner	Straight	11
401K	Thermal, cotton waffle pattern	Knit	10

### Salisbury Sleeves

#### E. Insulating Sleeves

Extend coverage of the arm from the cuff of the rubber insulating gloves to the shoulder fully protecting these areas from accidental contact with energized conductors and equipment. Meet the required ASTM D1051 and offer the same high level of quality and protection. Dipped and molded type sleeves are manufactured.

Breakdown for Dipped Sleeves - Available in Extra-Curved, Curved, and Straight cuff styles

Voltage Class	Size	Color
D1	R, L, or XL	Y= Yellow R= Red B= Black YB= Y inside, B out RB= R inside, B out
D2	R, L, or XL	Same
D3	R, L, or XL	Same
D4	R, L, or XL	Same

Example D2-L-YB





## Rubber Goods and Covers

### Salisbury Sleeves

#### A. Insulating Sleeves

Extend coverage of the arm from the cuff of the rubber insulating gloves to the shoulder fully protecting these areas from accidental contact with energized conductors and equipment. Meet the required ASTM D1051 and offer the same high level of quality and protection. Dipped and molded type sleeves are manufactured.

Available in Extra-Curved, Curved, and Straight cuff styles.

Voltage Class	Size	Color
D1	R, L, or XL	Y= Yellow R= Red B= Black YB= Y inside, B out RB= R inside, B out
D2	R, L, or XL	Same
D3	R, L, or XL	Same
D4	R, L, or XL	Same

\*Add suffix "-ST" to order straight cuff or "-EC" to order extra-curved cuff.

**Example D2-L-YB**

#### B. Breakdown for Molded Type I Sleeves

Voltage Class	Size	Color
1	R or L	B
2	R, L or XL	B, Y
3	R or L	Y
4	R or L	M

R= Regular L= Large XL= Extra Large B= Black

Y= Yellow M= Maroon

**Example 2-L-B**

#### C. Breakdown for Molded Type II Sleeves

Voltage Class	Size	Color
1	R or L	BS or OS
2	R, L or XL	BS or OS

R= Regular L= Large XL= Extra Large

BS= Black SALCOR OS= Orange SALCOR

**Example 2-L-OS**

#### D. Salisbury Accessories

10-4 Ten-Four glove dust is a cooling frictionless powder that absorbs moisture and perspiration when wearing rubber gloves. Provides extra comfort while preventing gloves from getting sticky. Available in 6 oz and 4 quart sizes.

#### E. 21

Blanket clamp pin made of nylon with pin boots. Holds insulating blankets in place. Springs are used for tension while extra holes in the body of pin are used to grip conductors and prevent line hose from sliding.

#### F. B-22

Two-piece sleeve button. 4 sets required per sleeve.

#### G. MB-6

Magnetic blanket button designed for use in eyelets of insulating blankets when covering energized portions in hard-to-cover areas like pad mounts, cubicles, switchboards, and substations. Four permanent floating magnets are mounted between nickel plated steel plates. May be applied manually, wearing rubber gloves, or with a shot-gun stick.

A.

B. C.

D.

E.

F.

G.



## Meters and Testers

### AB Chance Testers

**A. C403-0457 Phasing Tester** Easily determine phase relationships, these Chance Phasing Testers read approximate voltage (line-to-line or line-to-ground) on transmission circuits. The testers consist of two high-impedance components encased in fiberglass poles, each with an end fitting threaded for interchangeable hook probes. A 22-foot-long insulated flexible cable from the voltmeter stores on a reel on the other pole. Two complete kits offer a choice of voltage ranges for specific system applications. Each kit includes a pair of 11/4"-diameter insulated handles for proper working clearances. Individual items listed in each kit's bill of materials may be ordered separately by reference numbers given.

**B. C403-0838 Phasing Voltmeter Tester** Allows line personnel to determine, in the field, the operating condition of the Chance instruments named above. The tester uses each instrument's own meter to display its operating condition. The tester plugs into the jack on the instrument and meter readings are noted when the tester's clip is contacted to each of the instrument's two terminals and the tester's polarity switch is in both of its positions. If all four readings are within two units, the instrument is in proper working order. Pulling the plug from the jack automatically disconnects the tester's battery. The 9-volt battery, furnished, usually lasts one year and is easily replaced. The tester's durable and compact fiberglass housing will withstand the abuse of field applications.

### C. C403-0979 Multi-Range Voltage Detectors

1 to 40kv lines. To confirm that a line is de-energized prior to performing maintenance on it, the Multi-Range Voltage Detector (MRVD) presents field practicality. Actually a field intensity meter, the MRVD is calibrated to read approximate line-to-line voltage when connected to any phase conductor. It responds to the magnitude of the field gradient between its end probe and floating electrode (at the universal hotstick-attachment fitting). If the universal fitting is close to a ground, another phase or another voltage source, the reading should tend to be high; if it's close to a jumper or equipment of the same phase, the reading should be low. The MRVD gives metered readout capable of distinguishing actual line voltage from static or feedover from an adjacent line. Readings from an MRVD can be compared with numerical certainty rather than the subjective judgments associated with "fuzz-sticking" or "glow-detecting." Since the MRVD is not a voltmeter, no specific accuracy is claimed by the manufacturer or can be assumed by the user. Available in modes for various ranges, the MRVD must be mounted on proper length hotstick for the voltage class involved. Complete instructions are furnished with easy, illustrated step-by-step procedures. Internal circuit and pushbutton permit check before and after each use to confirm operational condition of instrument and battery.

**D. C403-1029 16 to 161kv lines.**

**E. C403-1140 69 to 600kv lines.**

### F. C403-2794 Digital Voltage Detectors

For 1 to 40kv lines. As tools for linework, these two Digital Voltage Indicators (DVI) apply to most system voltages. For overhead applications, the hooked probe hangs directly onto the conductor or apparatus. For such uses as confirming a "dead" condition before placing temporary grounds for de-energized maintenance, each unit provides an easy, yet reliable, means to determine if a line is: De-energized, carrying less than normal system voltage from any source or induced charges from an adjacent live circuit, energized at full system voltage. Simply by selecting "Peak Hold," the DVI will retain the display of its approximate highest reading for 10-15 seconds. A built-in self-test function allows for a quick check of the meter before and after each use.

A.



C.



B.



D.



E.



F.





## Meters and Testers

### AB Chance Testers

#### A. C403-3402 Digital Phasing Tester 16kv

Large direct-reading display of Chance Digital Phasing Testers easily determine phase relationships and approximate voltage, line-to-line or line-to-ground. Each tester consists of two fiberglass poles with end fittings threaded for interchangeable probes. The probe fittings couple with a high-impedance component encased in each pole. To complete the test circuit, a 22-foot length of insulated flexible cable stores on the reel affixed to one pole and connects to the electronic display module on the other pole. Simple to operate, the tester attaches to two 6-foot Epoxiglas® insulating universal handles (included in each kit for proper working clearances). Then the probes can be brought into contact with the conductors appropriate for the tester to display phase-to-phase or phase-to-ground voltage. Push-button controls permit easy selection of options. When not in use, the unit's Sleep mode automatically conserves the battery.

#### B. H1876-1 Phasing Tester 16kv

Chance Phasing Testers easily determine phase relationships and approximate voltage, line-to-line or line-to-ground. Each tester consists of two fiberglass poles with end fittings threaded for interchangeable probes. The probe fittings couple with a high-impedance component encased in each pole. To complete the test circuit, a 22-foot length of insulated flexible cable stores on the reel affixed to one pole and connects to the voltmeter on the other pole. Simple to operate, the probes can be brought into contact with the conductors appropriate for the meter to read phase-to-phase or phase-to-ground voltage.

#### C. H1876-2 Pair of Extension Resistors for up to 80 kv (43" long)

#### D. H1876-4 Phasing Tester 40kv Pair of Extension Resistors for up to 48 kv (25" long)

**E. H1876-7 Phasing Tester 16kv** Chance Phasing Testers easily determine phase relationships and approximate voltage, line-to-line or line-to-ground. Each tester consists of two fiberglass poles with end fittings threaded for interchangeable probes. The probe fittings couple with a high-impedance component encased in each pole. To complete the test circuit, a 22-foot length of insulated flexible cable stores on the reel affixed to one pole and connects to the voltmeter on the other pole. Simple to operate, the probes can be brought into contact with the conductors appropriate for the meter to read phase-to-phase or phase-to-ground voltage.

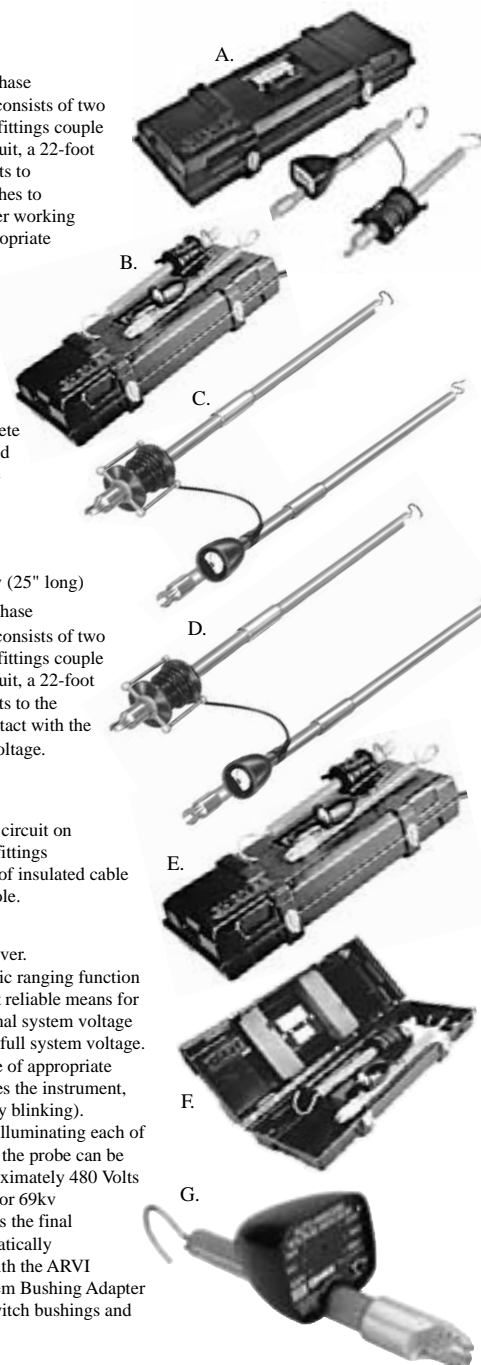
#### F. H1879 Phase Rotation Tester 16kv

To determine the correct phase-rotation relationship, this portable instrument features construction similar to Phasing Tester H1876-1. An additional grounding circuit on the Phase Rotation Tester sets it apart for the specific purpose named. The probe fittings couple with a high-impedance component encased in each pole. A 22-foot length of insulated cable stores on the reel affixed to one pole and connects to the voltmeter on the other pole.

#### G. C403-3374 Indicator, Auto-Ranging Volt 600v to 69kv.

This smart new-generation instrument makes hot-line voltage testing easier than ever.

Its state-of-the-art electronics eliminate the need for a selector switch. Its automatic ranging function quickly displays the approximate line-to-line voltage class. It provides an easy, yet reliable means for the operator to determine if a line is: (a) De-energized (b) Carrying less than normal system voltage from any source or induced charged from an adjacent live circuit (c) Energized at full system voltage. Simple to operate, the tester attaches to an Epoxiglas® insulating universal handle of appropriate length to maintain proper OSHA working clearances. A single pushbutton activates the instrument, then a single light indicates either Power On (by glowing solid) or Low Battery (by blinking). With a good battery condition, the instrument performs a confirming self-test by illuminating each of the six indicator lights in series while emitting an alternating audible signal. Then the probe can be brought into contact with the conductor. It automatically begins detecting at approximately 480 Volts and holds the display of one of these voltage classes: 600v, 4kv, 15kv, 25kv, 35kv or 69kv phase-to-phase. The audible signal begins as a slow beeping that becomes faster as the final reading is displayed. When not in use, the unit's energy-saving Sleep mode automatically conserves the battery. For overhead testing, a Shepherd Hook probe is included with the ARVI (Auto-Ranging Voltage Indicator). For underground testing, order as a separate item Bushing Adapter T403-0857. It simply threads onto the ARVI in the field to check for voltage at switch bushings and on cables, using a feed-thru device.



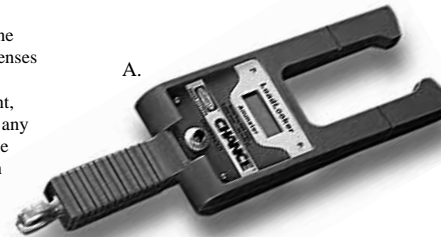


## Meters and Testers

### AB Chance Testers

#### A. MEAMP32RN Ammeter

Up to 69kv. Instead of you manipulating a hinged or clamp-type inductive pick-up, the patented LoadLooker electronically closes the loop for you. Its unique U-shape jaw senses the amperage present between its tines. The open-end design lets you check loads on components not accessible by other hot-line ammeters. Live-line-ready hotstick mount, a standard fitting on the LoadLooker, lets it mount on your insulated hotsticks just as any other universal tool. Your hot-line crews can begin using it immediately, in compliance with prescribed safe-working clearances for your system voltages. Simple pushbutton operation, direct-reading accuracy, a single button controls the operation. Push it once to turn on the LoadLooker. Push it a second time and LoadLooker will display the word HOLD and continue to display the next reading it "sees" until you push the button to clear it. This lets you bring it down from the line to eye level to read it. After five idle minutes, the unit will turn itself off or you can manually turn it off by keeping the button depressed for five seconds. A detailed Operators Manual and storage case are included with each LoadLooker.



#### B. T403-2271 Multi-Range Voltage Detector

This Multi-Range Voltage Detector (MRVD) tests both overhead and underground distribution systems in voltage classes from 5 through 40 kv. This model provides an easy, yet reliable means for the operator to determine if a line is: (a) De-energized, (b) Carrying less than normal system voltage from any source or induced charged from an adjacent live circuit, (c) Energized at full system voltage. For this basic function, this model adapts to both overhead lines as well as URD circuits with 200 Amp loadbreak elbows, including those with and without capacitance test-points. Interchangeable probes and adapters just thread into the MRVD end fitting and the selector switch dials to the voltage range or test point (T.P.) setting appropriate to each application. Furnished owner's manual illustrates operating details for all models.



#### C. T403-2557 Phasing Tester Kit 16kv

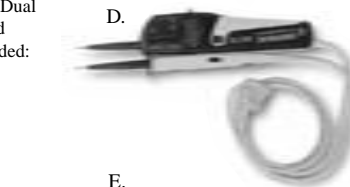
Versatile to popular distribution voltages, convenient Kit facilitates testing both underground and overhead systems. Basic functions include identifying phases and reading line-to-line or line-to-ground voltage. URD accessories in the Kit also permit cable-fault detection. The main instrument consists of high-impedance components encased in two fiberglass poles with threaded end fittings for overhead probes or URD adapters. A 22-foot-long cable connects to the voltmeter pole and stores on the reel pole.



### Greenlee Testers

#### D. DVC-10

Digital Electric Tester. Measures AC/DC voltage 0 to 700v. GFCI test capability eliminates the need for additional testers. Visual and audible continuity test and live conductor test. Built-in flashlight for probe positioning in dark areas—a valuable safety feature. Dual display, with LEDs and LCD backlit digital screen for accurate measurement. Rugged casing is dust and water resistant to IP65 for any jobsite toughness. Accessories included: protective probe caps, carrying case, (2) 1.5v AAA batteries.



### Hastings Testers

#### E. 6793 Transformer Tester

The instrument for determining the condition of your transformers before placing them "into" service or back into service after being de-energized. Tests new transformers and troubleshoots in-service transformers. Provides operating personnel a safe and reliable method to verify distribution transformers do not have shorted or open windings prior to energizing. Detects failures in transformers before loading and transporting to job sites. Eliminates blowing out fuses to determine condition of the transformer. Reduces potential hazards of oil spills and costly clean up caused by energized shorted transformers.





## Meters and Testers

### HD Electric Testers

**A. Halo I Digital Ammeter** Ideally suited for taking spot load studies at transformers or at any mid-span location, as well as, phase balance studies on primary or secondary lines. Halo I is an average reading instrument. Its load-latching circuitry continually latches and locks on to peak system currents. It will display and hold the reading until the display is reset.

#### B. Tilt II Transformer Tester

Transformer Initial Liveness Tester is a versatile tool for quick and easy checks of transformers and connections made to them. In the field, the Tilt II is used to test the primary and secondary sides of new or reworked, single or three phase transformer installations for short circuits prior to energizing. The Tilt II can test the secondary sides of transformers and all the connections made to them, up to and including the meter, prior to energizing. Unlike a simple ohmmeter, the Tilt II can differentiate a true short from the low resistance of a transformer winding.

#### C. Quick-Check Transformer and Capacitor Tester

Performs all the transformer tests of the Tilt II and also tests capacitors and capacitor banks. The Quick-Check uses the same single push-button operation as the Tilt II and automatically distinguishes between transformers and capacitors.



B.



C.



### Knopp Inc. Testers

**D. K-3 Phase sequence indicator** 60-600 volts, 25-60 hertz.

**K-6 Phase sequence indicator** 24-480 volts, 400 hertz.

D.



### Salisbury Testers

**E. 4244 Voltage Indicator** - 240v to 230kv Voltage detector used to verify live or de-energized conductors. May be used with rubber insulating gloves or hot sticks using the splined universal end fitting. Has a 4.5 volt transistor amplifier with a audio/visual indicator. It is recommended that the tester be moved closer to conductor until warning is indicated, or it touches conductor, apparatus, or test point. Test the unit on a nearby conductor to get verification of "dead."

**4356** Complete kit voltage detector for 240v to 230kv. Includes tester, case, and shotgun adapter.

**4367** Complete kit voltage detector for 240v to 500kv. Includes tester, case, and shotgun adapter.

**4444** Voltage detector for 15kv/25kv/35kv URD. 4.2kv/15kv/25kv/35kv/46kv/69kv Overhead.

**4469** Complete kit voltage detector for 240v to 69kv. Includes tester, case, and shotgun adapter.

E.



F.



### Safety Line Testers

**F PD800W Cordless Phasing Tester** Featuring state-of-the-art wireless technology, the PD800W Cordless Phasing Tester effectively and easily operates in multiple applications including phasing, voltage detection, phase sequencing and phase angle indication. The set is designed to operate like a conventional phasing tester, but does not require an interconnect cable. Each set consists of two units; a Reference Probe (Transmitter) and a Meter Probe (Receiver).

#### Basic Functions:

- **Cordless Phasing Tool** - 120V - 500kV
- **Phaser Sequence & Phaser Angle Indicator** - Identifies phase relationships with indicating lights and in degrees of separation. Automatically alerts user of the existence of Delta/Wye transformations. Can be used to tie utility systems and cogeneration plants together.
- **Voltage Detector** - 4kv
- **Operating Range** - 50 feet

The ability to display the degree relationship between phases allows the PD500W to function as a high voltage phase sequence indicator.





## Meters and Testers & Locators

### Safety Line Testers

**A. 81280US** 300v - 25kv Underground and Overhead voltage detector and phasing voltmeter. Universal fitting. Comes with 2 bushing adapters. Grip all and quick style also available.

**83280QS**

300v - 35kv Underground and Overhead voltage detector and phasing voltmeter. Quick change fitting. Comes with 2 bushing adapters. Universal and grip all styles are also available.

**8128TEALB 15** - 25kv elbow adapter.

**B. 84600**

Phase sequence indicator used to determine the proper sequence on all polyphase circuits prior to connecting phase sensitive loads such as pumps or motors. They will indicate the presence of all PA25PP Phasing probe with quick change.

### Dillon Dynamometers

**C. Dynamometer**

The Dillon AP Mechanical Dynamometer exhibits limitless versatility as a tension, traction and weight measuring instrument. Available in capacities from 500 to 100,000 pounds. The core of the device is a steel flexing beam. The enclosure is a heavy aluminum alloy case with baked on protective finish. The dial face is sealed and cushioned with a rubber gasket. Most models have a 5:1 ultimate safety factor. 5- or 10-inch face.

### Subsurface Technologies

**D. Locators PL-2000** The PL-2000 Pipe and Cable Locator offers a new approach in high power, low frequency locating. With three active frequencies, two passive frequencies, four modes of operation, and both inductive and direct connection capabilities, the PL-2000 is powerful and versatile, but still surprisingly easy to use and cost effective.

**E. PL-920** Versatile tool that can be used to locate the following: Iron, steel, and copper water lines, metal gas lines, copper tracer wire, copper and aluminum electrical wires, steel cables, telephone and tv cables, aluminum conduit, and any continuous metal pipe or line.

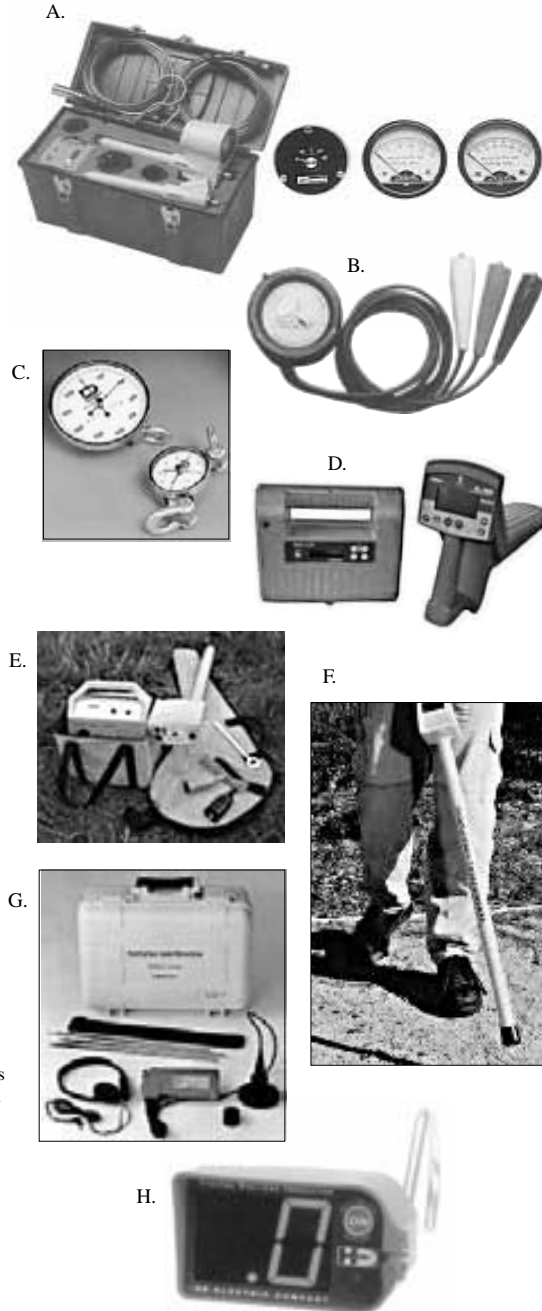
**F. ML-1M** Magnetic locator used to find: Corner markers, steel drums, mag nails and PK nails, septic tank handles, valve and curb boxes, energized electric cables, iron and steel pipes, marker magnets, well casings, unexploded bombs, and manhole covers. The ML-1M is a non-metered device. It features a digital meter that provides for visual signal strength, polarity indication, gain setting plus battery life display.

**G. LD-7** Among the best water leak survey and pinpointing equipment in the business. Our systems are easy to use, accurate and dependable. The sensors can even be submerged in flooded valve boxes without worry. Our leak detectors can detect most any leak pressurized at 10 to 15 p.s.i. or more.

### HD Electric

**H. DVI-100 Digital Voltage Indicator**

This high-voltage indicator provides the user with the approximate line-to-ground voltage of the electrical circuit being tested. Used on a hot stick, DVI is a direct contact instrument utilizing an ultra bright LED display. For use on system voltages up to 161kV and can be used on underground electrical systems with an optional underground probe.





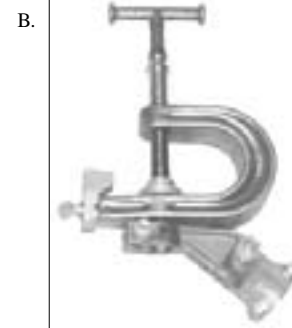
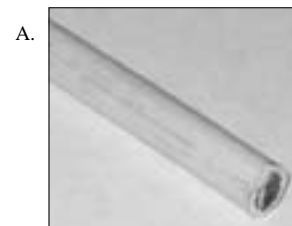
## Grounding

### AB Chance

#### A. Copper Grounding Cable

Copper grounding cable is available in black, yellow and clear, is extra-flexible for handling ease yet strong and tough for long wear. Jacketing is smooth, abrasion, weather and oil resistant in accordance with applicable ASTM Specifications, marked with AWG size approximately every 4 feet. Yellow and black jackets are T-prene rubber compound with -20 degree F recommended low temperature. Clear jackets (which allow visual inspection of strand conditions) are ultraviolet inhibited Poly Vinyl Chloride (PVC). Recommended low temperature for PVC-jacketed cable is 0 degree F. Extra-flexible cables, because of their extra-fine strands, require termination ferrules when used with ground clamps. Either aluminum or copper ferrules may be used with copper cable.

Model	AWG Size	Strands	Approx. Dia. (Inch)	O.D. (Inch)	Approx Wt. Lb./1000ft.
<b>Yellow Jacket Copper Cable</b>					
S6116	2	665	0.32	0.55	280
S6117	1/0	1045	0.41	0.66	425
S6118	2/0	1330	0.47	0.73	520
S6119	4/0	2109	0.59	0.87	760
<b>Clear Jacket Copper Cable</b>					
S6449	2	665	0.344	0.53	289
S7568	1/0	1050	0.445	0.63	520
S6450	2/0	1323	0.487	0.7	546
S6451	4/0	2107	0.616	0.84	841
<b>Black Jacket Copper Cable</b>					
S3713	2	665	0.32	0.55	280
S3715	1/0	1045	0.41	0.66	425
S3712	2/0	1330	0.47	0.73	510
S3714	4/0	2109	0.59	0.87	76



### AB Chance

#### B. Clamps & Ferrules C600-0085

Tower clamp with aluminum body and retainer. Bronze scrubber-type contact pads, bronze T-handle with fine threads, bronze pressure-type terminal.

Continuous Current AMPS	400
Fault Current 15 Cycles AMPS	43,000
Fault Current 30 Cycles AMPS	30,000
Recommended Torque	250
Main Line Range - Max	4" Structural Angles
Main Line Range - Min	2" Structural Angles
Jumper Range - Max	4/0 Grd. Cable w/Plain Plug
Jumper Range - Min	#2 Grd. Cable w/Plain Plug
Weight	3 3/4 lb.

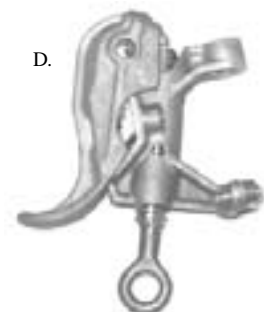
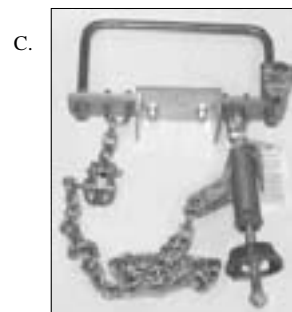
ASTM Designation Type III Class B Grade 5

**C. C600-0152** Cluster Support, 1-terminal type. Conveniently hangs around grounding sets on the pole to facilitate lifting clamps—one at a time to the conductors. Accepts plain ferrules on #2 to 4/0 grounding cable. Copper bar length is 11 inches.

**D. C600-0197** Snap-On (Duckbill-type) grounding clamp has an aluminum body, bronze upper jaw, serrated jaws, bronze eyescrew with acme threads, 5/8-11 UNC terminal threads.

Continuous Current AMPS	400
Fault Current 15 Cycles AMPS	43,000
Fault Current 30 Cycles AMPS	30,000
Recommended Torque	250
Main Line Range - Max	950 MCM Cu 1510 MCM Al (1.506")
Main Line Range - Min	#6 Sol. Cu (.162")
Jumper Range - Max	4/0 Grd. Cable w/Threaded Stud
Jumper Range - Min	#2 Grd. Cable w/Threaded Stud
Weight	1 1/2 lb.

ASTM Designation Type I Class B Grade 5





## Grounding

### AB Chance

#### A. C600-0434

Snap-On (Duckbill-type) grounding clamp with aluminum body, serrated jaws, bronze eyescrew with fine threads, bronze pressure-type terminal.

Continuous Current AMPS	400
Fault Current 15 Cycles AMPS	43,000
Fault Current 30 Cycles AMPS	30,000
Recommended Torque	250
Main Line Range - Max	950 MCM Cu 1510 MCM Al (1.506")
Main Line Range - Min	#6 Sol. Cu (.162")
Jumper Range - Max	4/0 Grd. Cable w/Threaded Stud
Jumper Range - Min	#2 Grd. Cable w/Threaded Stud
Weight	1 1/2 lb.
ASTM Designation Type I Class B Grade 5	

#### B. C600-1734

Snap-On (Duckbill-type) grounding clamp with aluminum body, smooth jaws, bronze eyescrew with fine threads, 5/8-11 UNC terminal threads.

Continuous Current AMPS	400
Fault Current 15 Cycles AMPS	43,000
Fault Current 30 Cycles AMPS	30,000
Recommended Torque	250
Main Line Range - Max	556 MCM Cu 900 MCM ACSR (1.162")
Main Line Range - Min	#6 Sol. Cu (.162")
Jumper Range - Max	4/0 Grd. Cable w/Threaded Stud
Jumper Range - Min	#2 Grd. Cable w/Threaded Stud
Weight	1 1/2 lb.
ASTM Designation Type I Class A Grade 5	

#### G1810-2

Snap-On (Duckbill-type) grounding clamp with aluminum body, smooth jaws, bronze eyescrew with fine threads, bronze pressure-type terminal.

Continuous Current AMPS	300
Fault Current 15 Cycles AMPS	28,000
Fault Current 30 Cycles AMPS	20,000
Recommended Torque	250
Main Line Range - Max	250 MCM Cu 4/0 ACSR (.575")
Main Line Range - Min	#6 Sol. Cu (.162")
Jumper Range - Max	2/0 Grd. Cable w/Plain Plug
Jumper Range - Min	#2 Grd. Cable w/Plain Plug
Weight	1 1/2 lb.
ASTM Designation Type I Class A Grade 3	

#### C. G3622-1

Snap-On (Duckbill-type) grounding clamp with aluminum body, smooth jaws, bronze eyescrew with fine threads, bronze pressure-type terminal.

Continuous Current AMPS	400
Fault Current 15 Cycles AMPS	43,000
Fault Current 30 Cycles AMPS	30,000
Recommended Torque	250
Main Line Range - Max	566 MCM Cu 900 MCM ACSR (1.162")
Main Line Range - Min	#6 Sol. Cu (.162")
Jumper Range - Max	4/0 Grd. Cable w/Plain Plug
Jumper Range - Min	#2 Grd. Cable w/Plain Plug
Weight	1 1/2 lb.
ASTM Designation Type I Class A Grade 5	

A.



B.



C.



**Custom grounds and jumpers available!**  
Please call in your clamp type, cable size and length.



## Grounding

### AB Chance

#### A. T600-0806

Snap-On (Duckbill-type) grounding clamp with aluminum body, serrated jaws, bronze eyescrew with fine threads, bronze pressure-type terminal.

Continuous Current AMPS	400
Fault Current 15 Cycles AMPS	43,000
Fault Current 30 Cycles AMPS	30,000
Recommended Torque	250
Main Line Range - Max	1590 MCM ACSR (1.625")
Main Line Range - Min	.5"
Jumper Range - Max	4/0 Grd. Cable w/Plain Plug
Jumper Range - Min	#2 Grd. Cable w/Plain Plug
Weight	1 3/4 lb.

ASTM Designation Type I Class B Grade 5

A.



#### B. C600-0862

Cutout grounding clamp with L-stud, bronze, used to ground the bottom hinge contact on cutouts used on distribution riser poles or where grounding is required. Fits Chance F2, F3, and C Cutouts, Westinghouse LDX, Southern States B-80; Southern States series 63; Joslyn; S&C Type SX; McGraw-Edison LMO, and GE Durabute. Clamp can be installed with or without grounding cable to aid as a warning and possibly avoid accidental closing of cutout. Clamp's drilled terminal accepts threaded-stud cable ferrules. It also accepts threaded L-stud and T-stud terminals (3/4" diameter bronze) for use with conventional ground-clamp sets. Fault current rating 20,000 amps for 30 cycles.

B.



#### C. C600-1584

"Eyebolt" style conversion terminal. Threaded-terminal adapter for pressure-type grounding terminals. Simply retrofit this bolt on adapter to convert C-type, Snap-On Flat-Face clamps with threaded-stud cable ferrules tapped 5/8-11 UNC.

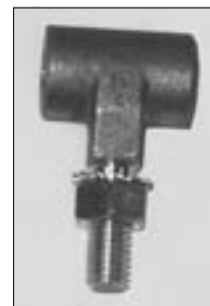
#### D. C600-1735

Tower & flat face grounding clamp with aluminum body, serrated jaws, bronze eyescrew with fine threads, 5/8-11 UNC terminal threads.

Continuous Current AMPS	400
Fault Current 15 Cycles AMPS	25,000
Fault Current 30 Cycles AMPS	25,000
Recommended Torque	250
Main Line Range - Max	1 1/2" Angles 1 1/2" Flat
Main Line Range - Min	1/8"
Jumper Range - Max	2/0 Grd. Cable w/Threaded Stud
Jumper Range - Min	#2 Grd. Cable w/Threaded Stud
Weight	1 1/2 lb.

ASTM Designation Type I Class B Grade 3

C.



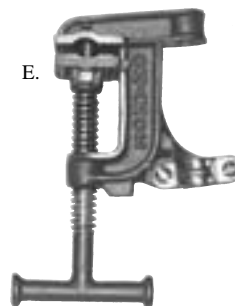
#### E. C600-2231

Tower & flat face grounding clamp with aluminum body, serrated jaws, bronze T-handle with acme threads, drilled terminal, no threads.

Continuous Current AMPS	400
Fault Current 15 Cycles AMPS	43,000
Fault Current 30 Cycles AMPS	30,000
Recommended Torque	250
Main Line Range - Max	1 1/2" Angles 1 1/2" Flat
Main Line Range - Min	1/8"
Jumper Range - Max	4/0 Grd. Cable w/Threaded Stud
Jumper Range - Min	#2 Grd. Cable w/Threaded Stud
Weight	2 lb.

ASTM Designation Type III Class B Grade 5

E.



D.



**Custom grounds and jumpers available!**  
Please call in your clamp type, cable size and length.



## Grounding

### AB Chance

#### A. C600-2232

Tower & flat face grounding clamp with aluminum body, serrated jaws, bronze eyescrew with acme threads, drilled terminal, no threads.

Continuous Current AMPS	400
Fault Current 15 Cycles AMPS	43,000
Fault Current 30 Cycles AMPS	30,000
Recommended Torque	250
Main Line Range - Max	1 1/2" Angles 1 1/2" Flat
Main Line Range - Min	1/8"
Jumper Range - Max	4/0 Grd. Cable w/Threaded Stud
Jumper Range - Min	#2 Grd. Cable w/Threaded Stud
Weight	2 lb.
ASTM Designation Type I Class B Grade 5	

#### B. G3363-1

Tower & flat face grounding clamp with bronze body, serrated jaws, bronze eyescrew with fine threads, bronze pressure-type terminal.

Continuous Current AMPS	400
Fault Current 15 Cycles AMPS	25,000
Fault Current 30 Cycles AMPS	25,000
Recommended Torque	250
Main Line Range - Max	1 1/2" Angles 1 1/2" Flat
Main Line Range - Min	1/8"
Jumper Range - Max	2/0 Grd. Cable w/Plain Plug
Jumper Range - Min	#2 Grd. Cable w/Plain Plug
Weight	2 1/2 lb.
ASTM Designation Type I Class B Grade 3	

#### C. G3363-2

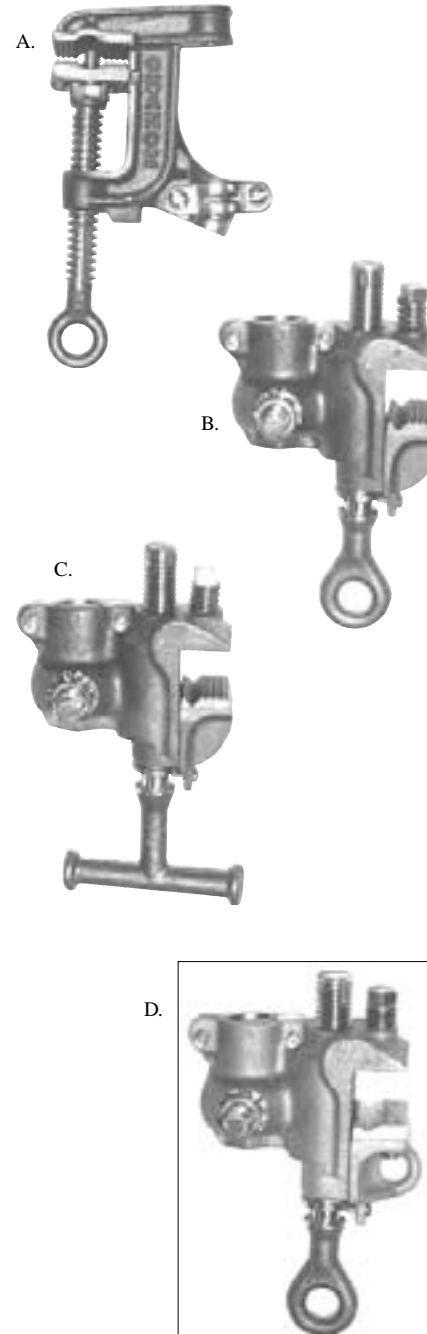
Tower & flat face grounding clamp with bronze body, serrated jaws, bronze t-handle with fine threads, bronze pressure-type terminal.

Continuous Current AMPS	400
Fault Current 15 Cycles AMPS	25,000
Fault Current 30 Cycles AMPS	25,000
Recommended Torque	250
Main Line Range - Max	1 1/2" Angles 1 1/2" Flat
Main Line Range - Min	1/8"
Jumper Range - Max	2/0 Grd. Cable w/Plain Plug
Jumper Range - Min	#2 Grd. Cable w/Plain Plug
Weight	2 1/2 lb.
ASTM Designation Type III Class B Grade 3	

#### D. G3363-3SJ

Tower & flat face grounding clamp with aluminum body, serrated jaws, bronze eyescrew with fine threads, bronze pressure-type terminal.

Continuous Current AMPS	400
Fault Current 15 Cycles AMPS	25,000
Fault Current 30 Cycles AMPS	25,000
Recommended Torque	250
Main Line Range - Max	1 1/2" Angles 1 1/2" Flat
Main Line Range - Min	1/8"
Jumper Range - Max	2/0 Grd. Cable w/Plain Plug
Jumper Range - Min	#2 Grd. Cable w/Plain Plug
Weight	1 5/8 lb.
ASTM Designation Type I Class B Grade 3	



**Custom grounds and jumpers available!**  
Please call in your clamp type, cable size and length.



## Grounding

### AB Chance

#### G3363-4SJ

Tower & flat face grounding clamp with aluminum body, serrated jaws, bronze t-handle with fine threads, bronze pressure-type terminal.

Continuous Current AMPS	400
Fault Current 15 Cycles AMPS	25,000
Fault Current 30 Cycles AMPS	25,000
Recommended Torque	250
Main Line Range - Max	1 1/2" Angles 1 1/2" Flat
Main Line Range - Min	1/8"
Jumper Range - Max	2/0 Grd. Cable w/Plain Plug
Jumper Range - Min	#2 Grd. Cable w/Plain Plug
Weight	1 5/8 lb.
ASTM Designation Type III Class B Grade 3	

#### A. T600-1798

Tower & flat face grounding clamp with aluminum body, serrated jaws, bronze t-handle with acme threads, 5/8-11 UNC terminal threads.

Continuous Current AMPS	400
Fault Current 15 Cycles AMPS	25,000
Fault Current 30 Cycles AMPS	25,000
Recommended Torque	250
Main Line Range - Max	1 1/2" Angles 1 1/2" Flat
Main Line Range - Min	1/8"
Jumper Range - Max	2/0 Grd. Cable w/Threaded Stud
Jumper Range - Min	#2 Grd. Cable w/Threaded Stud
Weight	1 1/2 lb.
ASTM Designation Type III Class B Grade 3	

#### B. C600-1733

C-type grounding clamp with aluminum body, smooth jaws, bronze eyescrew with acme threads, 5/8-11 UNC terminal threads.

Continuous Current AMPS	400
Fault Current 15 Cycles AMPS	43,000
Fault Current 30 Cycles AMPS	30,000
Recommended Torque	250
Main Line Range - Max	2 1/2" O.D. Bus
Main Line Range - Min	#4 Str. Cu (.232")
Jumper Range - Max	4/0 Grd. Cable w/Threaded Stud
Jumper Range - Min	#2 Grd. Cable w/Threaded Stud
Weight	2 3/8 lb.
ASTM Designation Type I Class A Grade 5	

#### C. T600-0790

C-type grounding clamp with bronze body, smooth jaws, bronze t-handle/eyescrew with fine threads, 5/8-11 UNC terminal threads.

Continuous Current AMPS	200
Fault Current 15 Cycles AMPS	21,500
Fault Current 30 Cycles AMPS	15,000
Recommended Torque	200
Main Line Range - Max	477 MCM ACSR (.814")
Main Line Range - Min	#6 Sol. Cu (.162")
Jumper Range - Max	1/0 Grd. Cable w/Threaded Stud
Jumper Range - Min	#2 Grd. Cable w/Threaded Stud
Weight	1 1/2 lb.
ASTM Designation Type I Class A Grade 2	

A.



B.



C.



**Custom grounds and jumpers available!**  
Please call in your clamp type, cable size and length.



## Grounding

### AB Chance

#### A. C600-1743

C-type grounding clamp with aluminum body, smooth jaws, bronze eyescrew with fine threads, 5/8-11 UNC terminal threads.

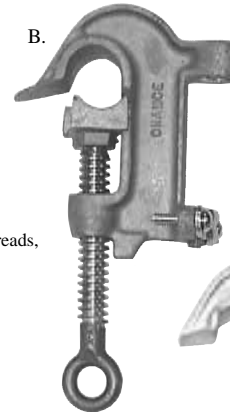
Continuous Current AMPS	400
Fault Current 15 Cycles AMPS	43,000
Fault Current 30 Cycles AMPS	30,000
Recommended Torque	250
Main Line Range - Max	1000 MCM Cu 1590 MCM ACSR (1.50")
Main Line Range - Min	#6 Sol. Cu (.162")
Jumper Range - Max	4/0 Grd. Cable w/Threaded Stud
Jumper Range - Min	#2 Grd. Cable w/Threaded Stud
Weight	1 1/2 lb.
ASTM Designation Type I Class A Grade 5	



#### B. C600-1754

C-type grounding clamp with aluminum body, smooth jaws, bronze eyescrew with acme threads, 5/8-11 UNC terminal threads.

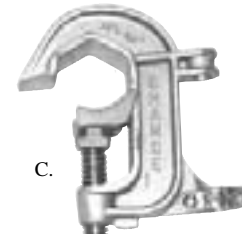
Continuous Current AMPS	350
Fault Current 15 Cycles AMPS	28,000
Fault Current 30 Cycles AMPS	20,000
Recommended Torque	250
Main Line Range - Max	750 MCM Cu 636 MCM ACSR (.998")
Main Line Range - Min	#8 Sol. Cu (.128")
Jumper Range - Max	2/0 Grd. Cable w/Threaded Stud
Jumper Range - Min	#2 Grd. Cable w/Threaded Stud
Weight	1 lb.
ASTM Designation Type I Class A Grade 3	



#### C. C600-2255

C-type grounding clamp with aluminum body, smooth jaws, bronze eyescrew with acme threads, 5/8-11 UNC terminal threads.

Continuous Current AMPS	400
Fault Current 15 Cycles AMPS	43,000
Fault Current 30 Cycles AMPS	30,000
Recommended Torque	250
Main Line Range - Max	2" O.D. Bus
Main Line Range - Min	#6 Sol. Cu (.162")
Jumper Range - Max	4/0 Grd. Cable w/Threaded Stud
Jumper Range - Min	#2 Grd. Cable w/Threaded Stud
Weight	1 3/4 lb.
ASTM Designation Type I Class A Grade 5	



#### D. C600-2256

C-type grounding clamp with aluminum body, serrated jaws, bronze eyescrew with acme threads, 5/8-11 UNC terminal threads.

Continuous Current AMPS	400
Fault Current 15 Cycles AMPS	43,000
Fault Current 30 Cycles AMPS	30,000
Recommended Torque	250
Main Line Range - Max	2" O.D. Bus
Main Line Range - Min	#6 Sol. Cu (.162")
Jumper Range - Max	4/0 Grd. Cable w/Threaded Stud
Jumper Range - Min	#2 Grd. Cable w/Threaded Stud
Weight	1 3/4 lb.
ASTM Designation Type I Class B Grade 5	



**Custom grounds and jumpers available!**  
Please call in your clamp type, cable size and length.



## Grounding

### AB Chance

#### A. C600-2276

C-type grounding clamp with aluminum body, serrated jaws, bronze eyescrew with acme threads, bronze pressure-type threads.

Continuous Current AMPS	400
Fault Current 15 Cycles AMPS	43,000
Fault Current 30 Cycles AMPS	30,000
Recommended Torque	250
Main Line Range - Max	1033 MCM ACSR (1.25")
Main Line Range - Min	#8 Sol. Cu (.128")
Jumper Range - Max	4/0 Grd. Cable w/Plain Plug
Jumper Range - Min	#2 Grd. Cable w/Plain Plug
Weight	1 1/4 lb.
ASTM Designation	Type I Class B Grade 5

#### C600-2275

C-type grounding clamp with aluminum body, smooth jaws, bronze eyescrew with acme threads, bronze pressure-type threads.

Continuous Current AMPS	400
Fault Current 15 Cycles AMPS	43,000
Fault Current 30 Cycles AMPS	30,000
Recommended Torque	250
Main Line Range - Max	1033 MCM ACSR (1.25")
Main Line Range - Min	#8 Sol. Cu (.128")
Jumper Range - Max	4/0 Grd. Cable w/Plain Plug
Jumper Range - Min	#2 Grd. Cable w/Plain Plug
Weight	1 1/4 lb.
ASTM Designation	Type I Class A Grade 5

#### C600-2281

C-type grounding clamp with aluminum body, smooth jaws, bronze eyescrew with acme threads, bronze pressure-type threads.

Continuous Current AMPS	400
Fault Current 15 Cycles AMPS	43,000
Fault Current 30 Cycles AMPS	30,000
Recommended Torque	250
Main Line Range - Max	2" O.D. Bus
Main Line Range - Min	#6 Sol. Cu (.162")
Jumper Range - Max	4/0 Grd. Cable w/Plain Plug
Jumper Range - Min	#2 Grd. Cable w/Plain Plug
Weight	2 lb.
ASTM Designation	Type I Class A Grade

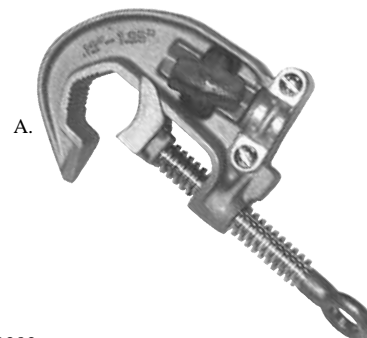
### AB Chance

#### B. G3367-2

C-type grounding clamp with aluminum body, smooth jaws, bronze eyescrew with acme threads, bronze pressure-type threads.

Continuous Current AMPS	400
Fault Current 15 Cycles AMPS	43,000
Fault Current 30 Cycles AMPS	30,000
Recommended Torque	250
Main Line Range - Max	2 1/2" O.D. Bus
Main Line Range - Min	#4 Str. Cu (.232")
Jumper Range - Max	4/0 Grd. Cable w/Plain Plug
Jumper Range - Min	#2 Grd. Cable w/Plain Plug
Weight	2 3/8 lb.
ASTM Designation	Type I Class A Grade 5

**Custom grounds and jumpers available!**  
Please call in your clamp type, cable size and length.



#### C600-2282

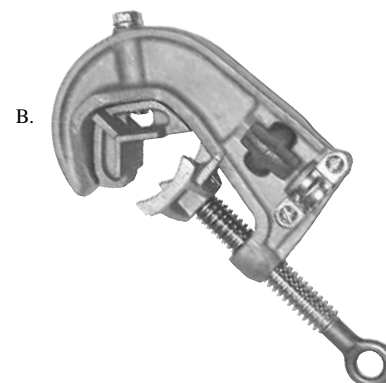
C-type grounding clamp with aluminum body, serrated jaws, bronze eyescrew with acme threads, bronze pressure-type threads.

Continuous Current AMPS	400
Fault Current 15 Cycles AMPS	43,000
Fault Current 30 Cycles AMPS	30,000
Recommended Torque	250
Main Line Range - Max	2" O.D. Bus
Main Line Range - Min	#6 Sol. Cu (.162")
Jumper Range - Max	4/0 Grd. Cable w/Plain Plug
Jumper Range - Min	#2 Grd. Cable w/Plain Plug
Weight	2 lb.
ASTM Designation	Type I Class B Grade 5

#### T600-2708

C-type grounding clamp with aluminum body, serrated jaws, bronze eyescrew with acme threads, 5/8-11 UNC terminal threads.

Continuous Current AMPS	400
Fault Current 15 Cycles AMPS	43,000
Fault Current 30 Cycles AMPS	30,000
Recommended Torque	250
Main Line Range - Max	1033 MCM ACSR (1.25")
Main Line Range - Min	#8 Sol. Cu (.128")
Jumper Range - Max	4/0 Grd. Cable w/Threaded Stud
Jumper Range - Min	#2 Grd. Cable w/Threaded Stud
Weight	1 1/4 lb.
ASTM Designation	Type I Class B Grade 5







## Grounding

### AB Chance

#### G3369

Bus-Bar grounding clamp with aluminum body, serrated jaws, bronze eyescrew with acme threads, bronze pressure-type terminal.

Continuous Current AMPS	400
Fault Current 15 Cycles AMPS	43,000
Fault Current 30 Cycles AMPS	30,000
Recommended Torque	300
Main Line Range - Max	4"x4" Square 4.5" O.D. Bus
Main Line Range - Min	1/0 Str. Cu (.368")
Jumper Range - Max	4/0 Grd. Cable w/Plain Plug
Jumper Range - Min	#2 Grd. Cable w/Plain Plug
Weight	5 1/4 lb.

ASTM Designation Type I Class A Grade 5

#### A. G4228-10SJ

All-angle grounding clamp with aluminum body, serrated jaws, bronze pressure terminal.

Continuous Current AMPS	400
Fault Current 15 Cycles AMPS	43,000
Fault Current 30 Cycles AMPS	30,000
Recommended Torque	250
Main Line Range - Max	2 1/2 IPS (2.88")
Main Line Range - Min	#2 Cu (.258")
Jumper Range - Max	4/0 Grd. Cable w/Plain Plug
Jumper Range - Min	#2 Grd. Cable w/Plain Plug
Weight	3 1/4 lb.

ASTM Designation Type I Class B Grade 5

**B. G4229-1SJ** All-angle grounding clamp with aluminum body, serrated jaws, pressure terminal.

Continuous Current AMPS	400
Fault Current 15 Cycles AMPS	43,000
Fault Current 30 Cycles AMPS	30,000
Recommended Torque	250
Main Line Range - Max	954 MCM ACSR (1.196")
Main Line Range - Min	#2 Cu (.258")
Jumper Range - Max	4/0 Grd. Cable w/Plain Plug
Jumper Range - Min	#2 Grd. Cable w/Plain Plug
Weight	2 lb.

ASTM Designation Type I Class B Grade 5

**C600-2100** Ball-and-socket grounding clamp with drilled terminal.

For threaded stud ferrule on #2 to 4/0 grounding cable.

Fault current rating 43,000 amps 15 cycles or 30,000 amps 30 cycles.

**C. C600-2101** Ball-and-socket grounding clamp with tapped terminal.

For threaded stud ferrule on #2 to 4/0 grounding cable.

Fault current rating 43,000 amps 15 cycles or 30,000 amps 30 cycles.

**D. C600-2102** Standard ball stud. Overall length 4 1/4", shank length 1 13/16."

Does not interchange with three-way grounding clamp sets.

**E. T600-2364** Long ball stud. Overall length 7", shank length 3 5/16."

Does not interchange with three-way grounding clamp sets.

**F. C600-2300** Ball-and-socket grounding clamp with pressure terminal.

For plain-plug ferrule on #2 to 4/0 grounding cable.

Fault current rating 43,000 amps 15 cycles or 30,000 amps 30 cycles.

A.



B.



C.



D.



E.



F.



**Custom grounds and jumpers available!**  
Please call in your clamp type, cable size and length.



## Grounding

### AB Chance

#### A. Shrouded Plain Copper Ferrules

Plain Plug Type for pressure-type grounding clamp terminals

Model	Burndy Die Sect. A	Sect. B	Cable Size AWG
C600-2630	U165	U166	#2
C600-2631	U165	U168	1/0
C600-2632	U165	U-L	2/0
C600-2633	U166	U-L	4/0

#### B. Unshrouded Plain Copper Ferrules

Plain Plug Type for pressure-type grounding clamp terminals

Model	Burndy Die	Cable Size AWG
C600-2614	U165	#2
C600-2615	U165	1/0
C600-2616	U165	2/0
C600-2617	U166	4/0

#### C. Shrouded Threaded Copper Ferrules

Threaded Stud Type for tapped or drilled grounding clamp terminals

Model	Burndy Die Sect. A	Sect. B	Cable Size AWG
C600-2622	U165	U166	#2
C600-2623	U165	U168	1/0
C600-2624	U165	U-L	2/0
C600-2625	U166	U-L	4/0

#### D. Unshrouded Threaded Copper Ferrules

Threaded Stud Type for tapped or drilled grounding clamp terminals

Model	Burndy Die	Cable Size AWG
C600-2606	U165	#2
C600-2607	U165	1/0
C600-2608	U165	2/0
C600-2609	U166	4/0

#### E. G3370

Temporary ground rod provides a temporary ground where a system ground is not available. When installed, the 6' spiral ground rod develops less resistance than straight ground rods. However, actual effectiveness depends upon soil properties. The reusable ground rod is copper clad.

#### F. G3605-1

C-type ground clamp with aluminum body and smooth jaws. Opening size from .162". Fault Current Rating is ASTM Grade 5, continuous current 400 Amps. Jumper range max 4/0 with plain terminal, min range is #2 with plain terminal. Weight is 1.75 lb.

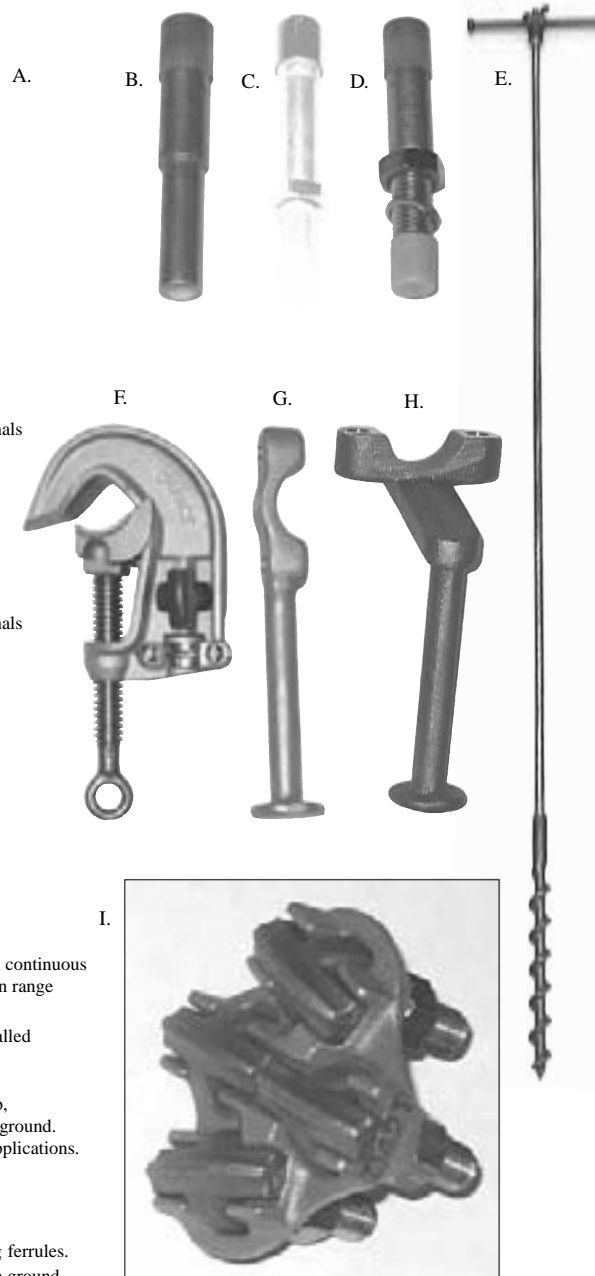
**Support Studs**-For pressure-type terminal clamps. Can be installed on any pressure type terminal ground clamp, in place of the restraining strap immediately below the pressure terminal. The stud serves as a mechanical parking stand for a second clamp, preventing the clamp from making contact with the conductor or ground. This feature is particularly beneficial in three-phase grounding applications.

**G. G3626** stud for rear mount 7/16"x2 1/2"

**H. G3627** stud for side mount 7/16"x3"

#### I. G4754-1 Terminal block - 4 way for cables with plain plug ferrules.

Used to attach ground leads from grounding clamps to a common ground. These terminal blocks are also ideal where permanent temporary grounding sets are part of substation emergency equipment. Accommodates 4/0 grounding cables with plain ferrules.



**Custom grounds and jumpers available!**  
Please call in your clamp type, cable size and length.



## Grounding

### Hastings

**21057**

Substation grounding clamp with aluminum body, bronze eyescrew with acme threads. Min range .398" diameter. Max range is 6.625" diameter. Hanger stud is 5/8" diameter copper alloy. Rating is 54,000 amps for 15 cycles and 39,000 amps for 30 cycles. Weight 8.7 lb.

### Safety Line

#### 1715 Hydraulic spike for underground cable.

Used for grounding and draining a cable after it has been de-energized and before contact is made by hand. Each assembly has a 30 foot insulated hydraulic hose and a hand-operated hydraulic pump.

The ground lead is 6ft long, 1/0 insulated copper cable with a clamp (760001C) for connection to a local system ground. Maximum spike depth 1 5/8." Fault duty of 17kA meet ASTM F-855 grade 2 specifications. Weight is 27 lb., and a bag is included.

#### 75421236 Ball stud cover.

#### 7542581BSS Stainless steel ball stud.

5/8-11 thread. Fault duty 15 cycles 27kA. ASMT F-855 grade 3. Weight 10oz.

#### A. 760001PB Aluminum bar pole band.

It is lightweight and easy to install. Required component of equal potential zone grounding systems. Fault duty for 15 cycles is 27kA. Grade 3. Weight is 4 lb.

#### B. 760045PB Copper bar pole band.

It is lightweight and easy to install. Required component of equal potential zone grounding systems. Fault duty for 15 cycles is 43kA. Grade 5. Weight is 5 lb.

#### C. 760001C Standard C-clamp with aluminum body.

Smooth jaws, bronze eyescrew, threaded. Min size #6 (3/16"), max size 1 1/4." Grade 5, class A, termination style 7. Weight 1 lb.

#### 7640002CS2S Cutout clamp with studs.

Aluminum body, smooth jaws, bronze eyescrew, threaded.

Min size #6 (3/16"), max size 1 5/8."

Grade 3, class A, termination style 7. Weight 1 lb.

### Salisbury

#### 21192 Ball stud - Long. 6.13." Made from copper alloy, tin-plated.

Has a 1" diameter ball, 1/2"-13 UNC x 2" thread and a recommended installation torque of 300 in. lbs. Can also be used as the grounding point for "C" or duckbill clamps that have a jaw width of 2.75" or less.

#### 21228 Offset NEMA Pad - Short 5.13" x 1.5."

Made from copper alloy, tin-plated. Has standard NEMA bolt hole spacing.

#### 21236 Cover for ball stud.

#### D. 4388 C-clamp with aluminum body and strain relief sleeve.

Bronze smooth upper jaw, and curved lower jaw. Main line range 1.12" - .12." 400 RMS, 60 Hz. Weight 1 lb.

#### E. 9967 C-clamp for substation bus.

6.62" aluminum body, acme threads. Double contact stud. Grade 5 aluminum smooth jaw with flat lower jaw. Main line range 6.12" IPS, 6.62" - 4." 400 RMS, 60 Hz. Weight 7.3 lb.

### AB Chance

**F Grounding Sets C600-0729** Underground 15kv Single phase transformer ground set. Includes orange-jacketed elbow, 6 ft. of 1/0 copper grounding cable with yellow jacket and bronze grounding clamp T600-0466. Fault current rating 10,000 amps for 10 cycles.

**T600-2131** Underground 25kv Single phase transformer ground set. Includes orange-jacketed elbow, 6 ft. of 1/0 copper grounding cable with yellow jacket and bronze grounding clamp T600-0466. Fault current rating 10,000 amps for 10 cycles.

A.



B.



C.



D.



E.



F.



Custom grounds and jumpers available! Please call in your clamp type, cable size and length.



## Grounding

### AB Chance

#### C600-0758

C-Clamp Live-front temporary ground set. Includes three-way copper terminal block, four bronze ground clamps and three 6ft lengths of 2/0 copper clear-jacket ground cable with threaded-stud aluminum ferrules. C-clamps are T600-0466. Fault current ratings 21,500 amps for 15 cycles or 15,000 amps for 30 cycles.

#### A. C600-0759

15kv temporary ground set for 3-phase switches and transformers. Includes three-way terminal block assembly, three 6ft lengths of 2/0 copper ground cable with clear jacket, a ground clamp and three orange elbows. Fault current rating 10,000 amps for 10 cycles.

#### B. C600-1625

Ground set for underground cable. For temporary grounding of underground distribution cable with jacket over concentric neutral, special clamps help ensure contact with center conductor. Chisel point clamp main line capacity is 1 1/2." C-type clamp in set fits conductors from #6 (.162") to 636 MCM (.998"). Set includes 6ft of #2 copper clear-jacket ground cable and ferrules, and penetrator clamp C-type.

#### C. T600-1922 Spike clamp for underground cable.

Spiked-point clamp main line capacity is 2 1/2." Spiked clamp only.

#### D. T600-2233 Ground set for underground cable.

For temporary grounding of underground distribution cable with jacket over concentric neutral, special clamps help ensure contact with center conductor. Spiked point clamp main line capacity is 2 1/2." C-type clamp in spiked set fits conductors from #6 (.162") to 2" O.D. bus. Set includes ground rod, 6ft of #2 copper clear-jacket ground cable and ferrules, and penetrator clamp C-type.

**C600-1927** Underground Distribution 35kv Single phase transformer ground set. Includes orange-jacketed elbow, 6 ft. of 1/0 copper grounding cable with yellow jacket and bronze grounding clamp T600-0466. Fault current rating 10,000 amps for 10 cycles.

### Ground Parking Stand

#### E. T600-3091 15kv

#### F. T600-2124 25kv

Ground parking stand pre-assembled for padmounted transformers. Provides a grounded surface for the jacketed elbow after it is removed from the transformer bushing and tested to determine if it is de-energized. Set includes bronze ground clamp and 4ft of 1/0 yellow ground cable.

### Bashlin Tools

#### G. 336A

The 336A traveling ground reduces the possibility of electric shock due to accidental contact with energized conductors during stringing operations. Designed for 336 MCM conductor.

### Everly

#### H. Ever-Grounds

Three models to protect against fatal injuries or severe burns during stringing operations. Their unique and exclusive design provides a constant, continuous grounding and guards against accidental energizing of moving conductors. Meet the requirements for travelling grounds by O.S.H.A. section 1926.955 (d) (1-4).

Model	Range	Weight	Size in Test	Conductor Test Current	
				Amperes	Cycles
JT3TA	.0625" - 1"	3 1/2 lb.	4/0 ACSR	23,000	30
JT77TA	.250" - 1.625"	4 3/4 lb.	750 MCM Al	23,000	29
JT712TA	.250" - 2.187"	30 lb.	2300 MCM Al	30,800	27



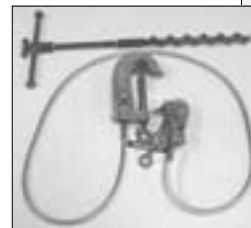
A.



B.



C.



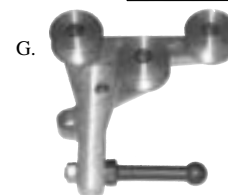
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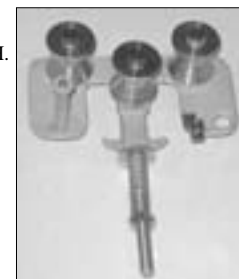
E.



F.



G.



H.



## Hoists

### Chain Link

#### A. AB Chance

Part	Rating	Handle Pull Rating	Lift Rating	Hook to Hook Minimum	Handle Length	Weight
C309-0438	3/4-Ton	65lb.	5 1/2ft	1in.	20in.	14lb.
3011S	1-Ton	90lb.	5 1/2ft	1in.	20in.	14lb.
C309-0439	1 1/2-Ton	60lb.	5 1/2ft	6in.	20in.	22lb.

Every Chance hoist is proof-tested and factory-operated at 150% of capacity rating. Lightweight high-strength handle and sheave housings are heat-treated aluminum. All working parts are fully enclosed in the housing unit to protect the hoist mechanism and to cover the gearing for worker safety. Chain is high-strength alloy steel, polished for smooth action and low wear. Load hooks are forged steel with spring-loaded latches. Both top and bottom hooks swivel 360 degrees to allow for unwinding action of rope or stranded cable under tension.

#### B. Little Mule

Part	Rating	Handle Pull Rating	Lift Rating	Hook to Hook Minimum	Handle Length	Weight
LMSB-1500	3/4-Ton	46lb.	5ft	11 5/8"	9 1/4"	13lb.

Impact resistant stamped steel housing. Compact design, long chain life. Low handle effort, 360 degrees rotating handle. Easy free chain. State-of-the-art free wheeling mechanism allows quick and easy one-handed take-up and positioning of slack chain. Tested at 125% of rated load.

#### C. Little Mule

Part	Rating	Handle Pull Rating	Lift Rating	Hook to Hook Minimum	Handle Length	Weight
TB-602	550lbs		5ft			6lb

Mini Tool Box Hoist (Easy fit for a tool box)

The TB-602 is the most compact ratchet lever hoist in the market, performs just like the larger models, but small enough to fit in a hard hat.

#### D. Jet "Mini-Mite" Series

Part	Rating	Handle Pull Rating	Lift Rating	Hook to Hook Minimum	Handle Length	Weight
MM-75	3/4-Ton	48 1/2lb.	5ft	9 3/4"	10 5/64"	13 1/2lb.

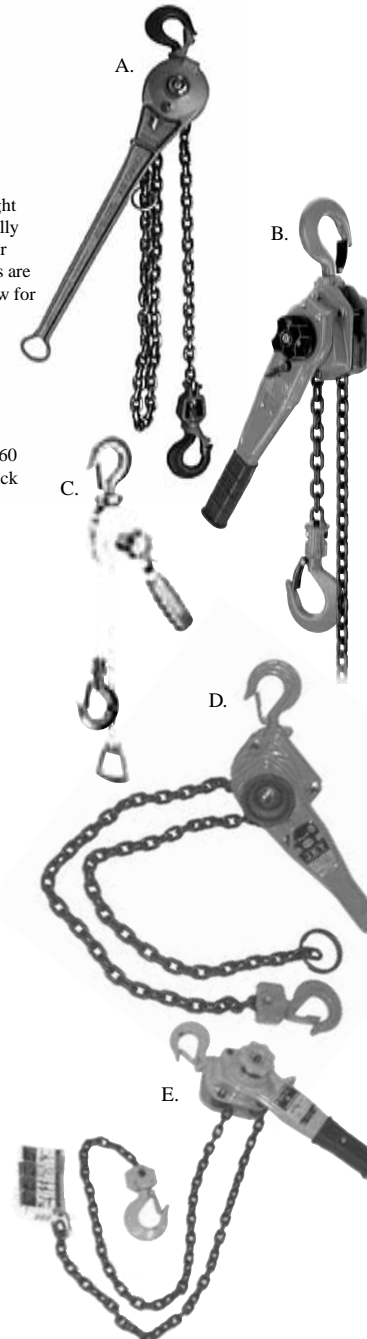
Impact resistant steel construction with powder coat finish.

Single hand control and operation. Drop-forged hooks are designed to bend slowly to warn of overload condition. Super hardened grade 100 low-wear chain. Proof tested and certified.

#### E. Harrington

Part	Rating	Handle Pull Rating	Lift Rating	Hook to Hook Minimum	Handle Length	Weight
LB008	3/4-Ton	58lb.	5ft	11in.	10.4in.	14lb
LB090	9-Ton	74lb.	5ft	27.8in.	16.3in.	93lb.

Compact design with low headroom. Lightweight rugged, all-steel construction. Grade 100 heat-treated manganese alloy load chain resists abrasion and wear while minimizing chain weight. Factory load tested to 125% of rated capacity.





## Hoists

### Chain Roller

#### A. Little Mule

Part	Rating	Handle Pull Rating	Lift Rating	Hook to Hook Minimum	Handle Length	Weight
AG/AGI	1500lb.	56lb.	56 1/2in.	13in.	18 3/4in.	14lb.
ATG/ATGI	3000lb.	60lb.	57in.	15in.	18 3/4in.	17lb.
FG/FGI	3000lb.	116lb.	56 1/2in.	16in.	27 5/8in.	25lb.
FTG/FTGI	6000lb.	120lb.	57in.	17 5/8in.	27 5/8in.	34lb.
ZG-4 1/2	9000lb.	124lb.	53in.	25in.	33 5/8in.	49lb.
ZG-6	12000lb.	124lb.	53in.	25in.	33 5/8in.	59lb.
WG-9	18000lb.	124lb.	60in.	30in.	33 5/8in.	120lb.
WG-11	22000lb.	124lb.	60in.	30in.	33 5/8in.	130lb.
WG-13	26000lb.	124lb.	60in.	30in.	33 5/8in.	140lb.
WG-15	30000lb.	124lb.	60in.	30in.	33 5/8in.	150lb.

Single or double locking pawl for hoists up to 3-ton. Malleable iron housings, internal components made of heat-treated alloy steel for superior strength and durability, riveted construction makes the unit tamper resistant, reversible handle for operation from either side, free chain feature allows easy positioning and setup – will not free chain under load. Handle stops prevent handle from spinning in case operator removes hand from handle during operation. 360 degrees swivel hooks equipped with safety latches for positive load engagement. All units tested at 125% of rated load.



### Strap (Lineman)

#### B. Little Mule

Single Line					Double Line				
Part	Rating	Lift Rating	Hook to Hook Minimum	Rating	Lift Rating	Hook to Hook Minimum	Web Strap Length	Handle Length	Ship Weight
322B	1500lb.	14ft.	20in.	3000lb.	7ft.	23in.	15ft.	24in.	12 1/2lb.
322DB	1500lb.	14ft.	20in.	3000lb.	7ft.	23in.	15ft.	24in.	13lb.
322DHB	1500lb.	14ft.	22in.	3000lb.	7ft.	26in.	15ft.	24in.	13lb.
344DB	2000lb.	11ft.	20in.	4000lb.	5 1/2ft.	23in.	12ft.	30in.	13lb.
344DHB	2000lb.	11ft.	22in.	4000lb.	5 1/2ft.	26in.	12ft.	30in.	13lb.

DB - Includes Hot Stick Rings on All Hooks and Control Surfaces

DHB - Includes Hot Stick-Type Gate Latch on All Hooks as well as Hot Stick Rings on All Hooks and Control Surfaces

Fiberglass handle and polyester webbing provide increased operator safety when using proper hot line techniques, 360 degrees swiveling hooks with safety latches for positive load engagement, durable and portable with special cast aluminum and zinc alloy housings, stainless steel springs and shaft make these units corrosion resistant. Self storing web drum provides compact operation, nonconductive winding wheel provided for quick take-up or positioning of slack webbing, utilizes a double pawl system with multiple pawl stops for precise load adjustment, open construction allows for easy cleaning and inspection, utilizes a quick disconnect pin, and converts hoist for single line use.

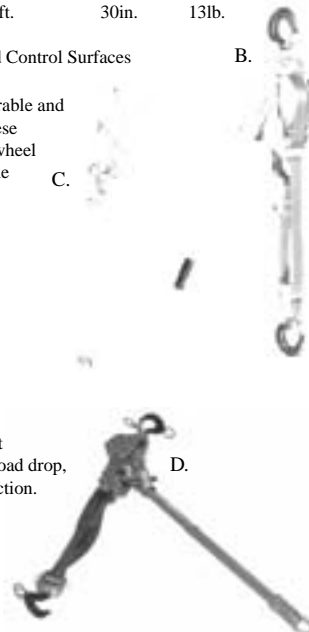
#### C. Lug-All

Part	Single Line			Lift Rating	Double Line		Ship Weight
	Rating	Lift Rating	Rating		Web Strap Length	Handle Length	
2B	1000lb.	8ft.	2000lb.	4ft.	8ft	30in.	10 1/4lb.
3B	1500lb.	10ft.	3000lb.	5ft.	10ft	30in.	13lb.
4B	2000lb.	8ft.	4000lb.	4ft.	8ft	36in.	14 3/4lb.

Equipped with hot stick rings, exclusive overload warning link signals to warn operator of dangerous overload, easily field replaced handle, double flanged drum prevents web strap from coming in contact with ratchet teeth, forged hooks straighten if over-stressed, double locking pawl mechanism prevents load drop, oiled for life bearings assure smooth operation, open frame construction for cleaning and visual inspection.

#### D. AB Chance

Part	Single Line			Double Line		
	Rating	Lift Rating	Rating	Lift Rating	Web Strap Length	Ship Weight
C309-0452	1500lb.	6ft.	3000lb.	3ft.	9ft.	13 1/2lb.





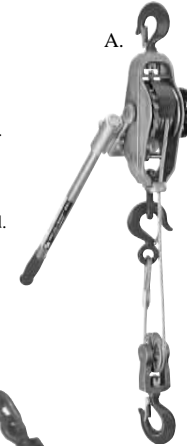
## Hoists

### Cable

#### A. Little Mule

Part	Single Line		Hook to Hook Minimum	Rating	Lift Rating	Double Line		Cable Dia Length	Ship Weight
	Rating	Lift Rating				Hook to Hook Minimum	Lift Rating		
115SA	1000lb.	13 3/4ft.	19in.	-	-	-	-	3/16in.x16ft.	7 3/4lb.
115DA	1000lb.	13 1/2ft.	21in.	2000lb.	6 1/2ft.	27in.	-	3/16in.x16ft.	9 1/2lb.
202WNA	1500lb.	12 1/2ft.	21in.	3000lb.	6ft.	27in.	-	1/4in.x15ft.	10 1/2lb.

Handle designed for overload protection, bends to warn of hazardous condition and prevent overload, 360 degrees swivel hooks with safety latches for positive load engagement, lightweight and rugged, heavy duty cable 7x19 galvanized extra flexible aircraft cable, self storing cable drum, easy load positioning, fast cable take-up, open construction allows for cleaning and visual inspection, designed with 4:1 safety factor and tested at 125% of rated load.

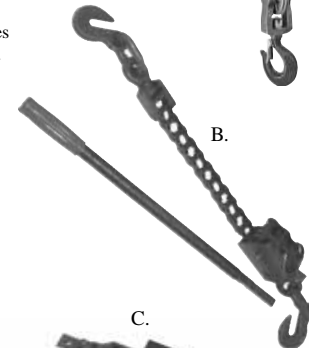


### Load Binder

#### B. Rateliff

Part	Rating	Headroom	Weight
Model C	5400lb.	20"	10lb.

Grab hooks top & bottom, the only rollerless chain binder with 15,000lb. minimum tensile strength that one man can easily operate, alloy steel head, diamond chain, tamper resistant, takes up or releases in 1/2in. increments, total take up is 12in., lever will not whip as on over-center binders.

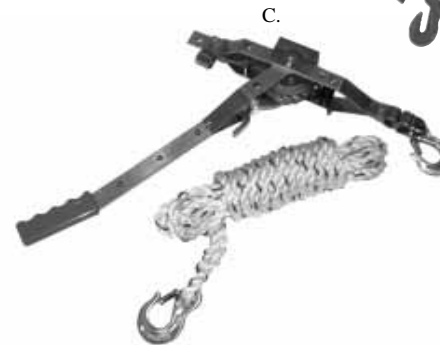


### Rope Hoist

#### C. Maasdam

Part	Desc.	Capacity	Max.Lift	Rope Dia.	Leverage	Weight
A-0	w/o rope	3/4 ton	-	-	10:1	7lb.
A-20	w/rope	3/4 ton	20ft.	1/2in.	10:1	9lb.

Long haul rope puller can be used for recovering vehicles, securing material to trucks, handling logs, trees, and stumps, moving boats and trailers, or clearing debris. Unlimited reach, non-conductive properties with a manufacturer's lifetime warranty.





## Hoists Accessories

### Capstan Hoist

#### AB Chance 1000lb. Hoist

##### A. C308-1170

Power	Rating	Weight
115V AC	1000lb.	35lb.

Includes power hoist and foot control only

##### B. C308-1190

Power	Rating	Weight
Gas	1000lb.	34 3/4lb.

Includes power hoist and foot throttle Only.  
Recommended bracket C308-0925.

#### Accessories for 1000lb hoist:

##### C. C308-1335

All Purpose Bracket (23lb.)

##### D. E308-1321

Bolt Down Bracket (8lb.)

##### E. C308-0925

Universal Bracket

##### F. C417-0346

Chain Clamp (7 1/8lb.)

##### G. C308-0856

Rope Lock Device (1 1/2lb.)

#### 3000lb. Hoist

##### C308-1370 See Photo A.

Power	Rating	Weight
115V AC	3000lb.	53lb.

Includes power hoist and foot control switch only.

##### C308-1390 See Photo B.

Power	Rating	Weight
Gas	3000lb.	53 3/4lb.

Includes power hoist and foot throttle only.

Note: 3000lb. Hoist works at slower speed than 1000 lb. Hoist.

#### Accessories for 3000lb. Hoist:

##### C308-1443 See Photo E.

All Purpose Bracket (30lb.)

##### E308-1434 See Photo D.

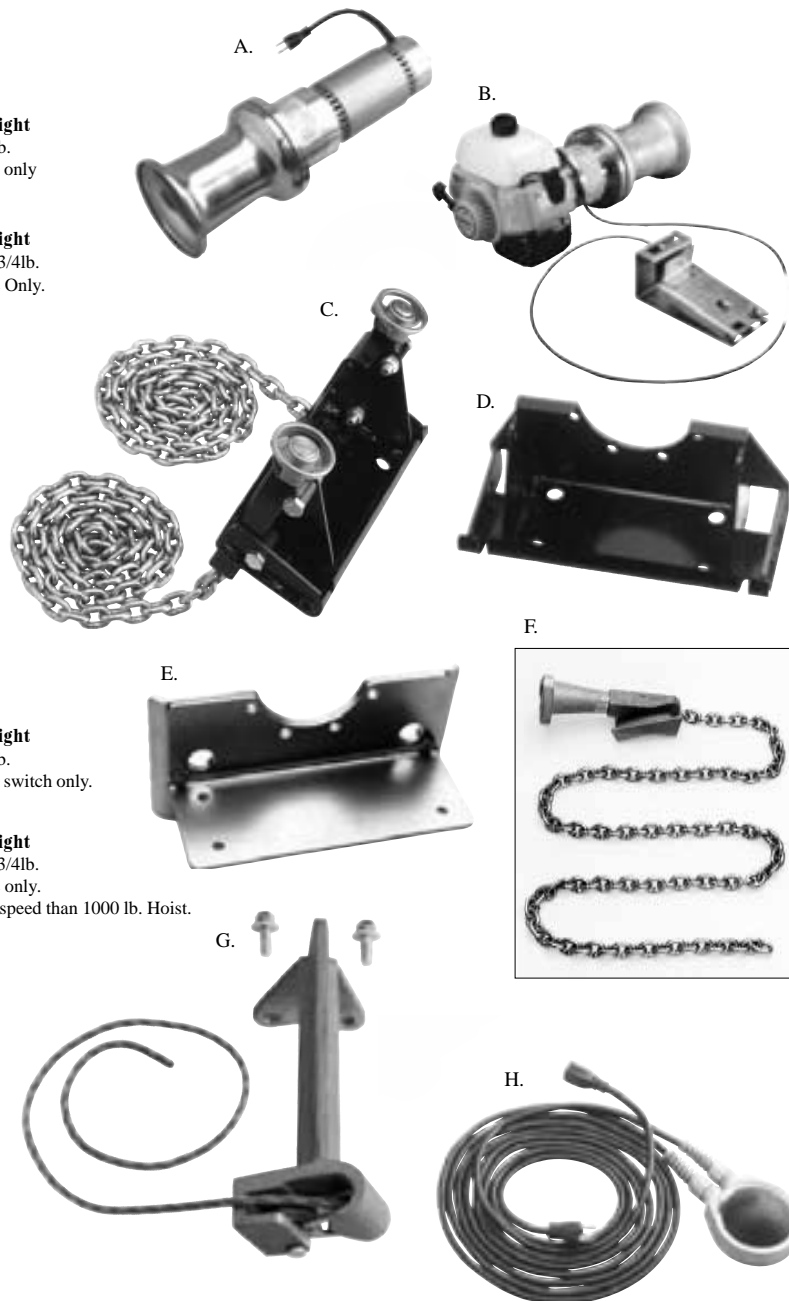
Bolt Down Bracket (15lb.)

##### C308-0856

Rope Lock Device (1 1/2lb.)

##### H. C417-0337

Foot Switch for both 1000lb and 3000lb models.







## Support Grips

### Kellems

#### A. Wire Mesh (Pulling Socks)

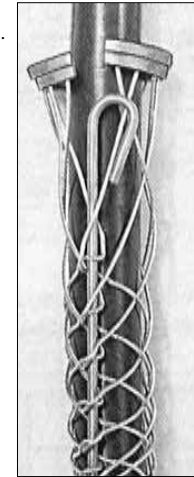
Offset Eye, Closed Mesh Standard support grips for permanent support when cable end is available to be installed through grip.

Model #	Cable Dia. Range (in)	Approx. Break Strength (lbs)	Length (in)
02201037	.50-.62	500	14
02201038	.63-.74	750	14
02201039	.75-.99	950	17
02201041	1.00-1.24	1500	19
02201042	1.25-1.49	1500	20
02201043	1.50-1.74	1500	22
02201044	1.75-1.99	2000	25
02201045	2.00-2.49	3100	30
02201046	2.50-2.99	3100	32
02201047	3.00-3.49	3800	36
02201048	3.50-3.99	3800	38

A.



B.



#### Conduit Riser

Ring type, single weave, tin-coated bronze riser support grips.  
Suitable for schedule 40 conduit only.

B. Model	RR-075	RR-100	RR-125	RR-150	RR-175	RR-200	RR-250	RR-300	RR-350
Cable Sizes (in):	.75-.99	1.00-1.24	1.25-1.49	1.50-1.74	1.75-1.99	2.00-2.49	2.50-2.9	3.00-3.49	3.50-3.99
Length (in)	11	12	13	14	15	16	18	19	21

#### Conduit Sizes (in)

#### Model # and Break Strength

1 1/4	02213003 (1020lb)
1 1/2	02213007 (970lb) • 02213009 (1610lb)
2	02213010 (920lb) • 02213012 (1520lb) • 02213013 (1610)
2 1/2	02213014 (870lb) • 02213016 (1430lb) • 02213017 (1510)
	02213018 (1610) • 02213019 (2150lb)
3	02213020 (820lb) • 02213022 (1340lb) • 02213023 (1400lb)
	02213024 (1490lb) • 02213025 (1990lb) • 02213026 (3260lb)
3 1/2	02213033 (2970lb) • 02213034 (3260lb)
4	02213035 (720lb) • 02213037 (1160lb) • 02213038 (1190lb)
	02213039 (1250lb) • 02213040 (1670lb) • 02213041 (2680lb)
	02213042 (2890lb) • 02213043 (4080lb)
5	02213061 (2170lb) • 02213062 (2860lb) • 02213063 (3130lb)
6	02213071 (1795lb) • 02213072 (2245lb) • 02213073 (2245lb)

C.



#### C. Service Drop Support Grip

Single eye, tin-coated bronze.

Light duty, closed mesh, single weave support grip for permanent support when cable end is available to be installed.

Model	Cable Dia. Range (in)	Approx Break Strength (lb)	Length (in)
02216001	.23-.31	290	6 3/4
02216002	.29-.37	290	9 1/4
02216003	.35-.44	500	10 1/4
02216004	.41-.50	500	10 1/2
02216005	.46-.56	660	11 1/4
02216006	.52-.62	790	13 1/4
02216007	.58-.68	790	13 1/2
02216008	.64-.75	790	13 3/4
02216009	.70-.81	790	14 1/4
02216010	.75-.87	1020	16
02216011	.81-.94	1020	16 1/4
02216012	.87-1.00	1020	16 3/4
02216013	.94-1.06	1020	18
02216014	1.00-1.18	1020	18 1/2
02216015	1.06-1.25	1020	18 1/2



## Pulling Grips

### Kellems

#### Underground Pulling Grips

Rotating eye, k-type pulling grips are made of high strength galvanized steel strand. All grips feature double weave mesh for greater strength and added mesh contact on the cable, to handle longer or heavier pulling jobs.

The forged eye mates easily with a swivel or shackle.

A. Model #	Cable Dia. Range (in)	Rotating Eye Eye Dia. (in)	Approx Break Strength (lb)	Length (in)
03301011	.50-.61	7/8	5600	21
03301012	.62-.74	7/8	6800	21
03301024	.75-.99	1	9600	38
03301025	1.00-1.49	1 3/8	16400	40
03301026	1.50-1.99	1 3/8	16400	41
03301027	2.00-2.49	1 5/8	27200	45
03301028	2.50-2.99	1 7/8	33000	48
03301029	3.00-3.49	1 7/8	41000	49
03301030	3.50-3.99	1 7/8	48000	51
03301031	4.00-4.49	1 7/8	48000	52
03301039	4.50-4.99	1 7/8	48000	68
03301047	5.00-5.99	1 7/8	48000	70
03301045	6.00-6.99	1 7/8	48000	76

B.



A.



#### Overhead Pulling Grips

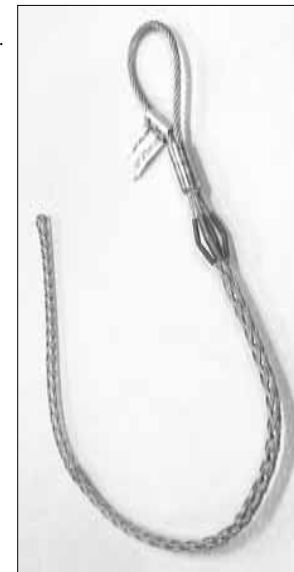
Flexible or rotating eye, triple, double, single weave, galvanized steel.

Multiple strength pulling grips are designed for pulling ACSR, aluminum or copper bare conductor, ground wires, messenger strands, wire rope and insulated cables.

#### B. Grip-Rotating Eye

Model	Cable Dia. Range (in)	Rotating Eye Dia. (in)	Approx Break Strength (lb)	Length (in)
03302016	.25-.49	7/8	6800	31
03302018	.50-.74	1	10000	38
03302020	.75-.94	1	14400	47
03302022	1.00-1.24	1 3/8	24600	60
03302024	1.25-1.49	1 5/8	30600	64
03302026	1.50-1.74	1 7/8	30600	69
03302028	1.75-2.24	1 7/8	48000	80
03302066	2.00-2.49	1 7/8	48000	60
03302097	2.50-2.99	1 7/8	48000	62
033021030	3.00-3.49	1 7/8	48000	64
033021031	3.50-3.99	1 7/8	48000	68

C.



#### C. Grip-Flexible Eye

Model	Cable Dia. Range (in)	A-Eye Dia. (in)	Approx Break Strength (lb)	Length (in)
03302044	.25-.49	1/4	6800	35
03302046	.50-.74	5/16	10000	41
03302048	.75-.94	3/8	14400	52
03302050	1.00-1.24	1/2	24600	64
03302052	1.25-1.49	1/2	30600	68
03302054	1.50-1.74	1/2	30600	72
03302056	1.75-2.24	5/8	48000	88
033021078	2.00-2.49	5/8	48000	68
033021079	2.50-2.99	5/8	48000	70
033021080	3.00-3.49	5/8	48000	72
033021081	3.50-3.99	5/8	48000	76



## Pulling Grips

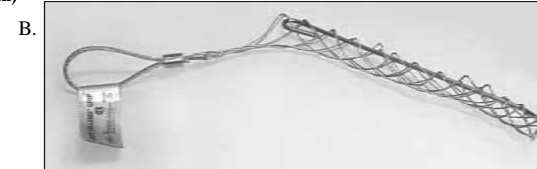
### Kellems

#### Fiber Optic Cable Grips

Galvanized steel for outside plant cable

##### A. Flexible Eye Low Profile

Model	Cable Dia. Range (in)	Approx. Break Strength (lb)	Length (in)
033291193	.10-.22	900	17 1/2
033291194	.21-.35	1400	21 1/2
033291195	.32-.48	2000	27 1/2
033291196	.42-.61	2500	29 1/2
033291197	.53-.74	3000	31 1/2
033291198	.64-.87	4200	33 1/2
033291199	.75-1.00	4200	35 1/2



##### B. Slack Pulling, Split Mesh Rod Closing, Single Weave

Model	Cable Dia. Range (in)	Approx. Break Strength (lb)	Length (in)
033291015	.25-.37	300	7 7/10
033291016	.38-.49	800	8
033291017	.50-.61	800	10 1/2
033291018	.62-.74	1200	11



### Kearney Cumalong

**C. Cumalongs** The exclusive wedge-grip action provides a positive, tight grip on the conductor for non-kinking, in-line pull. Easily installed and removed with a tie stick. All models except 16847 Series include hardened steel rollers for easier opening and positive holding. Wedges are bronze, except 1833-14 (steel) and 130429 (aluminum). Bodies are aluminum except 1833-2 and -3 (bronze).

Model	Conductor Range (in)	Max	Min	Max Working Load(lb)	Replacement Wedge
16847	16847-1	2-7 str.-.292"	8 sol-.128"	2000	16960
1833	1833-1	4/0 ACSR-.563"	8 sol-.128"	4000	1833-14
1833-2	1833-3	4/0 ACSR-.563"	8 sol-.128"	6000	1833-14
1833-4	1833-5	*795 ACSR-1.050"	2 sol-.258"	5500	1833-44
1833-22	1833-21	954 str.-1.126"	4/0 ACSR-.563"	5500	1833-24
	130428	1590 ACSR-1.545"	266.8 str.-.586"	15000	135105-1
	130428-1	1590 ACSR-1.545"	266.8 str.-.586"	4000	130429

\*795 ACSR when diameter of specific stranding does not exceed 1.050"

### Klein

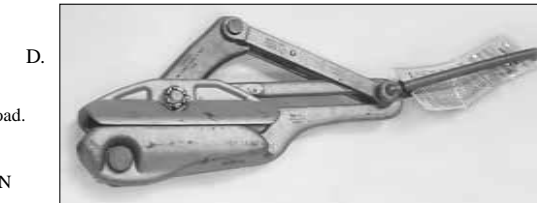
#### D. Chicago/Catch-off

Grips for large diameter conductor. The 1628-50 is furnished with removable floating jaw which allows maximum coverage of cable and minimize conductor damage, particularly under heavy load. Jaw must be removed to insert cable.

YOUR ORDER MUST SPECIFY EXACT OUTSIDE DIAMETER OF CABLES, CIRCULAR MILLS WITH STRAND COMBINATION OR MANUFACTURER'S CODE. EACH GRIP FOR LARGE DIAMETER CABLE IS MADE FOR ONE-SIZE CABLE ONLY.

Model	Minimum Cable (in)	Maximum Cable (in)	Max Safe Load (lb)	Approx Weight	Jaw Length (in)
1628-16P	2 ACSR .31	477,000 CM ACSR .88	15,000	17	7 1/4
1628-30	477,000 CM ACSR .85	1,033,000 CM ACSR 1.24	20,000	27	10 3/4
1628-40	1,033,500 CM ACSR 1.24	1,590,000 CM ACSR 1.54	25,000	34	10 3/4
1628-50	666,600 CM ACSR 1.0	2,500,000 CM Al 1.82	25,000	34	10 3/4

Minimum-Maximum sizes listed indicate the unfinished size-range capability for each model #.  
Maximum safe stringing tension 12,500 lbs to minimize conductor damage.





## Pulling Grips

### Klein

#### A. Grips for bare ACSR, Aluminum, and Stranded Copper cables

Model	Minimum Cable (in)	Maximum Cable (in)	Max Safe Load (lb)	Approx Weight (lb)	Jaw Length (in)
1656-20	6 ACSR	.201/0ACSR .40	4500	3	4
1656-30	2 ACSR	.31 0.53	4500	3 1/4	4 3/4
1656-40	0.53	336,400 CMACSR .74	8000	7 1/2	5 1/2
1656-50	397,500 CMACSR	.74 477,000 CM ACSR .86	8000	7 1/2	5 1/2
1656-60	477,000 CMACSR	.86 605,000 CM ACSR .96	8000	7 1/2	5 1/2

#### B. Grips for Aluminum conductors.

For use on aluminum conductors in distribution work.

Model	Minimum Cable (in)	Maximum Cable (in)	Max Safe Load (lb)	Approx Weight	Jaw Length (in)
1678-20	0.96	1.02	8000	7 1/2	5 1/2
1678-30	1.02	1.08	5500	7 1/2	5 1/2
1678-40	1.08	1.14	5500	7 1/2	5 1/2
1678-50	1.14	1.2	5500	7 1/2	5 1/2

#### C. Grip for bare wire.

A lightweight, especially economic grip for working with solid and stranded bare wire from .08" to .20." Single "V" groove jaw.

Model	Minimum Cable (in)	Maximum Cable (in)	Max Safe Load (lb)	Approx Weight (lb)	Jaw Length(in)
1613-30	12 B&S Solid .08	4 B&S Solid .20	1500	1 1/2	3

#### D. Grips for Weatherproof Wire.

For weatherproof coated wire. Notches in jaw provide firm grip on insulation.

Model #	Minimum Cable (in)	Maximum Cable (in)	Max Safe Load (lb)	Approx Weight (lb)	Jaw Length(in)
1611-20	0.2	0.4	4500	3	4
1611-30	0.31	0.53	4500	3 3/4	4 3/4
1611-40	0.53	0.74	8000	7 3/4	5 1/2
1611-50	0.78	0.88	8000	7 3/4	5 1/2

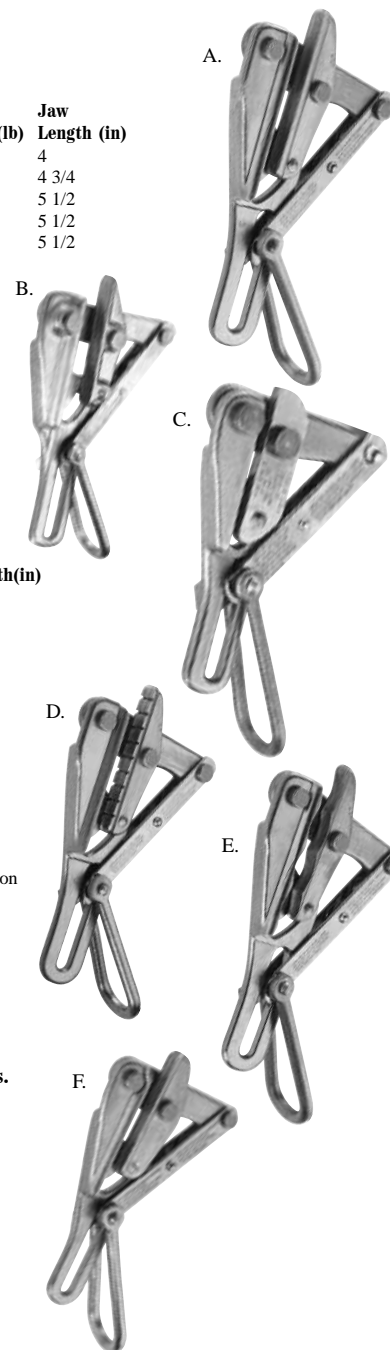
**E. Grips for PVC covered conductors.** Serpentine jaws are specially machined to allow insertion of insulated conductor through the jaws, which reduce danger of slippage which might result in insulation damage. Eliminates necessity of stripping insulation from conductor. Round inside jaw contour.

Model	Minimum Cable (in)	Maximum Cable (in)	Max Safe Load (lb)	Approx Weight (lb)	Jaw Length(in)
1659-20	0.2	0.42	4500	3	4
1659-30	0.31	0.5	4500	3 3/4	4 3/4
1659-40	0.49	0.79	8000	7 3/4	5 1/2
1659-50	0.79	1.01	8000	7 3/4	5 1/2

#### F. Grips 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. For larger conductors, see our grips with round inside-jaw contour.

Model #	Minimum Cable (in)	Maximum Cable (in)	Max Safe Load (lb)	Approx Weight (lb)	Jaw Length(in)
1613-40	0.12	0.37	4500	3	4
1684-5	0.218	0.55	8000	6 1/4	5
1692-50	0.218	0.55	8000	6 3/8	5
1684-5F	0.16	0.55	8000	6 1/4	5
1628-16	0.31	0.62	15000	15 1/2	7 1/4
1628-17	0.5	0.75	15000	17	7 1/4
1628-18	0.75	1	15000	17	7 1/4





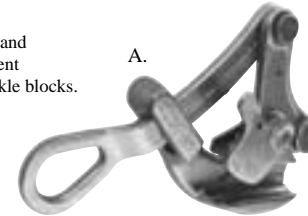
## Pulling Grips

### Klein

#### A. Parallel jaw grips.

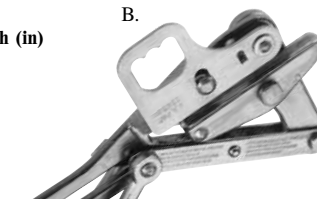
Lightweight, compact and pull an exceptionally wide range of cable sizes and types. Each grip is designed with round-inside jaw contours. The lower jaw is serrated to firmly grip insulated cables and conductors. The design includes a latch that prevents the grip from falling in case of jaw disengagement from the cable, plus a larger diameter eye that accommodates large hooks on hoists, winches, and tackle blocks.

Model	Minimum Cable (in)	Maximum Cable (in)	Max Safe Load (lb)	Approx Weight (lb)	Jaw Length (in)
1685-20	0.157	0.886	4500	3	2.36
1685-30	Discontinued				
1685-31	0.625	1.25	7500	5	4.5



#### B. Hot line grips for bare conductors.

Model	Minimum Cable (in)	Maximum Cable (in)	Max Safe Load (lb)	Approx Weight (lb)	Jaw Length (in)
1613-40H	8 B&S Solid .12	1/0 B&S Strand .37	4500	3 1/4	4
1684-5H	0.218	0.55	8000	6 1/4	5
1656-20H	6 ACSR .20	1/0 ACSR .40	4500	3 1/4	4
1656-30H	2 ACSR .31	0.53	4500	4	4 3/4
1656-40H	0.53	336,400 CM ACSR .74	8000	7 3/4	5 1/2
1656-50H	0.74	0.86	8000	7 3/4	5 1/2
1656-60H	477,000 CM ACSR .86	605,000 CM ACSR .96	8000	7 3/4	5 1/2

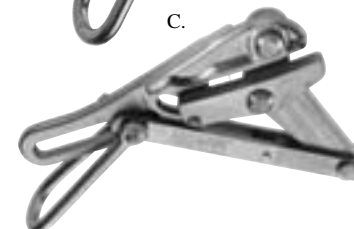


#### C. Curved jaw grips for EHS cable.

The jaws of the grip are milled on a curve with a double "V" contour which reduces the possibility of slippage and damage to extra-high strength galvanized steel cable.

Model	Minimum Cable (in)	Maximum Cable (in)	Max Safe Load (lb)	Approx Weight (lb)	Jaw Length (in)
1684-74	0.218	0.55	8000	6 1/4	5
S1684-74H*	0.218	0.55	8000	6 1/4	5

\*Hot line latch and spring

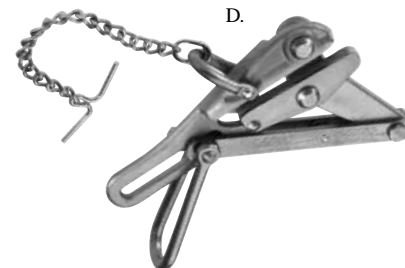


### Klein

#### D. Bell-System type grips.

Equipped with a chain, toggle, and shackle.

Model	Minimum Cable (in)	Maximum Cable (in)	Max Safe Load (lb)	Approx Weight (lb)	Jaw Length (in)
1684-5AT	0.218	0.55	8000	6 1/4	5
1628-16AT	0.31	0.62	15,000	15 1/2	7 1/4
1692-5AT	0.218	0.55	8000	6 3/8	5

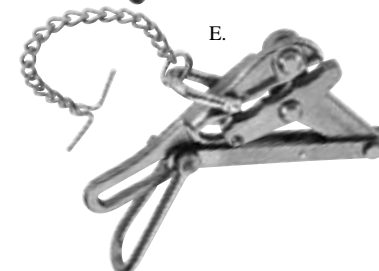


#### E. "Type B" strand puller.

Designed to pull 1/4" figure-8 telephone cable.

Serpentine grooves grip insulation on strand, preventing slippage. Equipped with chain, toggle, and tackle.

Model	Minimum Cable (in)	Maximum Cable (in)	Max Safe Load (lb)	Approx Weight (lb)	Jaw Length (in)
1659-5AT	0.2	0.37	5000	6	5





## Pulling Grips

### Klein

#### A. Long parallel jaw grips.

Longer jaws achieve a firm hold, reducing possibility of slippage and damage to cable. Includes a latch, plus a large diameter eye that accommodates large hooks on hoists, winches, and tackle blocks.

Model	Minimum Cable (in)	Maximum Cable (in)	Max Safe Load (lb)	Approx Weight (lb)	Jaw Length (in)
1686-10	0.2	0.4	10,000	5	4 3/8
1671-10	0.37	0.75	10,000	5	4 3/8
*1686-20	0.2	0.4	10,000	5	4 3/8
*1672-10	0.37	0.75	10,000	5	4 3/8

\*1672-10 is same as 1671-10 but with knurled jaws.  
1686-20 is same as 1686-10 but with knurled jaws.

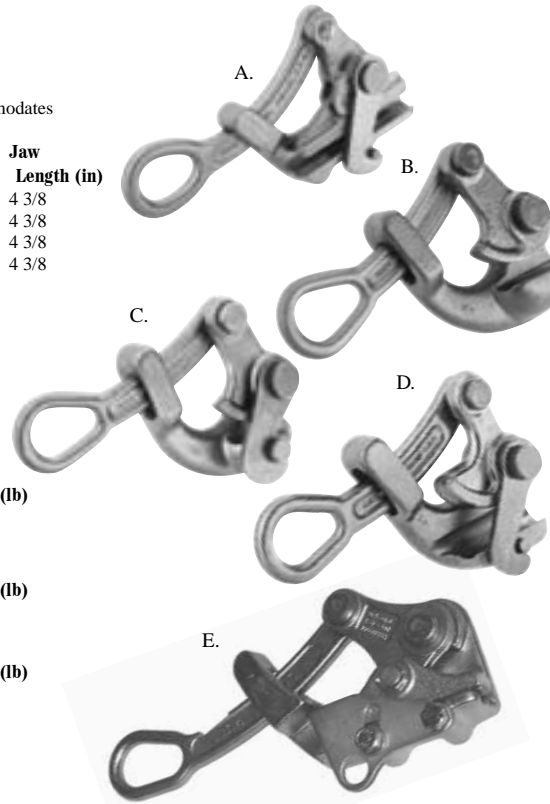
#### B. "Haven" grips.

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 the jaw.

Model	Minimum Cable (in)	Maximum Cable (in)	Max Safe Load (lb)	Approx Weight (lb)
1604-10	14 B&S .06	2 B&S .25	2500	1
1604-20	8 B&S .125	Steel Strand .50	5000	2 1/2

C. Model	Minimum Cable (in)	Maximum Cable (in)	Max Safe Load (lb)	Approx Weight (lb)
1604-20L	8 B&S .125	Steel Strand .50	5000	2 1/2

D. Model	Minimum Cable (in)	Maximum Cable (in)	Max Safe Load (lb)	Approx Weight (lb)
1625-20	1 B&S .28	Wire Rope .75	8000	3 1/2
1625-20	7/80.38	Wire Rope .88	8000	3 1/2
1625-20	10.5	Wire Rope 1.00	8000	3 1/2



### Little Mule

#### E. Wire grips.

Model Number	Type	Capacity (LBS)	Net Weight (LBS)	Open Size				Approx. Eye Opening (in.)
				Minimum Size (in.)	Grip Size (in.)	Maximum Size (in.)	Grip Size (in.)	
LMG1800	Standard Grip Spring Loaded	1000	1/2	.24	18AWG	.394	10AWG	.825 dia.
LMG2800		2000	1	.308	8AWG	.594	40AWG	1 x 1 1/2
LMG4500		5000	3 1/4	.38	6AWG	.80	40AWG	1 1/4 x 1 1/4
LMG4800		10000	4 1/2	.30	1AWG	.80	45BMC	1 1/4 x 1 1/4
LMG4800		12000	8	.70	36TMC	1.25	113BMC	1 1/4 x 1 1/4
LMG4700	Hot Line Grip Spring Loaded Notched Handle	20000	21	.70	36TMC	1.25	113BMC	2 1/2 x 2 1/2
LMG4501		5000	3 1/4	.38	8AWG	.80	40AWG	1 1/4 x 1 1/4
LMG4801		10000	4 1/2	.30	1AWG	.80	45BMC	1 1/4 x 1 1/4
LMG4801		12000	8	.70	36TMC	1.25	113BMC	1 1/4 x 1 1/4
LMG4701		20000	21	.70	36TMC	1.25	113BMC	2 1/2 x 2 1/2
LMG4502	Hot Line Grip No Spring No Notch	5000	3 1/4	.38	8AWG	.80	40AWG	1 1/4 x 1 1/4
LMG4802		10000	4 1/2	.30	1AWG	.80	45BMC	1 1/4 x 1 1/4
LMG4802		12000	8	.70	36TMC	1.25	113BMC	1 1/4 x 1 1/4
LMG4702		20000	21	.70	36TMC	1.25	113BMC	2 1/2 x 2 1/2

1. Note: 1000 and 2000 Lb. Models Have Bulldog Type Jaw. All Other Models Have Facet Jaw.

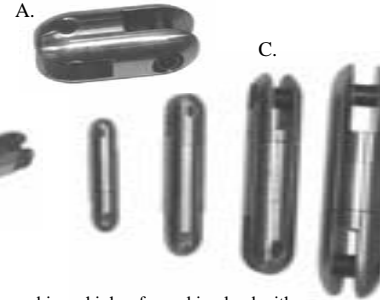


## Swivels

### DCD Overhead & URD

**A. Can-Link Connector** The 00520 connector is used to connect two items with lugs or wire loop fittings. A common use is to connect a wire mesh grip to the pulling wire. The connectors are manufactured from high strength stainless steel with hardened clevis pins. The two smaller sizes have slotted clevis pins, while the larger sizes have hexagon clevis pins. \*Safety factor of 3:1 (horizontal pull only).

Part	Safe Working Load	Dia.	Length	Weight	Clevis Pin
00520-010	2500lb.	7/8"	2 1/8"	.19lb.	00010-SLT
00520-020	5000lb.	1 1/4"	2 7/8"	.50lb.	00020-SLT
00520-027	9000lb.	1 1/2"	3 3/8"	.80lb.	00025-HEX
00520-035	15000lb.	2"	4 9/16"	2.0lb.	00035-HEX



### HighLine

#### B. HighLine Breakaway Swivel

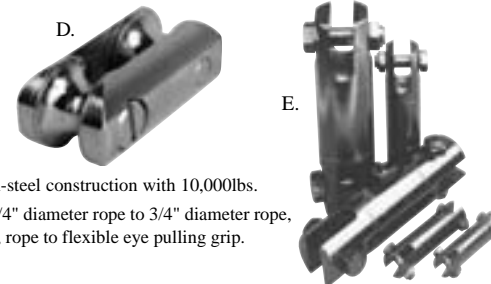
Part	Safe Working Load	Length	Weight
HL5/8 600	600lb.	3 1/4"	.17lb.
HL7/8 1000	1000lb.	4 1/16"	.42lb.
HL1.25 1800	1800lb.	5 9/16"	1.20lb.



#### C. HighLine "Line Swivel"

Constructed with a thrust bearing for tensile load and a radial bearing for bending load. They combine a high safe working load with a compact design. All sizes incorporate an oil seal and are manufactured from high strength stainless steel. 3:1 safety factor and are fully capable of rotation at full working load.

Part	Safe Working Load	Dia.	Length	Weight
HL2250	2250lb.	7/8"	3 3/8"	.34lb.
HL5000	5000lb.	1 1/4"	4 3/4"	1.0lb.
HL10000	10000lb.	1 5/8"	6"	2.1lb.
HL15000	15000lb.	2"	7"	3.8lb.



### Condux Swivel Accessories

**D. 08091200** Versatile clevis provides efficient link for several applications. All-steel construction with 10,000lbs.

Load capacity. Combinations of sheaves and pins allow following connections: 3/4" diameter rope to 3/4" diameter rope, rope to forged eye pulling grip, forged eye pulling grip to forged eye pulling grip, rope to flexible eye pulling grip.

### Directional Drilling

**E. Drill Directional Swivels** Designed specifically for directional drilling, the Condux 819 D. Drill swivels prevent boring equipments' rotational torque from interfering with the product (cable or conduit) being pulled. The D. Drill Swivels are greasable and double sealed to keep contaminants out. Clevis pins with hex nuts allow for installation and removal from either side of the swivel.

There is a 90 day warranty on the directional drill swivels. \*\*Condux requires the use of a calcium based lubricant only.\*\*

Part	Tension lbs.	Compression lbs.	A	B	C	D	E	F	G
08190016	8500	2800	1 5/8"	.63"	6.85"	1.59"	.56"	.78"	2.36"
08190020	10000	3300	2"	.75"	7.83"	1.81"	.63"	.75"	2.89"
08190025	20000	6600	2 1/2"	1.00"	10.93"	2.84"	.88"	1.25"	3.67"
08190030	30000	10000	3"	1.31"	12.75"	3.56"	1.13"	1.37"	4.50"
08190040	45000	15000	4"	1.63"	15.25"	4.00"	1.25"	1.84"	5.58"
08190045	60000	20000	4 5/8"	1.75"	17.48"	4.62"	1.50"	2.13"	6.31"
08190060	90000	30000	6"	2.00"	18.27"	4.50"	1.75"	2.18"	6.59"
08190080	120000	40000	8"	2.25"	21.71"	5.25"	2.00"	2.50"	8.25"

**F. Replacement Parts.** D. Drill swivel rebuild kits allow the swivel to be rebuilt by the user if bentonite gets past the seals and damages the bearings. Kits includes 4 bearings, 2 seals, a roll pin, a setscrew, a grease zerk and instructions. Individual replacement clevis pins and clevis pin locking nuts are also available.

Swivel Size	Rebuild Kit	Clevis Pin	Locking Nut	Rebuild Tool
1 5/8"	08190001	08190104	02250500	-
2"	08190002	08190114	02250600	-
2 1/2"	08190003	08190124	02250700	-
3"	08190004	08190134	02250800	-
4"	08190008	08190154	02263000	-
4 5/8"	08190005	08190144	02250900	-
6"	08190006	08190164	02251000	08190168
8"	08190009	08190167	02279000	08190188





## Underground Tools & Accessories

### Jameson Rodders

#### A. Little Buddy Fish Tape

Ideal for handling a wide variety of jobs. At 3/16" outside diameter, this fish tape is available in lengths from 150 to 300 feet. Good for jobs like running inside and outside conduit drops. Also ideal for home drops from the hand-hole box to the house or building, and even light pole, control wiring, and walker ducts. Operates vertically or horizontally, and offers a drag brake to control payout.

Models	Description
10-316-150	150' x 3/16" fish tape
10-316-200	200' x 3/16" fish tape
10-316-250	250' x 3/16" fish tape
10-316-300	300' x 3/16" fish tape
10-316-AK	Standard accessory kit
10-140	Splice repair kit
10-146	End ferrule repair kit
10-160	Pulling eye
10-162	Large flexible pushing/pulling tip
10-163	Small flexible pushing tip

A.



#### B. Wee Buddy Fish Tape

Plays a big role in inside wiring jobs in occupied conduit where a flat tape tends to wrap around existing wire or cable. The round, slick sheath of the Wee Buddy slides more easily over the existing wires, especially at bends. Can fish conduit as small as 1/2" inside diameter.

Models	Description
8-18-50	50' x 1/8" fish tape
8-18-50K	50' x 1/8" fish tape w/accessory kit
8-18-100	100' x 1/8" fish tape
8-18-100K	100' x 1/8" fish tape w/accessory kit
8-18-150	150' x 1/8" fish tape
8-18-150K	150' x 1/8" fish tape w/accessory kit
8-18-AK	Standard accessory kit
8-140	Splice repair kit
8-146	End ferrule repair kit
8-160	Pulling eye
8-162	Flexible spring leader

B.



#### C. Good Buddy Rodder

For the larger jobs that still require some measure of portability. Designed especially for manhole-to-riser and riser-to-riser jobs, but is also perfect for cable vaults and running larger conduit in buildings. Vertical and horizontal swiveling allow the unit to be ideally positioned in confined areas. Designed to fish conduit ranging from 2" to 4," and has a drag brake to control payout. Available with foot or meter markings.

Models	Description
9-25-300	300' x 3/8" rodder
9-25-300M	300' x 3/8" rodder marked (5' increments)
9-25-400	400' x 3/8" rodder
9-25-400M	400' x 3/8" rodder marked (5' increments)
9-25-AK	Standard accessory kit
9-140	Splice repair kit
9-146	End ferrule repair kit
9-139	Swivel eye
9-141	Roller guide
9-143	Swivel coupling
9-148	Rod grapple set
11-142	Shackle fitting
9-25-12ST	12" stinger tip

C.







## Underground Tools & Accessories

### Jameson Rodders

**A. Good Buddy II Rodder** Same as Good Buddy rodder but with longer rod lengths, and the reel is only 38" in diameter.

Models	Description
11A-25-400	400'x3/8" rodder
11A-25-400M	400'x3/8" rodder marked (5' increments)
11A-25-500	500'x3/8" rodder
11A-25-500M	500'x3/8" rodder marked (5' increments)
11A-25-600	600'x3/8" rodder
11A-25-600M	600'x3/8" rodder marked (5' increments)
9-25-AK	Standard accessory kit
9-140	Splice repair kit
9-146	End ferrule repair kit
9-139	Swivel eye
9-141	Roller guide
9-143	Swivel coupling
9-148	Rod grapple set
11-142	Shackle fitting
9-25-12ST	12" stinger tip
9-25-24ST	24" stinger tip

A.



B.



**B. Big Buddy Rodder.** Heavy duty rodder designed for up to 4" inside diameter or larger. Perfect for manhole-to-manhole or long run cable pulls. Operates vertically or horizontally, and with a drag brake. Stores easily in small vans.

Model	Description	Model	Description
11-38-500	500'x1/2" rodder	11-38-RK	Standard accessory kit
11-38-500M	500'x1/2" rodder marked (5' increments)	11-140	Splice repair kit
11-38-600	600'x1/2" rodder	11-146	End ferrule kit
11-38-600M	600'x1/2" rodder marked (5' increments)	11-139	Swivel eye
11-38-800	800'x1/2" rodder	11-141	Roller guide
11-38-800M	800'x1/2" rodder marked (5' increments)	11-142	Shackle fitting
11-38-1000	1000'x1/2" rodder	11-143	Swivel coupling
11-38-1000M	1000'x1/2" rodder marked (5' increments)	11-148	Rod grapple set
		11-25-6ST	6' stinger tip
		11-25-8ST	8' stinger tip

C.



### Condux

**C. Duct Rodders.** Sturdy construction and a hand operated wheel brake. They can be used on their sides as well as upright. Equipped with a threaded end fitting on each end, plus a tapered head on the outward end.

#### 3/16" Mini-Cobra Rodder #12-24 End Fitting 16" Cage

Part	Length (ft)	Part	Length (ft)
08072405	50	8072420	200
08072410	100	872425	250
08072415	150	8072430	300

#### 1/4" Mini-Cobra Rodder 5/16" End Fitting 24" Cage

Part	Length (ft)	Part	Length (ft)
08072510	100	8072535	350
08072515	150	8072540	400
08072520	200	8072545	450
08072525	250	8072550	500
08072530	300	8072555	550
		8072560	600

#### 5/16" Cobra Rodder

Part	Length (ft)	Part	Length (ft)
08083720	200	08083755	550
08083725	250	08083760	600
08083730	300	08083765	650
08083735	350	08083770	700
08083740	400	08083775	750
08083745	450	08083780	800
08083750	500	08083790	900
		08083710	1000

#### 7/16" Cobra Rodder

Part	Length (ft)	Part	Length (ft)
08083820	200	08083870	700
08083825	250	08083875	750
08083830	300	08083880	800
08083835	350	08083890	900
08083840	400	08083810	1000
08083845	450	08083811	1100
08083850	500	08083812	1200
08083855	550	08083813	1300
08083860	600	08083814	1400
08083865	650	08083815	1500



## Underground Tools & Accessories

### Condux

#### A. Flexible Steel Mandrel

Steel discs in graduated sizes makes this mandrel ideal for removing obstructions in duct with extreme bends. 7,000 lbs load capacity.

#### B. Duct Rodders

Part	Duct Size	Body Length	Max O.D.
08021700	2 in	7.31 in	1.75 in
08021925	2 1/2 in	11.25 in	2.25 in
08021800	3 in	11.25 in	2.75 in
08049400	3 1/2 in	11.25 in	3.25 in
08021900	4 in	11.25 in	3.75 in
08058900	5 in	11.25 in	4.75 in
08059000	6 in	11.25 in	5.75 in
08079500	8 in	11.25 in	7.75 in

#### C. Rubber Duct Swab

Ideal for cleaning and assisting in the spreading of a lubricant throughout the duct. 7,000 lbs load capacity.

Part	Duct Size	Body Length	Max O.D.
08028820	2 in	10 in	2 in
08028830	3 in	10 in	3 in
08028700	3 1/2 in	10 in	3 1/2 in
08028800	4 in	10 in	4 in
08058700	5 in	10 in	5 in
08058800	6 in	10 in	6 in
08022880	8 in	10 in	8 in

#### D. Wire Brush Mandrel

Flat steel bristles with a pulling eye on one end and a loop on the other end. Easily removes sand, grit and other light obstructions from the duct. 800 lbs load capacity.

Part	Duct Size	Body Length	Max O.D.
08028904	1 1/4 in	4.25 in	1 in
08028905	1 1/2 in	4.25 in	1.25 in
08028900	2 in	4.25 in	1.75 in
08046000	2 1/2 in	4.25 in	2.25 in
08067100	3 in	5.50 in	2.75 in
08067200	3 1/2 in	5 in	3.25 in
08029000	4 in	6.75 in	3.75 in
08029100	5 in	6.50 in	4.75 in
08068100	6 in	6.75 in	5.75 in
08029080	8 in	4.75 in	7.75 in

#### E. Line Carriers

Fast and efficient plastic carriers for fishing with high-speed blowers even in out-of-round duct. Carrier will travel over minor obstructions in duct.

Part	Duct Size	Max O.D.
067900	2 in	2.06 in
08030100	3 in	3.06 in
08030200	3 1/2 in	3.56 in
08030300	4 in	4.06 in
08030400	5 in	5.06 in
08030500	6 in	6.06 in

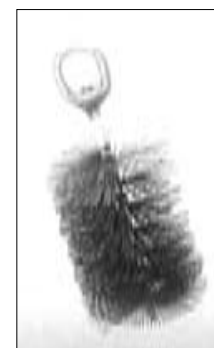
A. B.



C.



D.



E.





## Underground Tools & Accessories

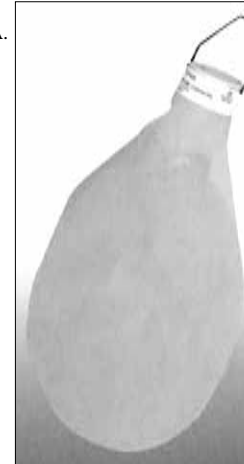
### Condux

#### A. Inflatable Carriers

Rip-stop nylon bag conforms to cable-occupied ducts. One carrier can be used in a variety of duct sizes or when the duct size changes throughout the run. Easy to pull back.

Part	Duct Size
08032700	3/4"-1 1/4"
08032800	1 1/2"-2 1/2"
08031600	3"-4"
08031700	4"-6"

A.



#### B. Duct Projectile

Flexible rubber cones are durable for many repeated uses. Fast and efficient for long runs with easy pull back.

Part	Duct Size	Max O.D.
08031812	1 1/4"	1.25"
08031814	1 3/8"	1.37"
08031815	1 1/2"	1.50"
08031816	1 5/8"	1.62"
08031820	2"	2"
08031822	2 1/4"	2.20"
08031825	2 1/2"	2.50"
08031830	3"	3"
08031835	3 1/2"	3.50"
08031840	4"	4"
08031844	4 1/4"	4.25"
08031846	4 1/2"	4.51"
08031850	5"	5"
08031860	6"	6"
08031880	8"	8"

B.



#### C. 08032165

Universal seal-off control valve.

Used with the innerduct seal-off, conduit seal-off, and double seal-off. Use the interchangeable heads for the style and size needed. Comes equipped with an air flow valve and a universal hose coupling for attachment to most compressors. 3/16" rope adapter included.

C.



#### D. Rope Adapter Kit

Allows a wider range of rope diameters to be used with the innerduct and compressor seal-offs.

Part	Nominal Duct Size
08032181	Adapter kit for conduit seal-offs
08032190	3/16" rope adapter
08032191	1/4" rope adapter
08032170	3/8" rope adapter

D.

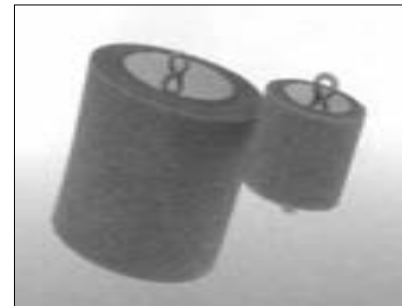


#### E. Foam Carrier

Lightweight carrier easily blows through duct. Best suited for short runs and runs with multiple bends.

Part	Duct Size	Max O.D.
08078200	1/2"	.50"
08078300	3/4"	.75"
08032200	1"	1"
08032300	1 1/4"	1.25"
08039800	1 1/2"	1.50"
08032400	2"	2"
08078400	2 1/2"	2.50"
08032500	3"	3"
08032100	3 1/2"	3.50"
08032600	4"	4"
08059100	5"	5"
08059200	6"	6"

E.





## Underground Tools & Accessories

### Condux

#### A. Individual Conduit Seal-Offs

Part	Nominal Duct Size	Duct I.D. Range
08032900	2"	1.93"-2.36"
08032905	2 1/2"	2.40"-2.76"
08032910	3"	2.87"-3.31"
08032915	3 1/2"	3.50"-3.75"
08032920	4"	3.54"-4.25"
08032925	5"	4.72"-5.37"
08032930	6"	5.50"-6.29"
08032935	8"	7.83"-8.27"

#### B. Individual Double Seal-Offs

Part	Nominal Duct Size	Duct I.D. Range
08032940	2"	1.93"-2.36"
08032945	2 1/2"	2.40"-2.76"
08032950	3"	2.87"-3.31"
08032955	3 1/2"	3.50"-3.75"
08032960	4"	3.54"-4.25"
08032965	5"	4.72"-5.37"
08032970	6"	5.50"-6.29"
08032975	8"	7.83"-8.27"

#### C. Individual Innerduct Seal-Offs

Part	Nominal Duct Size	Duct I.D. Range
08034315	1"	.93"-1.19"
08034316	1 1/4"	1.18"-1.44"
08034317	1 1/2"	1.31"-1.69"
08034318	2"	1.93"-2.31"

### Greenlee

#### D. Steel Fish Tapes

Large handle grip, self-tensioning case for easy winding.

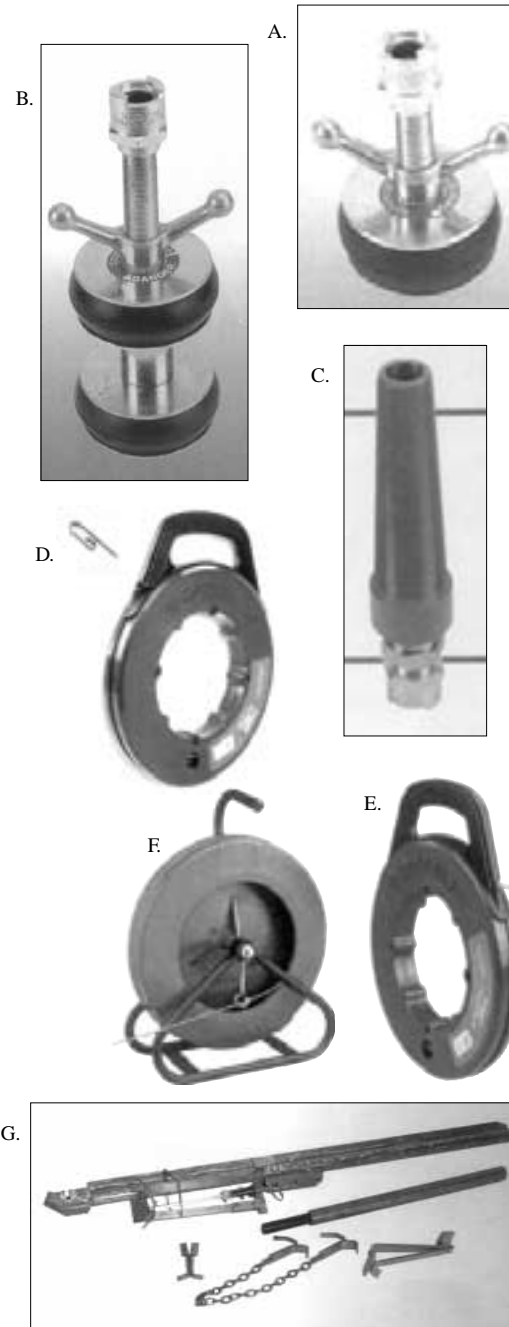
Part	Description
438-10	100' x 1/8" x .60" steel fish tape in winder case
438-20	200' x 1/8" x .60" steel fish tape in winder case

#### Fiberglass Fish Tape

Part	Description
<b>E.</b> 540-50	50' x 1/8" fiberglass fish tape in winder case
540-100	100' x 1/8" fiberglass fish tape in winder case
542-150	150' x 3/16" fiberglass fish tape in reel stand
<b>F.</b> 542-200	200' x 3/16" fiberglass fish tape in reel stand
542-250	250' x 3/16" fiberglass fish tape in reel stand

#### G. 8025000

Manhole cover and grate remover kit. Contains cantilever with tripod, 2ft handle extension, center hole attachment, edge hole chain attachment, concealed pick hole attachment, and bag for attachments.





## Underground Tools & Accessories

### Condux

#### A. 8030003

110v power dart blower. This unit is a pneumatic rodding system especially suited for long duct runs. A three-motor system allows you to choose the right speed for your needs. Will easily blow 1/2" poly line or measuring tape over 2,000ft in conduit up to 6 inches in diameter. Includes 110v blower unit, hose, body seal-off, and seal-offs for 1/2" to 6."

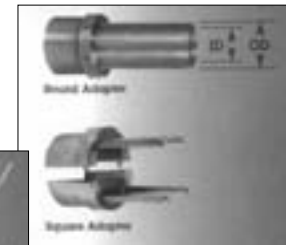
#### B. Steel Duct Adapters

Part	Duct Adapter Dia.	Duct Size Style	O D	ID
8040300	4"	3"Round	2.93"	2.68"
8040400	4"	3 1/4"Round	3.06"	2.81"
8040600	4"	3 1/2"Round	3.43"	3.18"
8040800	4"	4"Round	3.81"	3.62"
8087200	4"	5"Round	4.81"	4.63"
8040900	5"	4"Round	3.87"	3.69"
8041300	5"	5"Round	4.81"	4.62"
8041200	5"	6"Round	5.81"	4.62"
8087000	6"	5"Round	4.81"	4.62"
8086800	6"	6"Round	5.81"	5.62"
8040133	4"	3 1/4"Square	-	2.81"
8040136	4"	3 1/2"Square	-	3.25"
8040142	4"	4"Square	-	3.62"

A.



B.



### Condux Feeding Sheaves

#### C. 08045000 Mini Corner Cable Guide

Features two hardened steel rollers that guide steel winch line over sharp edges. It is small but sturdy, allowing for easy handling and set-up along with duty capacities. 10,000 lbs. cable tension load capacity.

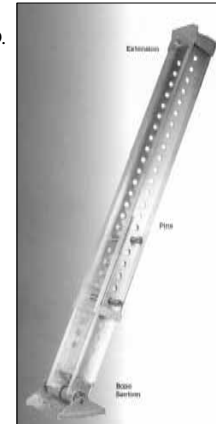
C.



#### D. Jamb Skid

For supporting sheaves or quadrant blocks inside a manhole to pull cable into underground conduit. Can be placed anywhere within a 360 degree radius inside the manhole. Constructed of solid aluminum, is both strong and lightweight. Accepts all Condux sheaves up through 8." 10,000 lbs. cable tension load rated.

D.



Part	Description	Manhole Height Range
8097000	46" base section with locking units	
8097001	43" extension	49"-80"
8097002	76" extension	78"-109"
8097003	109" extension	107"-138"

#### E. Cable Feeding Sheaves

Plugs into conduit in manhole wall, guiding cable safely into the conduit regardless of the pulling angle. Replacement sheaves available.

Part	Size	Insert Sleeve Size	ID	O D	Load Capacity
8617215	1 1/2"	1.04"	1.25"	1.44"	1500 lb
8617220	2"	1.38"	1.75"	1.95"	2600 lb
8617225	2 1/2"	1.44"	2.16"	2.4"	2600 lb
8617230	3"	2.25"	2.62"	2.95"	4800 lb
8617235	3 1/2"	2.75"	3"	3.38"	4800 lb
8617200	4"	3"	3.5"	3.95"	6500 lb
08617340*	4"	3"	3.25"	3.65"	6500 lb
8617250	5"	3.75"	4.5"	4.9"	6500 lb
8617260	6"	4.5"	5.37"	5.9"	6500 lb
08617360*	6"	4.5"	5"	5.56"	6500 lb
8617280	8"	6"	7.18"	7.94"	6500 lb

\* Fits sch 80 pipe

E.





## Underground Tools & Accessories

### Greenlee

#### A. Feeding Sheaves

Yoke frame slides into the end of conduit and holds sheave, allowing the cable being fed into the conduit to smoothly roll over the sheave. 5" wide aluminum alloy sheave with self lubricating bearings. Split tube for easy removal after cable is installed.

Part	Description
441-2	Feeding sheave for 2" conduit
441-2-1/2	Feeding sheave for 2 1/2" conduit
441-3	Feeding sheave for 3" conduit
441-3-1/2	Feeding sheave for 3 1/2" conduit
441-4	Feeding sheave for 4" conduit
441-5	Feeding sheave for 5" conduit

#### B. Hook Type Sheaves

Forged steel closure type hooks with 1" opening.  
5" wide aluminum alloy sheaves  
with self lubricating bearings.

Part	Description
650	6" dia hook sheave with 1 1/2" minimum radius
651	12" dia hook sheave with 3 5/16" minimum radius
652	18" dia hook sheave with 7" minimum radius
653	24" dia hook sheave with 9 13/16" minimum radius



### Ensley Feeding Sheaves

#### C. Breakaway Hook Type Sheaves

Side hinge opens easily to install or remove additional cables. No loose pieces, built in cable guides to prevent cable slipping off sheave. Flat bottom allows breakaway sheave to be used as cross-arm sheave.

Part	Trade Size	Actual OD	Weight
E-806B	6"	6"	15 lb.
E-812B	12"	10 5/8"	27 lb.
E-818B	18"	18 1/4"	43 lb.
E-824B	24"	24"	58 lb.
E-817BW	34"	34 1/2"	110 lb.

### Condux Cable Pullers

#### D. Multiple Pulling Harness

Allows staggered attachment to cable or innerduct when pulling through conduit systems or during directional drilling pull back operations. Choice of steel cable or chains (varies by model).

Part	Description	Working Load per Leg	Combined Working Load	Max Width	Separation Between Legs	Lead Ring Dia.	Leg Dia.
08549200	3 way 1/8" cable	550 lb	1600 lb	2.25"	14"	.37"	.12"
08549230	3 way 1/4" cable	1400 lb	2900 lb	3"	14"	.5"	.25"
08549325	4 way 1/4" cable	1400 lb	4200 lb	3.75"	14"	.62"	.25"
08569910	5 way 1/4" cable	1400 lb	4200 lb	3.75"	14"	.62"	.25"
08549326	6 way 1/4" cable	1400 lb	4200 lb	3.75"	14"	.63"	.25"
08549333	3 way 3/8" cable	4800 lb	9000 lb	2.63"	10"	.62"	.38"
08549329	4 way 3/8" cable	4800 lb	9000 lb	2.63"	10"	.62"	.38"
08549330	10 way 3/8" cable	4800 lb	6000 lb	4.5"	6"	.75"	.38"
08549334	12 way 3/8" cable	4800 lb	6000 lb	4.5"	6"	.75"	.38"
08549342	16 way 3/8" cable	4800 lb	6000 lb	4.5"	6"	.75"	.38"
08549331	2 way 1/2" cable	7000 lb	10000 lb	2.5"	12"	.5"	.5"
08549332	3 way 1/2" cable	7000 lb	15000 lb	3.75"	12"	.87"	.5"
08549340	4 way 1/2" cable	7000 lb	15000 lb	3.75"	12"	.87"	.5"



## Underground Tools & Accessories

### CableGlider STD

**08610650** 110 Volt Standard Cable Puller

**08678025** 220 Volt Standard Cable Puller (for export only)

(International orders must specify plug type)

**WARNING:** CableGlider cable pullers are not to be used as a hoist or for lifting, supporting or transporting people or loads.

### Complete Pulling Packages For CableGlider STD

Condux pulling packages offer cost savings and ordering convenience.

**08674389 CableGlider STD (Package 1)**

- 110 Volt Puller with accessories
- Standard Extension frame
- 600 ft. (183 m) of 7/8" (22 mm) double-braided rope
- Floor/Conduit/Pole Mount Frame
- 5" (127 mm) & 6" (152 mm) adapters w/retaining fork
- Running Line Tensiometer

**08674388 CableGlider STD (Package 2)**

- All items in package 1 plus:
- Chart Recorder for Running Line Tensiometer

**08610686 CableGlider STD (Package 3)**

- All items in package 1 with:
- Amp-type Tensiometer (replaces RLT)

**08674825 CableGlider STD (Package 4) (for export only)**

- 220 Volt Puller with accessories (above)
- Standard Extension Frame
- 600 ft. (183 m) of 7/8" (22 mm) double-braided rope
- Floor/Conduit/Pole Mount frame
- 5" (127 mm) & 6" (152 mm) adapters w/retaining fork
- Running Line Tensiometer

**08674820 CableGlider STD (Package 5) (for export only)**

- All items in package 4 plus:
- Chart Recorder for Running Line Tensiometer

**08674830 CableGlider STD (Package 6) (for export only)**

- All items in package 4 with:
- AMP-type Tensiometer (replaces RLT)



**CableGlider STD Package 2**

#### SPECIFICATIONS

PULLING FORCE	Low Speed		High Speed	
	lbs	kN	lbs	kN
Maximum	6,500	28.9	3,500	15.6
Continuous	4,000	17.8	2,000	8.9
PULLING SPEED	ft/min	m/min	ft/min	m/min
No Load	17.5	5.3	39.2	12.0
At 2,000 lbs (8.9 kN)	13.5	4.1	18.8	5.7
At 4,000 lbs (17.8 kN)	9.5	2.9		
At 6,000 lbs (26.7 kN)	7.0	2.1		

#### Power Requirements

08674300 115 VAC @ 10 Amps

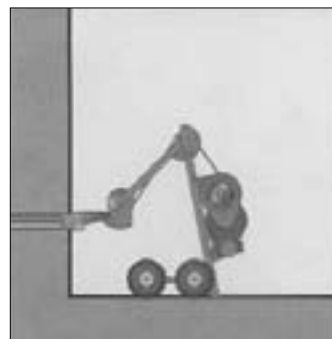
08678050 220 VAC @ 5 Amps

PEAK POWER 1.9 HP (1.42 kW)

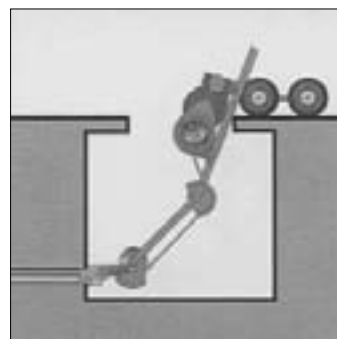
GENERATOR 4000 Watt Recommended. 2500 Watt Minimum

NOTE: Use of less than the recommended wattage generator may effect the pulling specifications listed above.

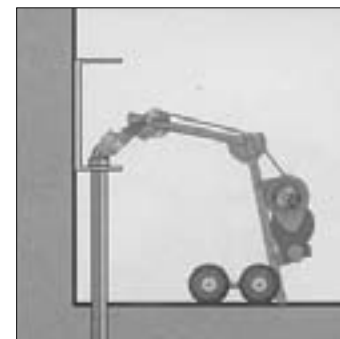
### CableGlider STD Typical Applications



**Horizontal Pull**



**Horizontal Vault Pull**



**Vertical Pull With 45 Elbow**



## Underground Tools & Accessories

### CableGlider Plus

**08674300** 110 Volt Plus Cable Puller

**08678050** 220 Volt Plus Cable Puller (for export only)  
(International orders must specify plug type)

**WARNING:** CableGlider cable pullers are not to be used as a hoist or for lifting, supporting or transporting people or loads.

### Complete Pulling Packages For CableGlider Plus

Condux pulling packages offer cost savings and ordering convenience.

#### 08674392 CableGlider Plus (Package 1)

- 110 Volt Puller with accessories
- HD Extension Frame
- 600 ft. (183 m) of 7/8" (22 mm) double-braided rope
- Floor/Conduit/Pole Mount Frame
- 5" (127 mm) & 6" (152 mm) adapters w/retaining fork
- Running Line Tensiometer

#### 08674391 CableGlider Plus (Package 2)

- All items in package 1 plus:
- Chart Recorder for Running Line Tensiometer

#### 08674386 CableGlider Plus (Package 3)

- All items in package 1 with:
- Amp-type Tensiometer (replaces RLT)

#### 08674840 CableGlider Plus (Package 4) (for export only)

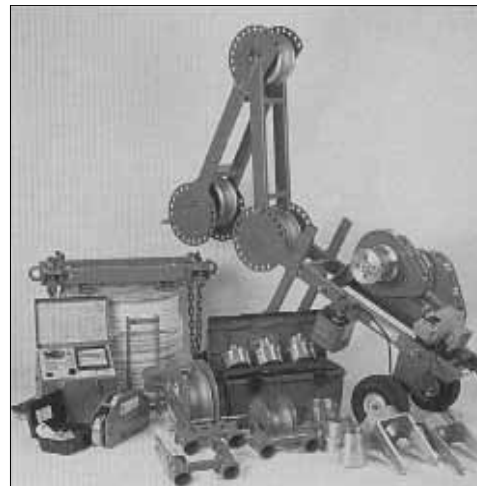
- 220 Volt Puller with accessories
- HD Extension Frame
- 600 ft. (183 m) of 7/8" (22 mm) double-braided rope
- Floor/Conduit/Pole Mount Frame
- 5" (127 mm) & 6" (152 mm) adapters w/retaining fork
- Running Line Tensiometer

#### 08674835 CableGlider Plus (Package 5) (for export only)

- All items in package 4 plus:
- Chart Recorder for Running Line Tensiometer

#### 08674845 CableGlider Plus (Package 6) (for export only)

- All items in package 4 with:
- Amp-type Tensiometer (replaces RLT)



CableGlider Plus Package 2

### SPECIFICATIONS

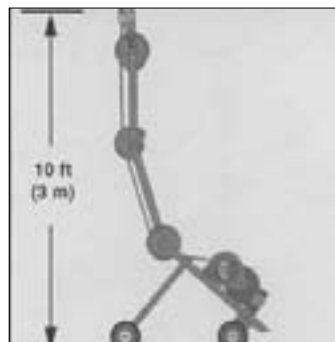
	Low Speed		High Speed	
PULLING FORCE	lbs	kN	lbs	kN
Maximum	6,500	28.9	3,500	15.6
Continuous	4,000	17.8	2,000	8.9
PULLING SPEED	ft/min	m/min	ft/min	m/min
No Load	17.5	5.3	39.2	12.0
At 2,000 lbs (8.9 kN)	13.5	4.1	18.8	5.7
At 4,000 lbs (17.8 kN)	9.5	2.9		
At 6,000 lbs (26.7 kN)	7.0	2.1		

### Power Requirements

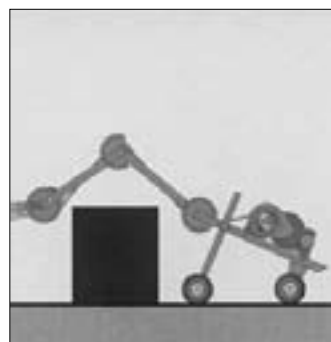
08674300	115 VAC @ 10 Amps
08678050	220 VAC @ 5 Amps
PEAK POWER	1.9 HP (1.42 kW)
GENERATOR	4000 Watt Recommended. 2500 Watt Minimum

NOTE: Use of less than the recommended wattage generator may effect the pulling specifications listed above.

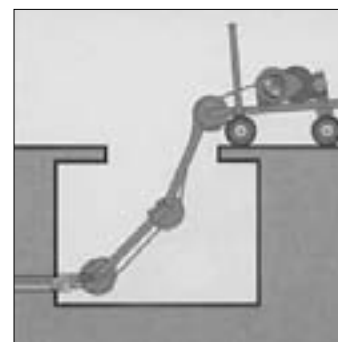
### CableGlider Plus Typical Applications



Vertical Overhead Pull



Horizontal Pull Over Obstruction



Horizontal Vault Pull





## Underground Tools & Accessories

### CableGlider Plus

**08674500** CableGlider 110v cable puller with 20 amp twist plug. Delivers up to 12,000 lbs of pulling force at low speed.

The two-speed motor pulls up to 30 feet per minute at high speed and up to 15 feet per minute at low speed. Comes with heavy duty frame and extra pivoting arm. Includes puller, foot switch, retaining fork, conduit adapters 2", 3", 3 1/2", and 4", and a tool box for the accessories.

**08674691** CableGlider 110v complete package. Contains puller, extension frame, 600ft of 7/8" rope, floor/conduit/pole mount frame, 5" and 6" adapters with retaining fork, and running line tensionmeter.

**Swivel Head Innerduct Pulling Eye.** Prevents twisting and binding of the innerduct as it is installed.

Part	Nominal Size	Innerduct ID Range	Max OD	Hole Dia.	Slot Width	Slot Depth	Pin Dia.	Pin Center
08960712	1 1/4"	1.06"-1.43"	1.75"	.44"	.56"	1.31"	.44"	.56"
08960715	1 1/2"	1.37"-1.68"	2"	.44"	.56"	1.31"	.44"	.56"
08960720	2"	1.93"-2.12"	2.44"	.44"	.56"	1.31"	.44"	.56"

### Condux Cable Pullers

**A. Reusable Power Pulling Eyes, Clevis Head.** Feature a slotted head with clevis pin to allow direct attachment to the Condux multiple pulling harness. Includes a clevis socket, sleeve nut, and plug.

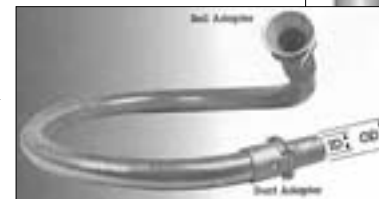
Part	Cable Size	Color	Max Conductor Dia.	Max Eye OD	Slot Width	Slot Depth	Pin Dia.	Pin Center
08918150	2500 kcmil	Green	1.824"	3"	1"	2.8"	.88"	1.23"
08917750	1750 kcmil	Yellow	1.526"	2.5"	1"	2.8"	.88"	1.23"
08917950	1500 kcmil	Black	1.412"	2.38"	.75"	1.78"	.63"	.72"
08917850	1250 kcmil	Blue	1.289"	2.25"	.75"	1.78"	.63"	.72"
08917150	1000 kcmil	Orange	1.152"	2.06"	.75"	1.78"	.6"	.72"
08917250	750 kcmil	Brown	.998"	1.75"	.63"	1.59"	.56"	.78"
08917350	700 kcmil	Gray	.964"	1.75"	.63"	1.59"	.56"	.78"
08917450	500 kcmil	Yellow	.813"	1.44"	.59"	1.41"	.44"	.59"
08917550	350 kcmil	White	.681"	1.25"	.56"	1.34"	.38"	.59"
08960350	250 kcmil	Blue	.575"	1.13"	.38"	1.06"	.31"	.53"
08960450	4/0 AWG	Green	.528"	1"	.38"	1.06"	.31"	.53"
08960850	2/0 AWG	Black	.419"	1"	.38"	1.06"	.31"	.53"
08960550	1/0 AWG	Red	.373"	.88"	.38"	1.06"	.31"	.53"

**B. Flexible Cable Guide with Aluminum Adapters.** Cable feeds through the

Bell adapter and exits through the Duct adapter which fits into the duct.

Bell and Duct adapter included for specific duct and guide size ordered.

Part	Flex Guide Dia.	Flex Guide Length	Part	Flex Guide Dia.	Guide Length
08931009	2"	9ft	08935012	5"	12ft
08931012	2"	12ft	08936009	6"	9ft
08934009	4"	9ft	08936012	6"	12ft
08934012	4"	12ft	08988009	8"	9ft
08935009	5"	9ft	08988012	8"	12ft



### Duct Adapter

Part	Flex Guide Dia.	Duct Size	OD	ID	Part	Flex Guide Dia.	Duct Size	OD	ID
08960200**	2"	Innerduct	-	1"					
08931010	2"	1"	.90"	.72"	8935030	5"	3"	2.98"	2.75"
08931013	2"	1 1/4"	1.22"	1"	8935035	5"	3 1/2"	3.45"	3.25"
08931015	2"	1 1/2"	1.44"	1.19"	8935040	5"	4"	3.93"	3.75"
008931020*	2"	2"	1.91"	1.66"	08935050*	5"	5"	4.93"	4.50"
08934020	4"	2"	1.91"	1.65"	8935060	5"	6"	5.94"	5.50"
08934030	4"	3"	2.94"	2.69"	8936040	6"	4"	3.93"	3.50"
08934035	4"	3 1/2"	3.13"	3.44"	8936050	6"	5"	4.94"	4.63"
008934040*	4"	4"	3.94"	3.69"	08936060*	6"	6"	5.94"	5.63"
08935020	5"	2"	1.98"	1.75"	08988080*	8"	8"	7.94"	7.62"

\* Included with cable guide unit above for that specific duct size. \*\* Tapered and threaded to fit over 1-2" (25-51mm) innerduct.

### Bell Adapter (includes mounting bolts)

Part	Size	ID	Part	Size	ID
08931000	2"	2"	08936000	6"	6"
08934000	4"	4"	08988000	8"	8"
08935000	5"	5"			



## Underground Tools & Accessories

### Condux Extensions

#### A. Extensions (Includes mounting bolts)

Part	Flex Guide Dia.	Extension Length	Part	Flex Guide Dia.	Extension Length
08931503	2"	3ft	8935509	5"	9ft
08931506	2"	6ft	8935512	5"	12ft
08931509	2"	9ft	8936503	6"	3ft
08931512	2"	12ft	8936506	6"	6ft
08934503	4"	3ft	8936509	6"	9ft
08934506	4"	6ft	8936512	6"	12ft
08934509	4"	9ft	988503	8"	3ft
08934512	4"	12ft	8988506	8"	6ft
08935503	5"	3ft	8988509	8"	9ft
08935506	5"	6ft	8988512	8"	12ft

A.



### Greenlee Misc.

#### B. 113 PVC hand saw.

"V" tooth design allows for straight cuts, resharpenable blade. 13" blade.

#### 114 PVC hand saw.

"V" tooth design allows for straight cuts, resharpenable blade. 18" blade.

#### C. PVC Heating Blankets

Make bends, offsets or saddles in PVC fast and easy.

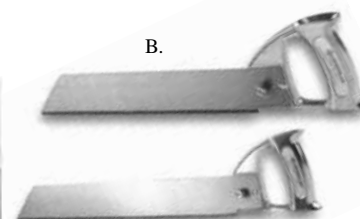
Wrap blanket around PVC, secure with hook and loop strap. Controlled heating for uniform bending. Temperature over 300 degrees F.

Part	Description
860-1-1/2	PVC heating blanket for up to 1 1/2"
860-3	PVC heating blanket for 2" to 3"
860-4	PVC heating blanket for 3 1/2" and 4"

C



B.



E.

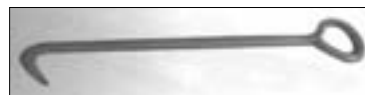


### Condux Misc.

#### D. Manhole Cover Lifting hook

Part	Length
08023001	18 in
08023000	26 1/2 in
08023002	36 in

D.



#### E. Standard POP'N'WORK Ground tents

Range in size from 4' x 4' to 2' x 10'. Most of the tents can have either one or two doors, with several different door design options.

In addition to a rugged frame construction, the polyester tent covers have an extra heavy coating for UV and flame resistance.

Except for the Gate Guard shelter, the tents all have a unique Unified Frame for easy cover replacement.

All POP'N'WORK Ground tents have a Quick-Pak flap for easy store and carry.

- 4x4 Ground Tents, Height 78" At the Peak and 102" At the Eave
- 6x4.5 Ground Tents, Height 80" At the Peak and 69" At the Eave
- 6x6 Ground Tents, Height 80" At the Peak and 69" At the Eave
- 8x6 Ground Tents, Height 92" At the Peak and 71" At the Eave
- 8x8 Ground Tents, Height 92" At the Peak and 71" At the Eave
- 10x8 Ground Tents, Height 100" At the Peak and 77" At the Eave
- 12x10 Ground Tents, Height 102" At the Peak and 90" At the Eave

**Sturdy umbrellas with center poles also available.**

### Polywater Lubricants

**F Polywater J** - High performance wire and cable pulling lubricant. Maximum friction reduction, clean and non-staining, high cling factor, compatible with all cables, UL and CSA listed, temperature stable, and available in cold weather formula. Available in 1 quart bottles and 5 gallon pails.

**G. Polywater PJ** - Same as the Polywater J but is a pourable version.

Available in 1 gallon jugs and 5 gallon pails.

**H. Polywater F** - A lubricant for fiber optic and other telecommunications cable.

Easy to pour into innerducts and feeding tubes, superior friction reduction, compatible with cable jackets including PE types, slow drying for long lasting lubrication, and available in cold weather formula. Available in 1 quart bottles and 5 gallon pails.

**I. Polywater NB Silicone** - A clean, slow-drying, silicone-based cable pulling lubricant.

Type NB(tm) with small frictionless rollers added, offers superior friction reduction and is ideally suited for use with silicone-lined and prelubed duct. Non-stringy Type NB(tm) pours and pumps easily, and is suitable for use with all common cable jacket types. Available in 1 quart bottles and 5 gallon pails.

F.



G.



H.



I.





## Climbing Belts, Hooks, Skids

### Bashlin Hooks & Pads

**A. No. 27** Bashlin's gaff shaping kit combines the necessary tools to maintain gaffs. It includes a file, gaff gauge, finishing stone, and instructions.

**B. 85N** Top straps 1 1/16" x 24". Made of nylon and double riveted featuring a protective buckle shield.

**C. 86N**

One piece lower straps 1 1/16" x 28".

**D. 87N**

Two piece lower straps 1 1/16" x 28". Must be assembled.

**E. 89N**

Two piece lower straps with split ring - 1 1/16" x 28".

### F. BD14 Series

The BD14 series is an aluminum offset climber with a replaceable, forged steel gaff. This lightweight climber reduces fatigue and adds climbing comfort.

**BD14-1N** Bottom straps attached.

**BD14-2N** Bottom straps attached, and top straps.

**BD14-3N** Bottom straps attached, top straps and No. 110D pads.

**BD14-4N** Bottom straps attached, top straps and No. 130D pads.

**BD14-5N** Bottom straps attached, top straps and No. 140DS pads.

### G. BD16BC Series

This steel climber has a replaceable gaff and twisted shank and offset design. The twisted shank lies flatter on the leg for more comfort.

**BD16BC-1N**

Bottom straps attached.

**BD16BC-2N**

Bottom straps attached, and top straps.

**BD16BC-3N**

Bottom straps attached, top straps and No. 110D pads.

**BD16BC-4N**

Bottom straps attached, top straps and No. 130D pads.

**BD16BC-5N**

Bottom straps attached, top straps and No. 140DS pads.

### H. No. 2 Gaff Guard

Bashlin's #2 gaff guards are made of leather and have a hook/loop attachment. They protect the gaff and you.

**I. No. 5 Gaff Gauge** Bashlin's gaff gauge measures the correct length, width, thickness and shape of the gaff.

**J. 105 BC** This is the original angled "spur-stay" climber pad for the BD14. It is designed to reduce kick-back and twisting of the shank. It is an excellent choice for the lineman who climbs occasionally.

**K. 130D** The 130D is an L-shaped design with light padding for added comfort.

**L. No. 14 Replacement** 1 5/8" gaffs for the BD14, BD12, and BD16B series pole climbers. No. 14T for tree gaff. No. 14S for polished gaff.

**M. 140DS** The wing pad holds the shank more securely than other leather pads. The climber shank fits inside the pad, reducing movement and adding comfort.





## Climbing Belts, Hooks, Skids

### Bashlin Leather Holsters

**A. 111 HLS** 4 pocket lineman's holster for pliers, ruler, screwdriver, Channellock, ratchet drive, knife or wrench.

**B. 111 HLDS A** 5" pocket version of the 111HLS

### Bashlin Pole Straps

**C.** The 6 ply 1 3/4" neoprene coated nylon material uses a tongue buckle adjustment. The "HL" snap action is similar to the movements used with the single locking snap. The "L" style 50 Series.

Length	HL Snap	L Snap	HLS Snap	Ship Wt.
5' 6"	51N-2HL	51N-2L	51N-2HLS	3.75 lb
6'	52N-2HL	52N-2L	52N-2HLS	3.75 lb
6' 6"	53N-2HL	53N-2L	53N-2HLS	4 lb
7'	54N-2HL	54N-2L	54N-2HLS	4 lb

### Bashlin Belts

#### D. 1511N

The Wrangler belt has a 5" cushion, a nylon back, and a 6 ply tongue and buckle section. It is lightweight, with standard comfort features, including Bashlin's S-shaped D-rings and an all leather cushion.

#### E. No. 33

The nylon handline carrier fits over the tongue buckle section of the belt. It is designed to straighten and drop the rope if the handling becomes snagged.

#### F. No. 83

Detachable rest-a-back belt is designed to provide support, yet easily attaches to tool belts. Made of top grain leather.

#### G. No. 88

The Flordian belt's superior design and performance make this belt the industry standard. It combines a padded, contour cushion section with flares for the shifting D-rings and a 5 1/2" back.

#### H. No. 88B

Rest-A-Back version of the No. 88 belt designed to relieve strain and fatigue.

### Buckingham Hooks & Pads

#### I. T92059A

Titanium climber to provide strength, lightweight and comfort for total confidence while climbing. The benefit of titanium is its strong like steel, but lightweight like aluminum, a perfect combination for climbers. Replaceable gaff.

#### J. T9206A

A new redesigned gaff for the titanium climber. Easily changed out with the aid of an Allen wrench.

#### K. 6909U

Universal gaff guard.

#### L. 3500

Cushion wrap pad 4" width. 3/4" of padding, infinite adjustment with velcro, eliminates top strap, fits most manufacturers.

#### L. 3500C

Same as 3500 but has a cinch loop.

#### L. 3502

Similar to the 3500 but has a metal insert.

#### L. 3502C

Similar to the 3502 but has a cinch loop.

#### L. 3502KL

Same as 3502 but designed to fit Klein sleeve.

#### L. 3503

Same as 3500 but has a 3" width pad.

#### M. 3503C

Same as 3503 but has a cinch loop.

#### M. 35032

Wrap around leather pads with metal inserts. May be used with all Buckingham pole and tree climbers. Use 24" or 26" leg straps.

#### N. 60092

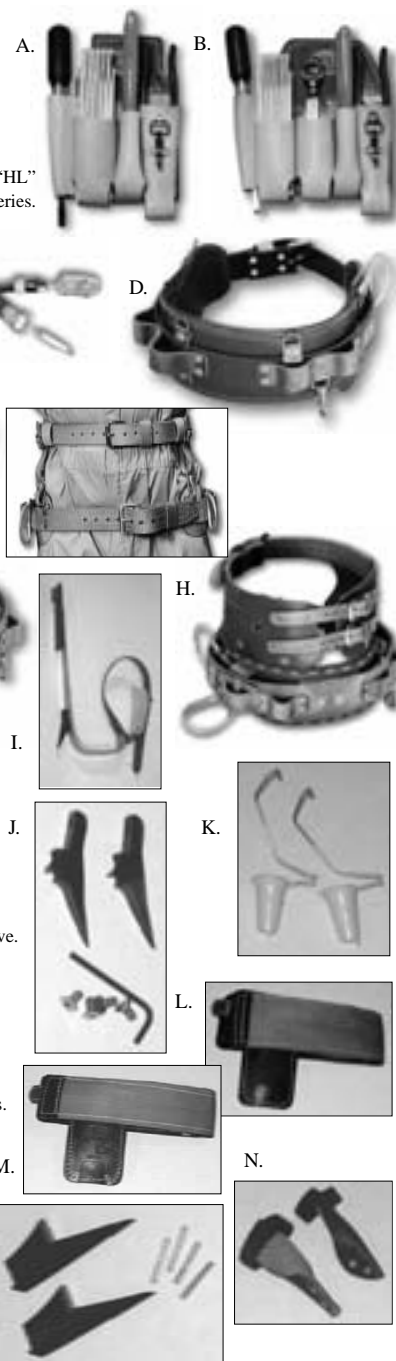
Gaff guard made of leather with velcro fastener for pole gaffs.

#### N. 60091

Gaff guard made of leather with velcro fastener for tree gaffs.

#### O. 9206

1 3/4" replacement pole gaffs.





## Climbing Belts, Hooks, Skids

### Buckingham Belts

#### A. 2000M

Buckingham's finest belt available. Hand crafted of the most pliable and highest quality leather available to create that broken-in feeling from the first day worn. It features a full float body belt with 5 1/2" foam cushioned pad reinforced with rawhide lace. The belt strap is leather and nylon sewn together for strength and comfort. Available in Black, Brown, and Burgundy.

#### B. 20003M

A backsaver version of the 2000M. The extra width provides support to the back helping to relieve strain.

#### C. 6257

Belt supporter used by those who carry heavy loads of tools who like to spread the belt weight to a waist strap. Equipped with sturdy snaps on moveable leather loops.

#### D. 6259

Belt supporter used by those who carry heavy loads of tools who like to spread the belt weight to a shoulder harness. Adjustable suspender type belt with moveable shoulder pads. Equipped with heavy duty snaps to attach to the tool belt support rings.

A.



B.



### Buckingham Pole Straps

#### E. 346099E

6' length. The Slide Buckle Pole Strap offers the user an easier way of adjusting the length when on a pole. To adjust length, slide the desired length of strap forward or back. When pressure is applied to the buckle, it locks in place. Made of 6 ply neoprene impregnated nylon.

#### 346699E

6' 6" length

#### 347099E

7' length

#### 348099E

8' length

C. D.



#### F. 386699E

Nybuck pole strap 1 3/4" x 6'.

#### 386099E

1 3/4" x 6'

#### 387099E

1 3/4" x 7'

#### 388099E

1 3/4" x 8'

E.



F.





## Climbing Belts, Hooks, Skids

### Klein Climbers Accessories

#### A. 72

1 1/2" pole climbing gaffs (supplied with 1972AR series).

#### 86

1 9/16" pole climbing gaffs (supplied with 1986AR series).

#### 07

2 3/4" tree climbing gaffs (supplied with 1970AR series).

#### 244

Long gaff screw.

#### 247

Short gaff screw.

#### 34910

Screw w/lock washer set (for steel sleeve)  
(8 screws and 4 lockwashers).

#### B. KG-2

Gaff sharpening kit includes 8" file, 3" stone, KG-1, and roll up case.

#### KG-1

Gaff gauge for pole and tree climbers.

#### C. 1907AR

Tree climber 15" - 19" with 2 3/4" gaffs.

#### 1907ARL

Tree climber 17" - 21" with 2 3/4" gaffs

#### CN1907AR

1907AR climber complete set which includes 8"x8" cushioned leather pads, steel sleeves, leg iron, gaff, split ring, and nylon calf and ankle straps.

#### CN 1907ARL

1907ARL climber complete set which includes 8"x8" cushioned leather pads, steel sleeves, leg iron, gaff, split ring, and nylon calf and ankle straps.

#### D. 1945G

Removable gaff guard with easy to remove velcro strap.

#### E. 1972G

Snap-on gaff guard.

#### 1972AR

Pole climber 15" - 19" with 1 1/2" gaffs.

#### 1972ARL

Pole climber 17" - 21" with 1 1/2" gaffs.

#### F. CN1972AR

1972AR climber complete set which includes 8"x8" cushioned leather pads, steel sleeves, leg iron, gaff, split ring, and nylon calf and ankle straps.

#### CN1972ARL

1972ARL climber complete set which includes 8"x8" cushioned leather pads, steel sleeves, leg iron, gaff, split ring, and nylon calf and ankle straps.

#### Climber straps for pole and tree climbers

Cat No.	Overall Size
5301-18	1" x 22"
5301-19	1" x 26"
5301-21	1 1/4" x 22"
5301-22	1 1/4" x 26"

#### Ankle straps for pole and tree climbers

Cat No.	Overall Size
5301-20	1" x 24"
5301-23	1 1/4" x 24"

A.



B.



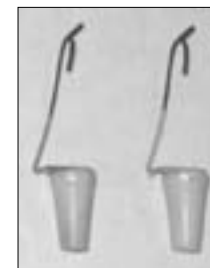
C.



D.



E.



F.





## Climbing Belts, Hooks, Skids

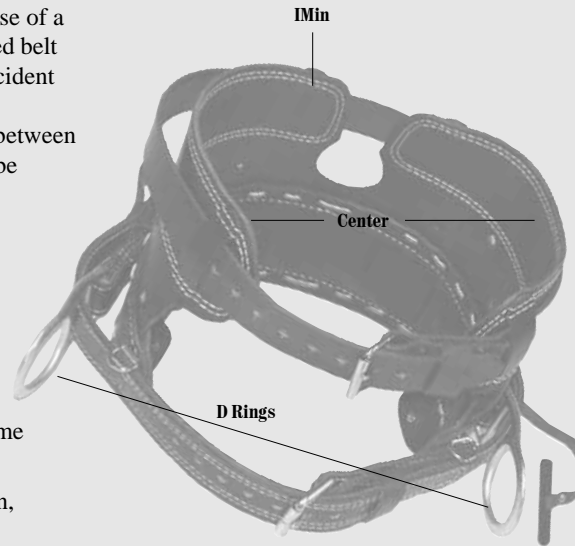
### Belt Sizing Guide

**Sizing:** Proper sizing is one of the most important considerations in the purchase of a lineman's tool belt. An improperly sized belt is uncomfortable and may cause an accident or injury. Tool belts are best measured by the "D" size, which is the distance between the heels of the "D" rings. Belts must be ordered according to the "D" size.

#### Find your "D" size:

1. Locate the point where the heel of the "D" ring should rest which is approximately 4" down from the top of the hip bone.
2. Begin to measure from this point. Measure around the buttocks to the same point on the opposite side.

When a properly sized tool belt is worn, the D-rings will point nearly straight ahead and the tongue adjustment will be in one of the center holes.



#### Note:

For the backsaver or Hip-Grip type belts, add 2" to your standard "D" measurement.

D Size	IMin	Center	Max	Tool Loops
D18	32	36	40	3
D19	33	37	41	3
D20	34	38	42	3
D21	36	40	44	4
D22	37	41	45	4
D23	38	42	46	4
D24	40	44	48	4
D25	41	45	49	4
D26	42	46	50	4
D27	44	48	52	4



## Buckets & Bags

### Nut & Bolt Bag

#### A. Klein 5142

Made from heavy duty brown canvas, snaps provided on loops for easy attachment to belts up to 3" wide, 9"x10".

#### B. Klein 5142P

Same as 5142 but with inside pocket.

#### C. Klein 5143

Canvas tapered bottom bag with two inside pockets for small parts, snap for hanging, 6 1/2" diam x 8"H.

#### D. Klein 5146T

Canvas bull-pin and bolt bag with 3" tunnel loop.

#### E. Bashlin 26G

A soft leather bag with snap closure and leather thongs, 8 1/2" x 9".

#### F. Bashlin 25A

Made of #8 cotton duck with a reinforced bottom, belt attachment is by two straps joined by snaps and "D"s, 8 1/2" x 9" x 4".

#### G. Buckingham 5299

A light weight leather pliable bag, ideal for maintenance and repair work, 10" x 9" x 3".

#### H. Buckingham 52993

Same as 5299 plus 3 inside pockets.

#### I. Estex 1000

10" x 6" x 3" with leather ties.

### Oval Buckets

#### J. Estex 1800

15"L x 7"W x 9"H. 6 tool pockets on one side.

#### K. Estex 1807-1

15"L x 8"W x 19"H. Used for long handle tools. 5 Pockets.

#### L. Estex 1810-FR-C

Yellow vinyl with 7 inside pockets. Hard body sides, vinyl cover and PVC offset.

#### M. Estex 1815-14-7

Inosil Corrosion shield.

14 outside pockets plus 15 inside pockets.

#### N. Estex 1815-1472G

Same as 1815-14-7 plus 2 grommets for attachment to aerial basket.

#### O. Estex 1820-HB

15 inside pockets with hard body.

#### P. Estex 1820-H-HB

Same as 1820-HB plus handles.

#### Q. Klein 5144

Oval canvas bucket with 15 inside pockets and supplied with two 5144H hooks, 14"L x 8"W x 10"H.

#### R. Klein 5152-S

Oval canvas bucket with 26 inside and 15 outside pockets, for use by cable splicers who use many color coded ties, with swivel snap hooks, 14"L x 8"W x 10"H.







## Buckets & Bags

### Round Buckets

**A. Klein 5172-PS**

Tapered-wall canvas bucket, with 15 inside pockets, molded bottom, rope handle and swivel snap, 12" diam top - 9" diam bottom x 12"H.

**B. Klein 5171-PS**

Same as 5172PS but without inside pockets, has 4 outside pockets.

**C. Klein 5103-S**

Heavy duty canvas bucket, with rope handle and swivel snap, meets telephone specification AT6673 pr CAO 6673, 12" diam top - 9" diam bottom x 12"H.

**D. Klein 5104**

Leather bottom canvas bucket, 8"x8" inside pocket, rope handle, 12" diam top - 12" diam bottom x 17"H

**E. Klein 5109**

Wide opening straight-wall canvas buckets, 12" diam x 15"H.

**F. Klein 5109-P**

Same as 5109 plus inside pocket.

**G. Klein 5109-S**

Same as 5109 plus swivel snap.

**H. Klein 5109P-S**

Same as 5109P plus swivel snap.

**I. Estex 2050**

12" diam top, 8" diam bottom, 12" high, heavy canvas body with plastic bottom.

**J. Estex 2050-S**

Same as 2050 plus swivel snap.

**K. Estex 2050-S-IP**

Same as 2050-S plus 15 inside pockets.

**L. Estex 2059**

12"x12"H Plastic bottom, swivel snap plus 14 outside pockets.

**M. Estex 2070-AMP-1**

12" diam x 15" H, rope and hook for crossarm, outside shell loops, and 4 large outside pockets.

**N. Estex 2061**

12" diam x 15"H with leather bottom.

**O. Estex 2068**

12" diam x 15"H, rubber bottom and swivel snap.

**P. Estex 2069**

Same as 2068, but with a leather bottom.

**Q. Estex 2015**

Carney bag 5 3/4" diam x 8" H with leather bottom. Great for connectors, nuts & bolts, and any small materials.

**R. Highline 650 Car bucket.**

### Bucket Hooks

**S. Estex 1830**

Fits all standard buckets.

**T. Estex 1831**

Fits buckets with 3" lip.



I. J. K. L.



M.

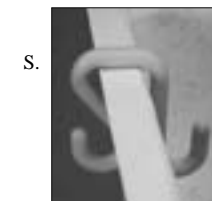


N. O. P.

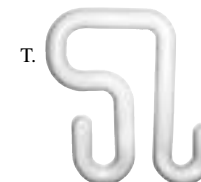


Q.

R.



S.



T.



## Buckets & Bags

### Equipment Bags

#### A. Estex 2190

Vinyl tool bag repels water, "Weather Flap" keeps rain from entering the bag through the frame, 24"L x 10"W x 19"H.

#### B. Estex 2190-1LOSP

Same as 2190 but with one large outside pocket and shoulder strap.

#### C. Estex 2608-C

Storage bag, 14"L x 5 1/2"W x 8 3/4"H with zipper and hard bottom.

#### D. Klein 5180

Extra-large nylon equipment bag, orange vinyl, extra flap for storm protection, 24"L x 10"W x 18"D.

#### E. Klein 5105-24

Canvas tool bag with leather handles, 24"L x 6"W x 15"D, 5102S for shoulder strap.

#### F. Buckingham 4433-SY

Durable rubber bottom canvas tool bag, lip protects against water, with shoulder strap and outside pockets, 11"x 24".

A.



B.



C.



D.



E.



F.



### Glove/Sleeve Bag

#### IT PAYS TO "LOOK UNDER THE HOOD"

Meaning – look both outside and inside to check for quality.

All Estex glove/sleeve bags have a leather patch on both sides.

Otherwise the only attachment the snap has to the bag is a thread. We sew and rivet through two layers of leather and then cap the rivets so there are no rough edges to scratch your gloves.

#### G. Estex 2110

8"L x 2"W x 12" H  
with snap

#### H. Heavy

##### Natural Canvas

8"L x 4"W

Estex 2220 15"H

Estex 2223 18"H

Estex 2226 20"H

#### I. Extra Heavy

##### Natural Canvas

8"L x 4"W

Estex 2230 15"H

Estex 2233 18"H

Estex 2236 20"H

#### J. Yellow Canvas

8"L x 4"W

Estex 2240 15"H

Estex 2243 18"H

Estex 2246 20"H

#### K. Heavy F. R.

##### Yellow Vinyl

8"L x 4"W

Estex 2247 15"H

Estex 2248 18"H

Estex 2249 20"H

#### L. Heavy

##### Natural Canvas

With front pocket for safety glasses or glove dust. 8"L x 4"W

Estex 2250 15"H

Estex 2253 18"H

Estex 2256 20"H

#### M. Extra Heavy

##### Natural Canvas

With front pocket for safety glasses or glove dust. 8"L x 4"W

Estex 2260 15"H

Estex 2263 18"H

Estex 2266 20"H

#### N. Yellow Canvas

With front pocket for safety glasses or glove dust. 8"L x 4"W

Estex 2270 15"H

Estex 2273 18"H

Estex 2276 20"H

#### O. Yellow Vinyl

With front pocket for safety glasses or glove dust. 8"L x 4"W

Estex 2280 15"H

Estex 2283 18"H

Estex 2286 20"H

G.



H. I. J. K.



L. M. N. O.



Velcro Closures: Are optional on all Glove Bags. Please specify by adding "V" at the end of product number. Bellows Side Gussets: Are also available on all Glove Bags. The bottom dimensions are 3 1/2", the top gusset dimensions are 6". Please specify by adding a "B" at end of product number. Give your gloves that extra protection they warrant. Glove bags lined with Estex "Hard Body" material.



## Buckets & Bags

### Ground Cluster Bags

#### A. Estex 2629

Grounding Cluster Bag made from 18oz heavy weight vinyl coated nylon, inside pocket for probes, velcro closure, 25 1/2" L x 28 1/2" H.

### Line Hose Bags

Without snap, canvas

#### B. Estex 1910

8" diam x 30" H

#### C. Estex 1932

8" diam x 60" H

#### D. Estex 1940

12" diam x 48" H

### Hot Stick Storage Bags

Made from heavy vinyl nylon, snap closure (velcro also available).

#### E. Estex 1401

5" W x 66" L

#### F. Estex 1411

6" W x 72" L

#### G. Estex 1421

6" W x 130" L

#### H. Estex 1431

7 1/2" W x 84" L

### Glove/Sleeve Bags

#### I. Estex 2246-V-HG-Yel

"Hard Body" Glove Bag with rigid polyethylene liner. 20" H x 8" L x 4" W

#### J. Estex 2499-SCE

Combination Bag for high and low voltage gloves. 8" L x 2" W x 20" H

#### K. Estex 2221-BA-B

Insulating Gloves Bag with white polyfilm liner. 8 1/2" W x 16" H x 2 3/4" D

#### L. Estex 2433-1

Available in yellow canvas. Low volt glove pocket 7 1/2" L x 4 1/2" W x 11" H. High volt glove pocket 9" L x 4" W x 16" H.

#### M. Traditional Glove and Sleeve Bags Natural Canvas

All bags are 8" L x 6" W

Estex 2420 14" H

Estex 2423 16" H

Estex 2426 18" H

Estex 2429 20" H

Plus extra pocket on front for goggles or glove dust.

#### N. Traditional Glove and Sleeve Bags Yellow Canvas

All bags are 8" L x 6" W

Estex 2430 14" H

Estex 2433 16" H

Estex 2436 18" H

#### O. Traditional Glove and Sleeve Bags Yellow Vinyl

All bags are 8" L x 6" W

Estex 2446 14" H

Estex 2440 16" H

Estex 2443 18" H

#### P. Estex 2310

Traditional sleeve bag, 9" L at top, 7" L at bottom x 2" W x 28" H, natural canvas.

#### Q. Estex 2311

Same as 2310 but yellow canvas.

#### R. Estex 2312

Same as 2310 but yellow vinyl.

#### S. Estex 2449-CE-V

Extra large sleeve bag, 12" L at top, 8" L at bottom x 4" W x 29 1/2" H with velcro closure.

#### T. Estex 2449-CE

Same as 2449-CE but with snap closure.

#### U. Estex 2449-TU-C

Same as 2449-CE but with snap closure and 8" L x 4" W x 17" H outside glove pocket.

#### V. Estex 2449-TU-V

Same as 2449-TU-C but with velcro closure

A.



B. C. D.



E. F. G. H.



I.



J.



K. L.



M. N. O.



P. Q. R.



S. T. U. V.





## Aerial Bucket Equipment

### Alliance Equipment

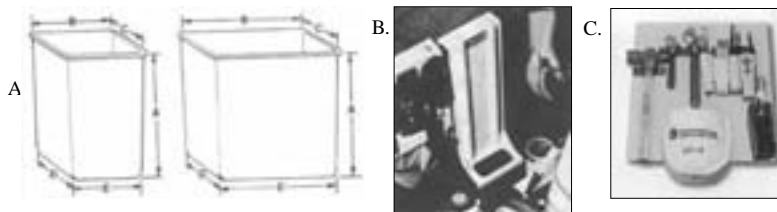
#### A. Liners

##### AE2129-50kv

50kv bucket liner 24" x 24 x 42"

##### AE2212-50kv

50kv bucket liner 24" x 48" x 42"



### Hastings

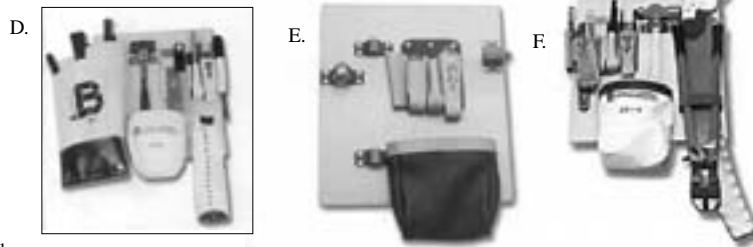
#### B. Steps

Fiberglass Step 26" x 8 1/2" x 8"

##### Model Type

05-961 For buckets with liners

05-960 For buckets without liners



### Bashlin

#### Tool Boards/Aprons/Trays

##### C. 708

18" x 20" tool board made of ABS.

Comes with 25B bag.

##### D. 708-2

18" x 20" tool board holds a variety of tools including speed wrenches, hammers, and compression tools. Lightweight.

##### E. 708G

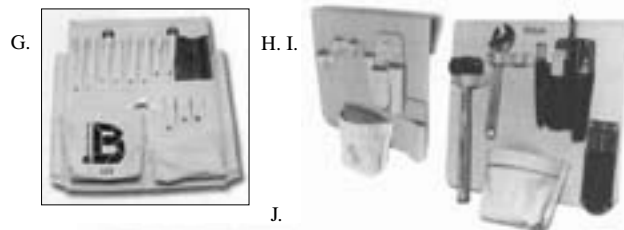
18" x 20" new design tool board includes spaces for drill bits, drivers, and the Lowell wrench. The 26L bag is standard.

##### F. 708S

18"x20" tool board can hold a pruning saw, cutter, or pruners. The 26R canvas bag is standard.

##### G. 724

Yellow heavyweight nylon tool apron. It has socket pockets, two pockets for auger bits, a hammer loop, and two large pockets for bolts, nuts and connectors. Two pvc hooks for hanging are included. 23 7/8" x 21 1/4".



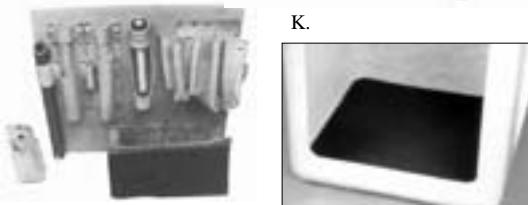
### Buckingham

#### Tool Boards/Aprons/Trays

**H. 4500** Rugged fiberglass tool apron. Provides a tool pouch, durable bug bag, and loops to hold the lineman's hammer and heavy wrench.

**I. 45004** Same as 4500 with 4226 four pocket pouch instead of 4223 three pocket.

**J. 45006** Same as 4500 with six pocket pouch instead of 3 pockets.



### Estex

#### Tool Boards/Aprons/Trays

##### K. 2708

Bucket pad that reduces back and leg strain. Prevents slipping and protects liner from wear and damage. Please specify size.

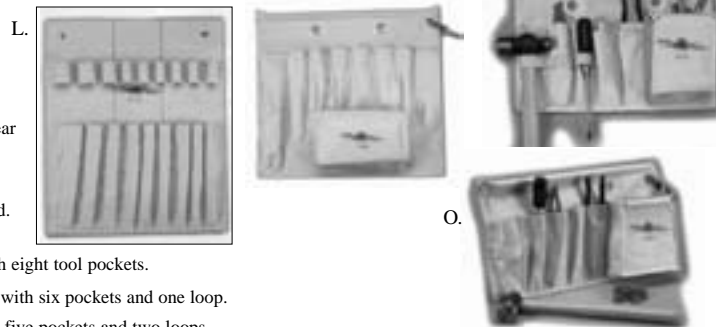
##### L. 1305

Auger bit organizer, 15" x 21" apron, 18" x 4" x 10", with pvc rod. Two 6" x 8" pockets.

**M. 1826** 18" x 4" x 19 1/2" tool apron with eight tool pockets.

**N. 1827** 20 1/2" x 4" x 10 1/2" tool apron with six pockets and one loop.

**O. 1828** 18" x 4" x 10 1/2" tool apron with five pockets and two loops.





## Aerial Bucket Equipment

### Estex

**A. 1829-A-2** 28 1/2"x4"x26 1/2" vinyl tool apron holds ratchet cutters and crimpers, bolt cutters, and more.

**B. 1829-DP**

23 7/8"x4"x21 1/4" vinyl tool apron with lots of pockets including bit holders.

**C. 1829-HB-7**

Inosil liner tool apron, 23 7/8"x4"x21 1/4", hard body construction keeps the apron rigid. Lots of pockets for all your tools.

### Tool Boards/Aprons/Trays

**D. 05-829**

18"x19 1/4" tool board with utility bag, four pocket pouch, knife pouch, and four loops.

**E. 05-805**

Canvas tool apron, 19 1/2"x18". Complete with 10 pockets and knife snap, plus one large 4"x8" pocket.

A.



B.



C.



D.



E.



### Hastings

#### F. Tool Holders 05-1001

Complete boom mounted hot stick holder. Made of durable fiberglass, will hold four hot sticks 1 1/4" - 2" diameter. Adapts to square, rectangular, round and oval booms.

**G. 05-828** Light holder for a Streamlight Tool Holder, Impact Wrench and Drill Holster For Stanley, Greenlee, and Fairmont models.

Model	Description
<b>H. 05-832</b>	Impact wrench and drill holster.
<b>I. 05-831</b>	Multi purpose impact wrench and drill holster.
05-833	05-832 with extra wide 4" bracket.
05-918-1	Inside-Outside tool tray. 7 1/2" x 6" x 14", hangs either inside or outside of bucket.
05-951	Outside tool tray. 7 1/2" x 6" x 14".

#### J. Tool Holders 05-992

Fiberglass tool rack. 6" x 8" x 20" with a fiberglass rod for hanging tools.

**01-3318** Cannister storage unit for rope blocks 6" O.D. x 18" long.

### PTI

#### Liners/Covers/Pads/Steps

Bucket Liners with Molded Step. Please specify bucket size and manufacturer.

#### K. Tool Holders Chainsaw Scabbard

Hang on either inside or outside the bucket.

Model	Description
CSS	Fiberglass scabbard
CSS-20	Plastic scabbard

**L. PSB-3** Pole saw holder made of 1/4" thick durable ABS. Designed to fit 1 1/4" to 1 1/2" saw handles.

#### Hotstick Hanging Rail

Model	Description
<b>M. HSHR</b>	Hot stick hanging rail, outside mount
HSHR-1	Hot stick hanging rail, inside mount
<b>N. BSH-3</b>	Boom mounted chain saw holder.

F.



G.



H.



I.



K.



J.



L.



M. N.



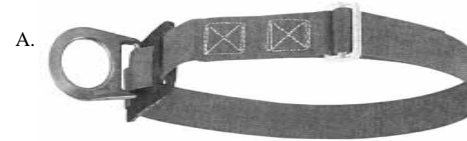


## Fall Protection

### Klein

#### A. Nylon boom strap 87916

With friction buckle. Designed to provide a proper anchorage on a boom for fall arrest lanyard.



### Hastings

**06-166 Rescue Systems** Complete aerial basket rescue kit. Includes ratchet boom strap, four sheave blocks with rope and storage cannister.

### Klein Lanyards

#### B. Nylon-Filament Rope Lanyard - Fixed Length

Long-strand nylon-filament construction provides very high tensile strength and excellent elasticity. Equipped with two drop-forged steel, corrosion resistant Klein-lok locking snap hooks with 11/16" throat opening. For use in positioning, suspension, or retrieval systems. Can also be used with deceleration unit for fall-arrest.

##### 1/2" Diameter

Model	Length (ft)
87417	4
87418	5
87419	6

**5/8" Diameter (Conforms to CSA, ANSI Z359.1-1992 (R1999) and CALOSHA)**

Model #	Length (ft)
87435	4
87436	5
87437	6

#### C. Non-Filament Rope Lanyard - Adjustable Length

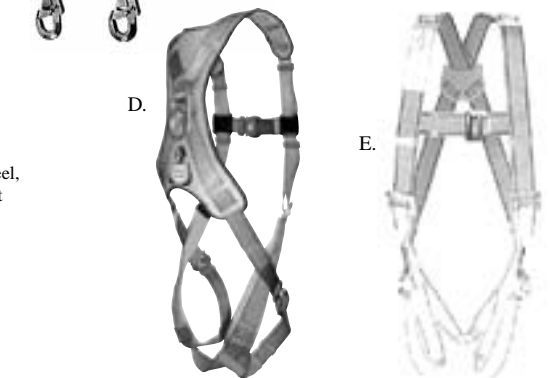
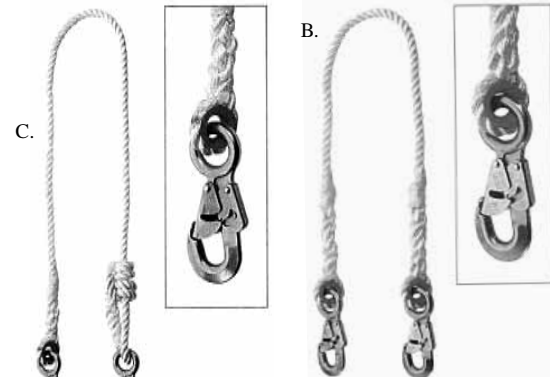
Convenient adjustable length. Long-stand nylon-filament construction provides very high tensile strength and excellent elasticity. Equipped with two permanently attached, drop-forged steel, corrosion resistant Klein-lok locking snap hooks with 11/16" throat openings. For use in positioning, suspension, or retrieval systems. Can also be used with deceleration unit for fall-arrest.

##### 1/2" Diameter

Model #	Length (ft)
87428	3.5-5
87429	4-6

**5/8" Diameter (Conforms to CSA, ANSI Z359.1-1992 (R1999) and CALOSHA)**

Model #	Length (ft)
87430	4-6



### Silverback Standard Full Body Harness

#### D.AB2000 Series Harness

Quick attachment buckles back, leg, and hip pads for added comfort. Integrated lanyard keepers. Tool belt loops. Available in Small, Standard, and XL sizes. Full compliance with OSHA 1926 and ANSI Z359.1-1998 Standards. Weight : 3.7 lbs

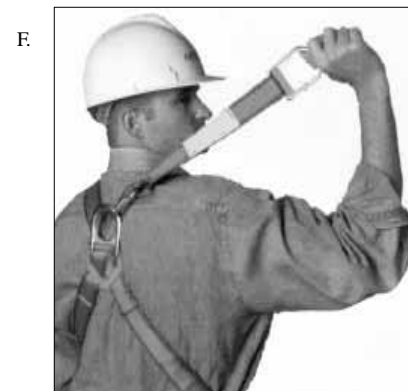
### Protecta Harness

**E. AB101A** Industrial full-body harness. 3 parachute buckle closures.

Leg, chest, and torso adjustable. Red with yellow sub-pelvic strap, single dorsal D-ring. 2.5lb.

**F. AB011A** D-ring extender for use with AB series harnesses.

Adds additional 20" to D-ring. Screw lock fastener, ideal for use in confined spaces.





## Fall Protection

### Protecta Harness

#### A. AB101A120

Contractor - Positioning harness. 1 parachute buckle chest closure, and tongue buckle leg closures. Leg, chest, and torso adjustable. Single D-ring in back, side hip positioning D-rings. 3.9lb.

#### B. AB101A20

Contractor - Industrial harness. 1 parachute buckle chest closure, and tongue buckle leg closures. Leg, chest, and torso adjustable. Single D-ring in back. 3.4lb.

### Protecta Accessories

#### Rope Grabs

##### C. AC202A

COBRA Rope Grab. Constructed of impact resistant steel, installable at any point on rope. Operates in manual or automatic mode. Accommodates 9/16", 5/8", or 3/4" rope. Designed for use with nylon or polyester rope.

##### D. AD111A Rebel®

The industry's lightest and most compact 11 foot SRL. Unique speed sensing brake reduces clearance requirements and limits fall arrest forces to 900 lbs. or less.

##### E. AE542AW1 1" web leg lanyard. Nylon web.

AE542AW1A 1" web leg lanyard. Nylon web adjustable length.

##### F. AE542AW2 1 3/4" web leg lanyard. Nylon web.

AE542AW4 1 3/4" web leg lanyard. 4' x 1 3/4" nylon web.

##### G. AJ450A

Websling anchor strap. 1 3/4" wide nylon web, 3" scuff guard. 2" and 3" pass-thru D-rings. Standard lengths are 3' and 6'.

##### H. AJ514A 3/4" steel twist locking carabiner.

##### I. AJ590A 2" steel double locking snaphook.

##### J. AK020A1

Confined spaced pulley. Anodized aluminum construction, pivoting sheave pulley guide, and no tools required for installation. Includes AJ514A self-locking carabiner.

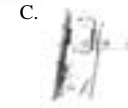
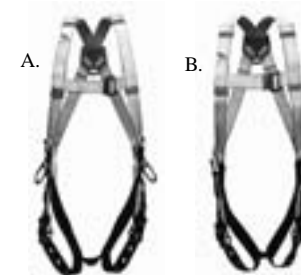
##### K. AK105A Confined space tripod. Constructed of anodized epoxy coated aluminum.

Four eyebolt anchors in head, leg position lock in tripod head, adjustable leg position cable, multiple safety pin locks in legs, one-man setup. Winch can be installed on any leg. 60" overall height fully retracted, single anchorage point rated at 5,400 lbs, and skid-resistant treadplate soles on feet. 30 lb total weight.

##### L. AL305AWA

1" web leg adjustable lanyard. Nylon web. Adjusts 4'-6'.

##### M. AL306A6 1/2" nylon rope lanyard. Positioning only.





## Hand Tools Listed by Vendor

### Bashlin Pliers

**A. 420G** The original Channellock 9 1/2" plier. It is still made to the exacting standards that earned it a quality reputation.

**B. 430G** The original Channellock 10" plier. Made to the exacting standards that earned it a quality reputation.

### Buckingham Knives

#### C. 7086

High-impact screwdriver type handle-9inch, redesigned with deeper thumb-stop position. Protects gloved hand from blade, with carry ring.

#### D. 7089

High-impact extra length screwdriver type handle-9 1/2inch, with carry ring. The extra length makes this knife easier to hold with the gloved hand.

#### E. 7090

Finger grooves on the handle make it easy to hold even if wet, ergonomic design makes it comfortable to grip, ring has dual pin system preventing it from spinning when connecting on body belt.

### Cementex Insulation Tools

#### F. 10750TW

1/2" drive 14 1/2" long. An insulated torque wrench that allows a telephone or electric utility worker to safely work around energized bus bars or backup batteries. The heavy-duty 1/2" drive covers 100-750 inch pounds, with audible "click" types. Now with boot-style head. Requires taper down extension bar when using Cementex insulated sockets.

#### G. IB38-6

3/8" drive 6" long. Insulated tapered down to fit boot-style sockets and ratchets.

#### H. Hex Keys **HK-120** **IHK-140**

1/2" 1/4"

1/2" Chrome-nickle alloy hex keys are 6" long with formed handle for added performance. Heat treated for superior strength.

<b>IHK-140</b>	<b>IHK-316</b>	<b>IHK-380</b>	<b>IHK-516</b>	<b>IHK-716</b>	<b>IHK-732</b>
1/4"	3/16"	3/8"	5/16"	7/16"	7/32"

#### I. IR38-LC

3/8" drive 7 1/4" long new boot-style insulated ratchet design. Offers greater coverage and increased protection. Raised lever for easy reversing while wearing gloves. Requires extension bar when using Cementex booted sockets.

### Cooper Hammer

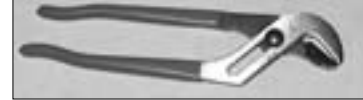
#### J. 11417

22oz 15" length. Fiberglass handle, extra large, high-luster, full-polished head, back and sides.

A.



B.



C.



D.



E.



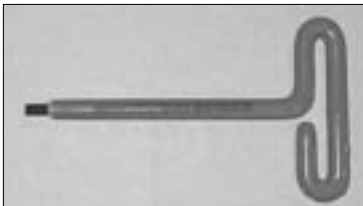
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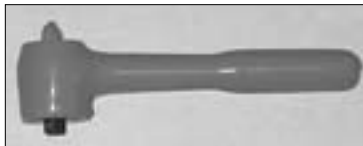
G.



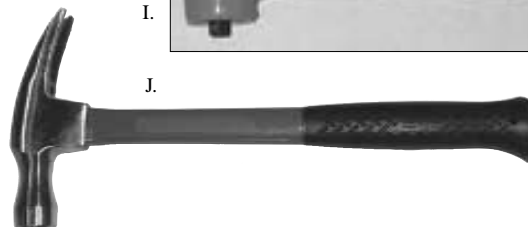
H.



I.



J.







## Hand Tools Listed by Vendor

### Cooper Measuring

**A. 062CME**

5/8" wide x 6" Marked both sides and edges

**B. 066F**

5/8" wide x 6" Has inside markings

**C. 1312D**

3/4" wide x 12' Engineer's Case designed to fit perfectly in the hand, lightweight, high strength, removable belt clip.

**D. HV1425D**

1" wide x 25' Engineer's Orange case, designed to fit perfectly in the hand, removable belt clip.

**E. 1619F**

6ft folding fiberglass measuring stick.



A. B.



C.



D.

### Cooper Misc.

**F. 21458**

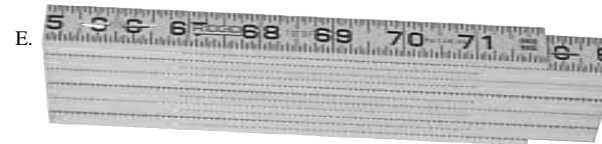
10" File card #4 for cleaning of file teeth.

**G. 21467**

10" File card & brush

**H. 43H**

Seizer shear clamps firmly to hold wires for soldering, curved nose with serrated jaws.



E.



F. G.

### Fast Lok Banding

**I. Preformed Galvanized Clamp**

F-3	F-5	F-6	F-7	F-8	F-9
13/16"	1 1/4"	1 1/2"	1 3/4"	2"	2 1/4"

F-10	F-12	F-16	F-20	F-24
2 1/2"	3"	4"	5"	6"

**J. Galvanized Open End Clamp**

F-10	F-311	F-316	F-36
2 1/2"	1 3/8"	2"	9"

**K. F-100**

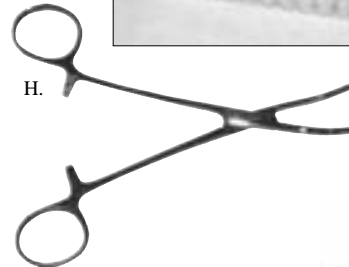
P-1 locking tool with 3/8" adapter

**F-229**

3/8" adapter

**L. KS-001**

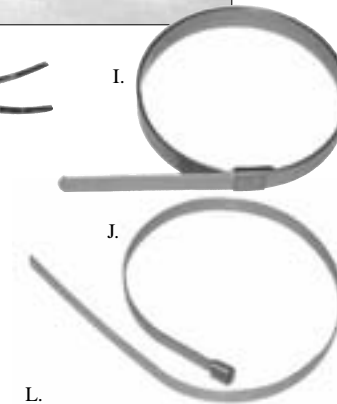
Use for K Clamps, with adapter can be used on 3/4" K Clamps.



H.



K.



I.



L.



## Hand Tools Listed by Vendor

### Fargo Wrenches

**A. Specially designed connector wrenches**  
for proper and fast installation of mechanical connectors.

**GP-201**

3/8" and 9/16" without insulation

**GP-203**

9/16" and 3/4" without insulation

**GP-204**

3/4" and 7/8" without insulation

**GP-2093**

5/16" Allen and Eye Loop with insulation

**GP-2093P**

5/16" Allen and Penta Socket with insulation

**GP-221**

3/8" and 9/16" with insulation

**GP-2213AR**

3/8" Allen and 5/16" Allen with insulation.

**B. GP-223**

9/16" and 3/4" with insulation.

**GP-2236**

5/8" and 13/16" with insulation.

**GP-224**

3/4" and 7/8" with insulation.

**GP-240**

5/16" Rev. Allen and 3/8" Rev. Allen with insulation.

**GP-241P**

5/16" Rev. Allen and Penta Socket with insulation.  
Other configurations available.

### Hastings

**C. Hammer head wrench with coated handle.**

**10-312**

1 3/4" Wide x 14" Long Slip fit foam rubber grip handle.

**10-312-1**

Urethane dipped handle.

### InWesco Wrenches

**D. 82A87**

Spanner Wrench.

### HighLine Wrenches

**E. HL Penta**

1/2" dr x 9/16" Penta Socket Wrench

### Lowell

**F. Lowell or Lineman's Triple Square Wrench**

51-T Cast 12" Handle  
150-T Stamped Steel 10" Handle  
151-T Stamped Steel 12" Handle





## Hand Tools Listed by Vendor

### Klein Pliers

#### A. 10310

10" Straight Jaw Klein-Lok pliers are rugged, powerful, and easily lock to any size with desired amount of pressure, made of alloy steel.

#### B. D203-6

1 15/16" jaw, 11/16" jaw width, 6 5/8" overall length  
Standard long nose pliers with side cutters.

#### C. D502-10

1 3/4" x 10" long. Pump plier jaws are locked into place by engaging tongue in proper groove, plastic dipped handle.

#### D. J2000-9NE

Klein Journeyman 9-3/8" Side-Cutting Pliers – Heavy-Duty Cutting. Soft handle material on outer surface for comfort and a firm grip. Hard black material on inner surface and handle ends for toughness and durability. Cuts ACSR, screws, nails and most hardened wire, high-leverage, smooth, streamlined nose with knurled jaws.

#### E. J248-8

Klein Journeyman 8-1/8" Diagonal-Cutting Pliers – Angled Head. Soft handle material on outer surface for comfort and a firm grip. Hard black material on inner surface and handle ends for toughness and durability. High-leverage, standard-bevel cutting knives.

### Klein Cutter

#### F. J63050

Soft handle material on outer surface for comfort and a firm grip. Hard black material on inner surface and handle ends for toughness and durability. High-leverage, cable gripping, shear-type jaws.

#### G. D2000-48

13/16" jaw, 1 3/16" jaw width, 8" overall length.  
High-leverage diagonal cutters with angled head, ultra durable for ACSR, bolts, nails and most hardened wire, plastic dipped handle.

#### H. D2000-9NE

1 19/32" jaw, 1 5/16" jaw width, 9 1/4" overall length with thread chewer.  
Can cut and grip ACSR, bolts, nails, and most hardened wire, plastic dipped handle.

### Klein Saws

#### I. 1218BI

12" 18 teeth special high speed steel teeth fused to regular carbon steel body provide superior cutting and longer life. Fits all 12" blade hacksaws.

#### 1218HS

12" 18 teeth high speed steel blade cuts most metals including unhardened tool steel and stainless.

#### 1224Bi

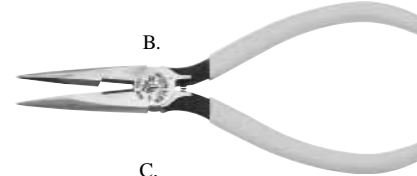
12" 24 teeth special high speed steel teeth fused to regular carbon steel body provide superior cutting and longer life. Fits all 12" blade hacksaws.

#### J. 700-12

12" Blade 16 1/2" long. The industrial hacksaw, lightweight, supplied with blade.



A.



B.



C.



D.



E.



F.



G.



H.



I.



J.



## Hand Tools Listed by Vendor

### Klein Knives

#### A. 1550-2

2 1/2" blades 2-blade carbon steel, with screwdriver tip blade.

#### B. 1550-42

Same except with stainless steel blades.

#### C. 1550-4

2 5/8" blade – Slitting pocket knife ideal for heavy duty line work.

#### 1550-44

Same except with stainless steel blade.

#### D. 1550-5

2 1/4" blade – Coping-type blade ideal for skinning small wire and cable.

#### E. 550-6

2 3/8", 2 1/2" blades – 3-blade curved sheepfoot skinning blade, standard pearpoint blade, and screwdriver tip blade.

#### F. 1550-7

2 3/8", 2 1/2" blades – 2-blade curved sheepfoot slitting blade and screwdriver tip blade.

#### G. 1570-3

3" blade, 8" overall – Lineman's plastic handle skinning knife with handle ring.

#### H. 44200

1 3/4" blade, 6 1/4" overall – Cable-splicer's knife with coping-type blade, plastic dipped handle.

#### I. 46037

Cable-splicer's kit includes 44200 knife, electrician's scissors, and slotted leather holder.

### Klein Wrenches

#### J. 3146

1 3/32", 29/32" and 13/16", 5/8" openings – Lineman's wrench for 5/8" hardware for use on the heavier three bolt guy clamps where clearance is limited.

#### K. 3146A

1 1/16", 1 5/16", and 5/8", 7/8" openings – Same as 3146 but for 3/4" hardware.

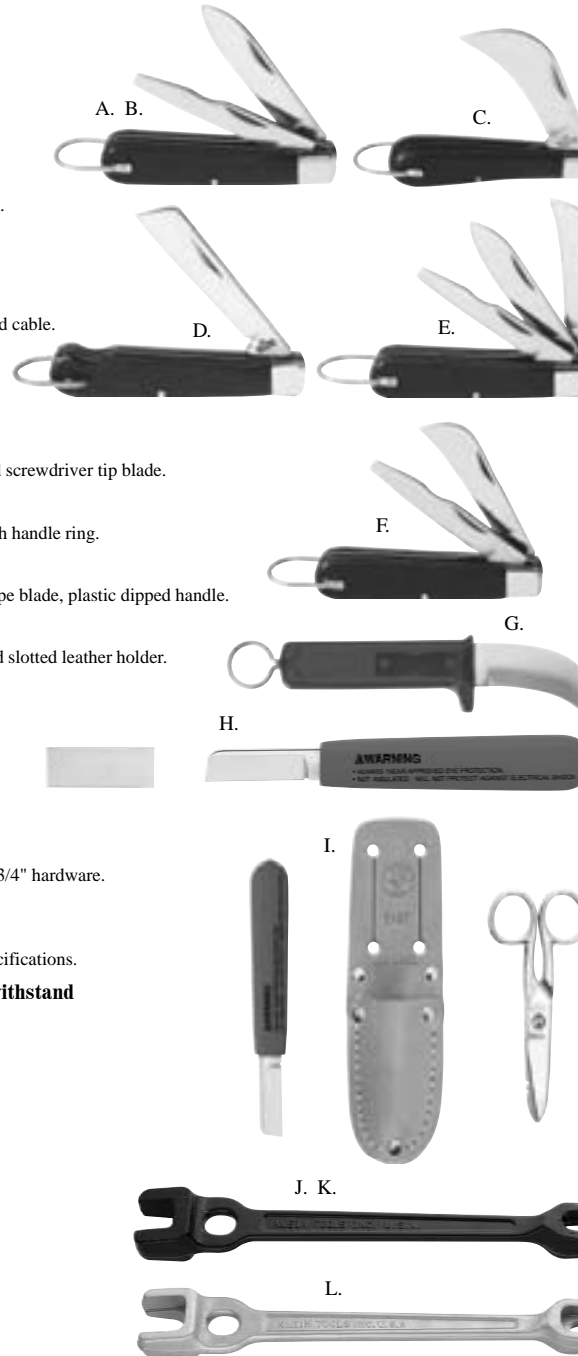
#### L. 3146B

1 1/16", 1 3/16", and 11/16", 7/8" openings.

Bell system type lineman's wrench sized to NEMA hardware specifications.

**Erection wrench drop-forged from select alloy steel to withstand high-leverage and heavy loads.**

No.	Nut Type	Bolt Size	Nominal Opening	Length
3210	US heavy	1/2"	7/8"	14 1/2"
3211	US heavy	5/8"	1 1/16"	14 3/4"
3212	US heavy	3/4"	1 1/4"	16 1/2"
3213	US heavy	7/8"	1 7/16"	17 1/4"
3222	US Regular	3/4"	1 1/8"	16 1/2"
3223	US Regular	7/8"	1 5/16"	17 1/4"
3224	US Regular	1"	1 1/2"	17 11/16"
3231	Utility	5/8"	15/16"	14 3/4"
3232	Utility	3/4"	1 1/16"	16 1/2"





## Hand Tools Listed by Vendor

### Klein Wrenches

#### A. 3238

1/2" square drive hex, 15" overall – Construction wrench with reversible ratchet, drop-forged alloy steel with continuous taper handle for aligning bolt holes.

#### B. 3239

1 1/2", 15" overall – Adjustable construction wrench with continuous taper handle.

**C. Standard jaw design adjustable wrench made of drop-forged alloy steel, lightweight and chrome plated.**

**Same as 506 series except extra capacity heavy-duty version adjustable wrench ideal for use in confined space.**

No.	Length	Capacity
506	4"	1/2"
506-6	6"	3/4"
506-8	8"	15/16"
506-10	10"	1 1/8"
506-12	12"	1 5/16"
506-15	15"	1 11/16"

No.	Length	Capacity
507-6	6"	15/16"
507-8	8"	1 1/8"
507-10	10"	1 5/16"
507-12	12"	1 1/2"

**D. Same as 506 series but with plastic dipped handles.**

**Same as 506 series but with heavy-duty plastic dipped handles.**

No.	Length	Capacity
D506-4	4"	1/2"
D506-6	6"	3/4"
D506-8	8"	15/16"
D506-10	10"	1 1/8"
D506-12	12"	1 5/16"

No.	Length	Capacity
HD506-4	4"	1/2"
HD506-6	6"	3/4"
HD506-8	8"	15/16"
HD506-10	10"	1 1/8"
HD506-12	12"	1 5/16"

**Same as 507 series but with plastic dipped handles.**

**Same as 506 series but with heavy-duty plastic dipped handles.**

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

No.	Length	Capacity
HD507-6	6"	15/16"
HD507-8	8"	1 1/8"
HD507-10	10"	1 5/16"
HD507-12	12"	1 1/2"

#### E. 65510

12 piece 1/2" drive socket wrench set including sockets: 7/16", 1/2", 9/16", 5/8", 11/16", 3/4", 13/16", 7/8", and 15/16", extension: 5", 5/8" spark plug socket, ratchet and metal box.

#### F. 65514

8 piece 1/2" drive deep socket set including sockets: 1/2", 9/16", 5/8", 11/16", 3/4", 13/16", 7/8", and 15/16", and metal box.





## Hand Tools Listed by Vendor

### Klein Wrenches

#### A. Individual ratcheting box wrenches.

For use in confined space and on long studs, reverses by turning wrench over, chrome-plated finish.

Single Hex			Double Hex		
No.	Size	Length	No.	Size	Length
68200	1/4"x5/16"	4 1/4"	68203	5/8"x11/16"	8"
68201	3/8"x7/16"	5 1/2"	68204	5/8"x3/4"	8"
68202	1/2"x9/16"	6 1/2"	68205	11/16"x3/4"	9 1/4"
			68206	13/16"x7/8"	9 1/4"



#### B. S12H

1 1/2" to 5", 6" handle – Grip-It strap wrench is completely adjustable.



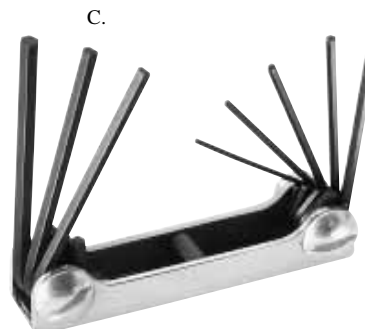
### Klein Hex Key Sets

#### 70579

3/16", 7/32", 1/4", 5/16", 3/8" Five-key folding set.

#### C. 70581

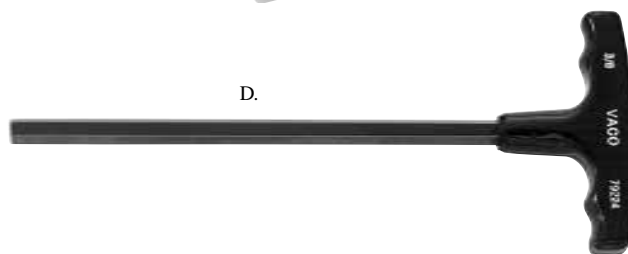
.050", 1/16", 5/64", 3/32", 7/64", 1/8", 9/64", 5/32" Eight-key folding set.



#### D. Individual T-Handle hex keys 9" Length.

No.	Hex size	Blade Length
79206	3/32"	7 1/4"
79207	7/64"	7 1/4"
79208	1/8"	7 1/4"
79209	9/64"	7 1/4"
79210	5/32"	7 1/4"
79212	3/16"	7 1/2"
79214	7/32"	7 1/2"
79216	1/4"	7 1/2"
79220	5/16"	7 1/2"
79224	3/8"	7 1/2"
79232	1/2"	7 1/2"

D.



### Klein Screwdrivers

#### E. Heavy duty square shank, keystone tip.

No.	Shank W x L	Overall Length
600-1	1/4"x1 1/2"	3 7/16"
600-4	1/4"x4"	8 11/32"
600-6	5/16"x6"	10 15/16"
600-8	3/8"x8"	13 7/16"
600-12	1/2"x12"	17 7/16"

E.



#### F. Round shank, cabinet tip.

No.	Shank W x L	Overall Length
601-3	3/16"x3"	6 3/4"
601-4	3/16"x4"	7 3/4"
601-6	3/16"x6"	9 3/4"
601-8	3/16"x8"	11 3/4"
601-10	3/16"x10"	13 3/4"

F.





## Hand Tools Listed by Vendor

### Klein Screwdrivers

#### A. Heavy duty round shank, keystone tip.

No.	Shank W x L	Overall Length
602-3	7/32"x3"	6 3/4"
602-4	1/2"x4"	8 11/32"
602-6	15/16"x6"	10 15/16"
602-8	3/8"x8"	13 7/16"
602-10	3/8"x10"	15 7/16"
602-12	3/8"x12"	17 7/16"

#### B. Round shank, special profilated phillips tip for more accurate fit and torque without slippage.

No.	Point size	Shank L	Overall Length
603-1	2	1 1/2"	3 7/16"
603-3	1	3"	6 3/4"
603-4	2	4"	8 5/16"
603-6	3	6"	11"
603-7	2	7"	11 15/16"
603-10	2	10"	14 15/16"

#### C. Heavy duty round shank, cabinet tip.

No.	Shank W x L	Overall Length
605-4	1/4"x4"	8 11/32"
605-6	1/4"x6"	10 11/32"
605-8	1/4"x8"	12 11/32"
605-10	1/4"x10"	14 11/32"

### Klein Nut Driver

#### D. Individual cushion grip, hollow shaft nut drivers.

No.	Color Code	Hex Size	Shank Length
630-3/16	black	3/16"	3"
630-1/4	red	1/4"	3"
630-5/16	yellow	5/16"	3"
630-11/32	green	11/32"	3"
630-3/8	blue	3/8"	3"
630-7/16	brown	7/16"	3"
630-1/2	red	1/2"	3"
630-9/16	orange	9/16"	4"
630-5/8	yellow	5/8"	4"

#### E. 631 Set

Includes: 630-3/16", 630-1/4", 630-5/16", 630-11/32", 630-3/8", 630-7/16", 630-1/2" 7 piece cushion grip nut-driver set with roll up plastic pouch.

### Klein Hammer

#### F. 808-20

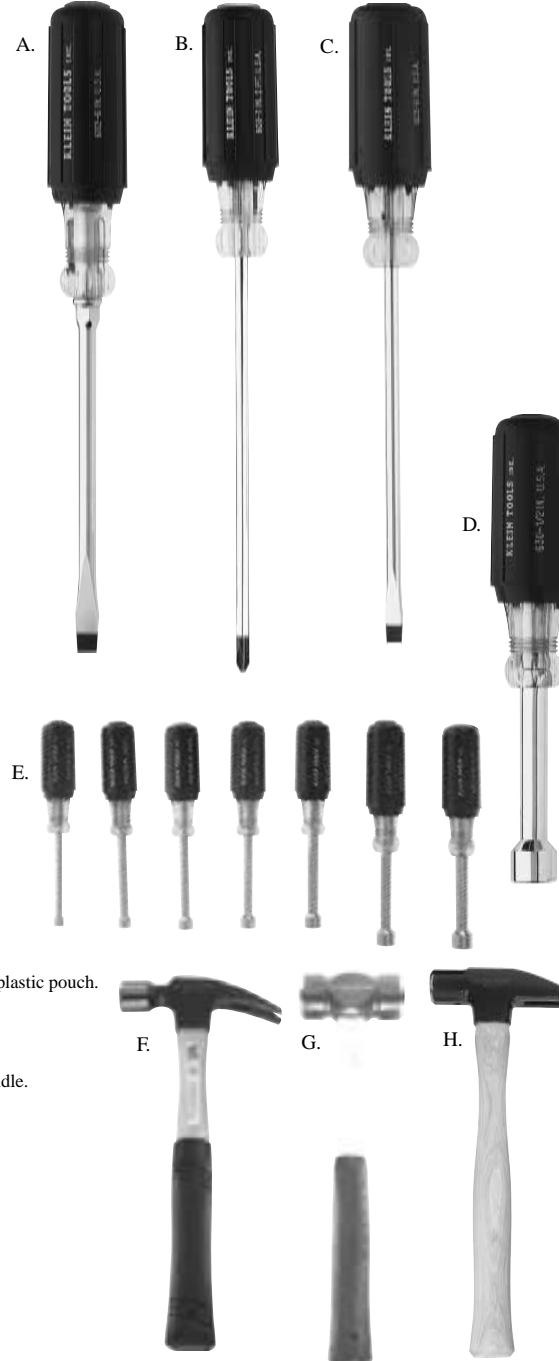
20oz, 13" length – Heavy duty straight claw hammer, fiberglass handle.

#### G. 809-36

36oz, 15" length – Lineman's double-face hammer, fiberglass handle.

#### H. 832-32

32oz, 13 1/2" length – Lineman's straight claw hammer, hickory handle.





## Hand Tools Listed by Vendor

### Klein Measuring

#### A. 946-50

1/2" W x 50' length – Woven fiberglass tape measurer.

#### B. 946-100

1/2" W x 100' length – Woven fiberglass tape measurer.

### Nupla Hammer

#### C. 19-023

20oz –Classic nail hammer, fiberglass handle.

#### D. 27-035

3lb. 14" handle – Classic sledge hammer, fiberglass handle.

### Stanley Proto Wrenches

#### E. 5449

10" length, 1/2" drive – Pear Head Ratchet.

#### F. 5450

16" length, 1/2" drive – Long Handle Pear Head Ratchet.

### Stanley Bits

#### G. 49905-16

5/16", 2 23/32" overall length Hex Bit.

#### H. 7121 Impact Wrench Adapter

1/2" sq. drive 7/16" Hex Shank Extension Bit.

### I. 1/2" Deep Length Drive Impact Sockets - 6 point.

No.	In.	Length	No.	In.	Length	No.	In.	Length
7312H	3/8"	3 1/4"	7324H	3/4"	3 1/4"	7336H	1 1/8"	3 1/2"
7314H	7/16"	3 1/4"	7326H	13/16"	3 1/4"	7338H	1 3/16"	3 1/2"
7316H	1/2"	3 1/4"	7328H	7/8"	3 1/2"	7340H	1 1/4"	3 1/2"
7318H	9/16"	3 1/4"	7330H	15/16"	3 1/2"	7342H	1 5/16"	3 1/2"
7320H	5/8"	3 1/4"	7332H	1"	3 1/2"	7344H	1 3/8"	3 1/2"
7322H	11/16"	3 1/4"	7334H	1 1/16"	3 1/2"	7346H	1 7/16"	3 1/2"
						7348H	1 1/2"	3 1/2"

### J. 1/2" Drive Impact Sockets - 12 point

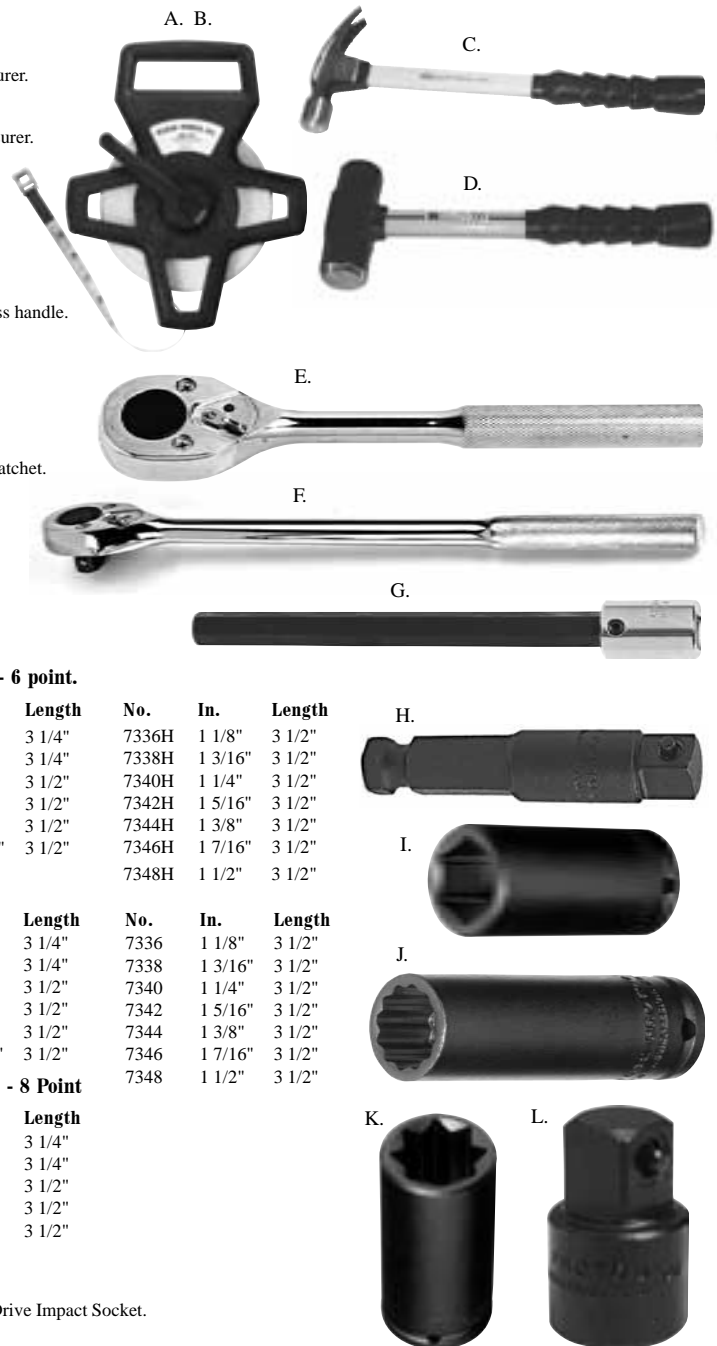
No.	In.	Length	No.	In.	Length	No.	In.	Length
7312	3/8"	3 1/4"	7324	3/4"	3 1/4"	7336	1 1/8"	3 1/2"
7314	7/16"	3 1/4"	7326	13/16"	3 1/4"	7338	1 3/16"	3 1/2"
7316	1/2"	3 1/4"	7328	7/8"	3 1/2"	7340	1 1/4"	3 1/2"
7318	9/16"	3 1/4"	7330	15/16"	3 1/2"	7342	1 5/16"	3 1/2"
7320	5/8"	3 1/4"	7332	1"	3 1/2"	7344	1 3/8"	3 1/2"
7322	11/16"	3 1/4"	7334	1 1/16"	3 1/2"	7346	1 7/16"	3 1/2"
						7348	1 1/2"	3 1/2"

### K. 1/2" Drive Deep Length Impact Sockets - 8 Point

No.	In.	Length	No.	In.	Length
7312S	3/8"	3 1/4"	7324S	3/4"	3 1/4"
7314S	7/16"	3 1/4"	7326S	13/16"	3 1/4"
7316S	1/2"	3 1/4"	7328S	7/8"	3 1/2"
7318S	9/16"	3 1/4"	7330S	15/16"	3 1/2"
7320S	5/8"	3 1/4"	7332S	1"	3 1/2"
7322S	11/16"	3 1/4"			

#### L. 7652

1/2" F x 3/4" M, 2 1/8 Length – Adapter for 1/2" Drive Impact Socket.







## Hand Tools Listed by Vendor

### Apex Tools - Bits

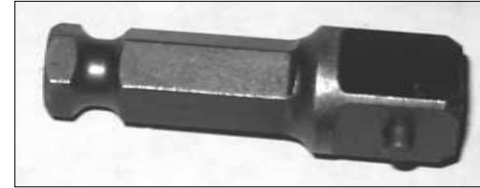
#### A. EX-501-2

7/16" hex drive for 1/2" square drive sockets. Pin lock.

#### B. EX-501-B-2

7/16" hex drive for 1/2" square drive sockets. Ball lock.

A. B.



### Safety Line Wrenches

#### C. 920

Goat Wrench made from alloy steel, jaws are designed so that a nut, bolt or pipe is drawn further into the throat as pressure is applied.

### Speed Systems Wrenches

#### PW-2

Penta security wrench has standard head.

#### RBW-1

Ratcheting box wrench has 5/16" hex shaft extended 1 1/2" on one side.

#### RBW-2

Ratcheting box wrench has 5/16" hex shaft extended 1 1/2" on each side.

#### D. RBW-12916

1/2" x 9/16" Ratcheting box wrench has 5/16" hex shaft extended 1 1/2" on one side.

#### RBW-91634

9/16" x 3/4" Ratcheting box wrench.

#### RBW-91658

9/16" x 5/8" Ratcheting box wrench.

#### RBW-3478

3/4" x 7/8" Ratcheting box wrench.

#### RBW-3812

3/8" x 1/2" Ratcheting box wrench.

#### RBW-38516

3/8" x 5/16" Ratcheting box wrench.

C.



D.



E. F.



### Tulsa Power Products

The most economical and easiest way to handle a reel of material in the warehouse or the field.

#### E. RT20

The RT20 is for reels with up to 4" arbors weighing up to 2,000 lbs.

#### F. RT40

The RT40 is for reels with up to 6" arbors weighing up to 4,000 lbs.



## Hand Tools Listed by Vendor

### Armstrong Wrench

**A. 600SW** Spanner Wrench.



### Wright Tool Bits

#### B. 1/2" Double Square Deep Impact Sockets - 8 Points.

No.	Size	Length	No.	Size	Length
4772	3/8"	3 1/4"	4786	13/16"	3 1/4"
4774	7/16"	3 1/4"	4788	7/8"	3 1/2"
4776	1/2"	3 1/4"	4790	15/16"	3 1/2"
4778	9/16"	3 1/4"	4792	1"	3 1/2"
4780	5/8"	3 1/4"	4794	1 1/16"	3 1/2"
4782	11/16"	3 1/4"	4796	1 1/8"	3 1/2"
4784	3/4"	3 1/4"			

#### C. 1/2" Drive Deep Impact Sockets - 12 Points.

No.	Size	Length	No.	Size	Length
4964	7/16"	3 1/4"	4970	5/8"	3 1/4"
4966	1/2"	3 1/4"	4972	11/16"	3 1/4"
4968	9/16"	3 1/4"	4974	3/4"	3 1/4"

#### D. 1/2" Double Square Impact (Railroad) Sockets - 8 Points.

No.	Size	Length	No.	Size	Length
6865	3/4"	2 1/8"	6876	1 1/8"	2 1/4"
6866	13/16"	2 1/8"	6878	1 3/16"	2 1/2"
6868	7/8"	2 1/8"	6880	1 1/4"	2 1/2"
6870	15/16"	2 1/8"	6882	1 5/16"	2 5/8"
6872	1"	2 1/8"	6886	1 7/16"	2 3/4"
6874	1 1/16"	2 1/4"			

**E. 9076** 13/16" 5 point Penta Socket for 1/2" Drive Impact.

**F. 4902** 1/2"F x 3/4"M, 2" length Impact adapter.

### Greenlee Tools

#### G. NR1 Socket

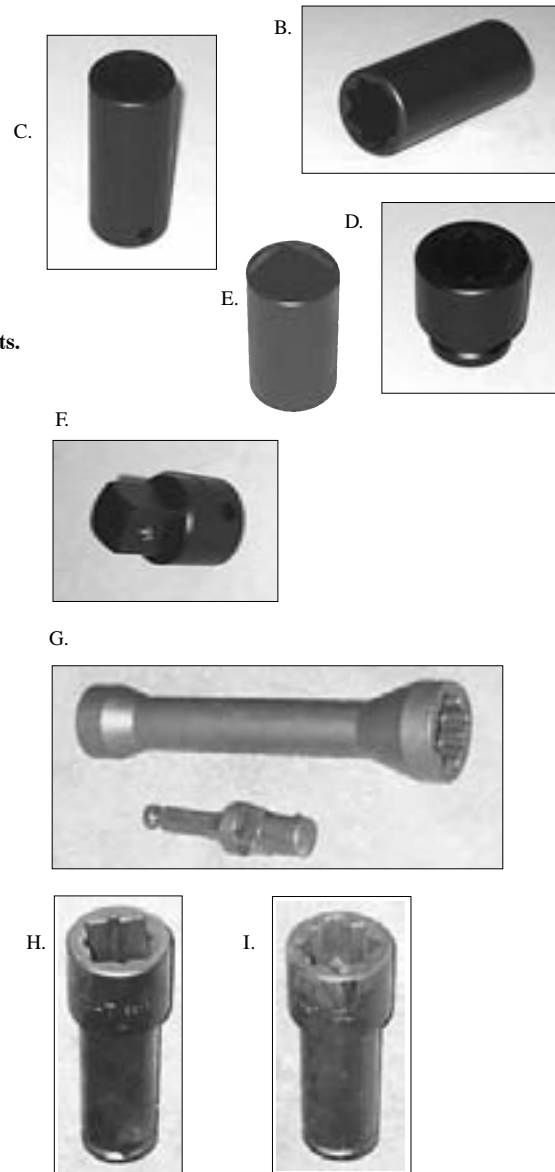
Square nut sizes 3/4", 13/16", and 1 1/8".

Up to 6" long 7/16" hex quick-change adapter included.

### ATP Tools

**H. Z-081315S5** -13/16" x 15/16" socket for 1/2" square drive.

**I. Z-081618S5** -1" x 1-1/8" socket for 1/2" square drive.





## Stripping Tools

### Ripley

#### A. 4x4 Plus

Cable end strippers for 600 volt secondary cable.  
Cutting heads for #6 AWG to 500 MCM conductors (concentric, compressed, or compacted).  
Strips 45 MIL to 110 MIL XLPE, polyethylene and EPR insulation. Choice of square cut or chamfer cut blades. Strips quickly, even in cold climates.  
Precision stripping with no conductor damage.  
Guarded cutting blades ensure safety.  
Bushings change easily and rapidly in the field or in your shop.  
Extension available (part # 36106) which permits stripping an additional 1 1/2" of insulation from the conductor.

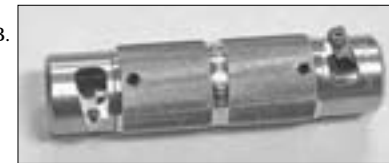
A.



#### B. 2x2 Plus

Double-ended end stripper for 600 volt cable #6 to 500 MCM (concentric, compressed, or compacted).  
Interchangeable bushings strip different cable sizes.

B.



**Bushings for 2x2 Plus , 4x4 Plus and WS 68 tools.**  
**Square cut bushing selection for electrical wire.**

Part	THHN Copper	XHHW Copper	THHN/ XHHN Aluminum	RHW/ RHH/USE Copper	Part	THHN Copper	XHHW Copper	THHN/ XHHN Aluminum	RHW/ RHH/USE Copper
10-27522S	6	6	6	-	10-70050S	-	-	250 MCM	-
10-32530S	-	-	4	-	10-72560	-	-	-	4/0
10-32540	-	-	-	6	10-75050S	250 MCM	250 MCM	300 MCM	-
10-35030S	4	4	-	-	10-77550S	-	300 MCM	-	-
10-37530S	3	3	2	-	11-80050S	300 MCM	-	350 MCM	-
10-37540	-	-	-	4	11-80075	-	-	-	250 MCM
10-40030S	2	2	-	-	11-82550S	-	350 MCM	400 MCM	-
10-42540S	-	-	1	-	11-85050S	350 MCM	-	-	-
10-45040	-	-	-	2	11-85075	-	-	-	300 MCM
10-47540S	1	1	1/0	-	11-87550S	400 MCM	400 MCM	-	-
10-52540S	1/0	1/0	2/0	-	11-90075	-	-	-	500 MCM
10-52560	-	-	-	1	11-92550S	-	-	500 MCM	-
10-55040S	2/0	2/0	-	-	11-97550S	500 MCM	500 MCM	-	-
10-57540S	-	-	3/0	-	11-102575	-	-	-	500 MCM
10-57560	-	-	-	1/0	<b>Special Order Sizes</b>				
10-60040S	3/0	3/0	-	-	11-102560S	-	-	600 MCM	-
10-60060	-	-	-	2/0	11-105060S	600 MCM	600 MCM	-	-
10-62540S	-	-	4/0	-	11-107560S	-	-	700 MCM	-
10-65060	-	-	-	3/0	11-110060S	-	-	750 MCM	-
10-67540S	4/0	4/0	-	-	11-117560S	750 MCM	750 MCM	-	-



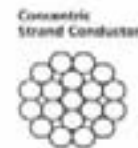
## Stripping Tools

### Ripley

#### 2x2 Plus & 4x4 Plus Bushings to Chamfer Cut Insulation

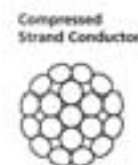
##### Concentric Strand Conductor

Size AWG	45 MIL O.D.	Part	60 MIL O.D.	Part	80 MIL O.D.	Part	95 MIL O.D.	Part
6	0.29"	2-30030	.315"	12-32540	*	*	.390"	12-40075
4	0.34"	12-35030	.365"	12-37540	*	*	*	*
2	0.39"	12-40030	.440"	12-45040	.465"	12-47560	*	*
1	*	*	.465"	12-47540	.515"	12-52560	*	*
1/0	*	*	.515"	12-52540	.565"	12-57560	.590"	12-60075
2/0	*	*	.565"	12-57540	.590"	12-60060	.640"	12-65075
3/0	*	*	.615"	12-62540	.665"	12-67560	.690"	12-70075
4/0	*	*	.665"	12-67540	.715"	12-72560	.740"	12-75075
250 MCM	*	*	*	*	.765"	13-77560	.790"	13-80075
350 MCM	*	*	*	*	.865"	13-87560	.890"	13-90075
500 MCM	*	*	*	*	.990"	13-100060	1.040"	13-105075



##### Compressed Strand Conductor

Size AWG	45 MIL O.D.	Part	60 MIL O.D.	Part	80 MIL O.D.	Part	95 MIL O.D.	Part
6	0.29"	12-30030	.315"	12-32540	*	*	.390"	12-40075
4	0.34"	12-35030	.365"	12-37540	*	*	*	*
2	0.39"	12-40030	.440"	12-42540	.465"	12-47560	*	*
1	*	*	.465"	12-47540	.515"	12-52560	*	*
1/0	*	*	.515"	12-50040	.540"	12-55060	.590"	12-60075
2/0	*	*	.565"	12-55040	.590"	12-60060	.615"	12-62575
3/0	*	*	.615"	12-60040	.640"	12-65060	.665"	12-67575
4/0	*	*	.665"	12-67540	.690"	12-70060	.740"	12-75075
250 MCM	*	*	*	*	.740"	12-75060	.765"	13-77575
350 MCM	*	*	*	*	.840"	13-85060	.890"	13-90075
500 MCM	*	*	*	*	.965"	13-97560	1.015"	13-102575



##### Compacted Strand Conductor

Size AWG	45 MIL O.D.	Part	60 MIL O.D.	Part	80 MIL O.D.	Part	95 MIL O.D.	Part
6	.29"	12-30030	.315"	12-32540	*	*	.390"	12-40075
4	.34"	12-35030	.365"	12-37540	*	*	*	*
2	.39"	12-40030	.415"	12-42540	.465"	12-47560	*	*
1	*	*	.440"	12-45040	.490"	12-50060	*	*
1/0	*	*	.465"	12-47540	.515"	12-52560	.565"	12-57575
2/0	*	*	.515"	12-52540	.565"	12-57560	.590"	12-60075
3/0	*	*	.565"	12-57540	.615"	12-62560	.640"	12-65075
4/0	*	*	.615"	12-62540	.665"	12-67560	.690"	12-70075
250 MCM	*	*	*	*	.715"	12-72560	.740"	13-75075
350 MCM	*	*	*	*	.790"	13-80060	.840"	13-85075
500 MCM	*	*	*	*	.915"	13-92560	.965"	13-97575



#### 2x2 Plus and 4x4 Plus Bushings to Square Cut Insulation

##### Compressed Strand Conductor

Size AWG	45 MIL O.D.	Part	60 MIL O.D.	Part	80 MIL O.D.	Part	95 MIL O.D.	Part
6	.290"	10-30030	.315"	10-32540	*	*	.390"	10-40075
4	.340"	10-35030	.365"	10-37540	*	*	*	*
2	.390"	10-40030	.440"	10-45040	.465"	10-47560	*	*
1	*	*	.465"	10-47540	.515"	10-52560	*	*
1/0	*	*	.515"	10-50040	.540"	10-55060	.590"	10-60075
2/0	*	*	.565"	10-55040	.590"	10-60060	.615"	10-62575
3/0	*	*	.615"	10-60040	.640"	10-65060	.665"	10-67575
4/0	*	*	.665"	10-67540	.690"	10-70060	.740"	10-75075
250 MCM	*	*	*	*	.740"	11-75060	.765"	11-77575
350 MCM	*	*	*	*	.840"	11-85060	.890"	11-90075
500 MCM	*	*	*	*	.965"	11-97560	1.015"	11-102575



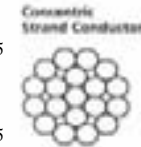


## Stripping Tools

### Ripley

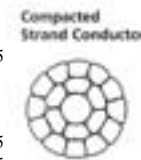
#### Concentric Strand Conductor

Size AWG	45 MIL O.D.	Part	60 MIL O.D.	Part	80 MIL O.D.	Part	95 MIL O.D.	Part
6	.290"	10-30030	.315"	10-32540	*	*	.390"	10-40075
4	.340"	10-35030	.365"	10-37540	*	*	*	*
2	.390"	10-40030	.440"	10-45040	.465"	10-47560	*	*
1	*	*	.465"	10-47540	.515"	10-52560	*	*
1/0	*	*	.515"	10-52540	.565"	10-57560	.590"	10-60075
2/0	*	*	.565"	10-57540	.590"	10-60060	.640"	10-65075
3/0	*	*	.615"	10-62540	.665"	10-67560	.690"	10-70075
4/0	*	*	.665"	10-67540	.715"	10-72560	.740"	10-75075
250 MCM	*	*	*	*	.765"	11-77560	.790"	11-80075
350 MCM	*	*	*	*	.865"	11-87560	.890"	11-90075
500 MCM	*	*	*	*	.990"	11-100060	1.040"	11-105075



#### Compacted Strand Conductor

Size AWG	45 MIL O.D.	Part	60 MIL O.D.	Part	80 MIL O.D.	Part	95 MIL O.D.	Part
6	.290"	10-30030	.315"	10-32540	*	*	.390"	10-40075
4	.340"	10-35030	.365"	10-37540	*	*	*	*
2	.390"	10-40030	.415"	10-42540	.465"	10-47560	*	*
1	*	*	.440"	10-45040	.490"	10-50060	*	*
1/0	*	*	.465"	10-47540	.515"	10-52560	.565"	10-57575
2/0	*	*	.515"	10-52540	.565"	10-57560	.590"	10-60075
3/0	*	*	.565"	10-57540	.615"	10-62560	.640"	10-65075
4/0	*	*	.615"	10-62540	.665"	10-67560	.690"	10-70075
250 MCM	*	*	*	*	.715" <sup>no</sup>	11-72560	.740"	11-75075
350 MCM	*	*	*	*	.790"	11-80060	.840"	11-85075
500 MCM	*	*	*	*	.915"	11-92560	.965"	11-97575



**A. CST Tool** Coring and stripping tool in one fast and precise operation. Standard "T" handle with a built in 3/8" drill adapter; CST-R tools have a ratchet "T" handle and a separate 3/8" drill adapter. Heat treated sheath cutting blade produces a smooth beveled edge and can be replaced without the expense of replacing the entire coring bit. Spiral-fluted, heat treated steel coring bit. Rugged, durable, all metal construction. Strip stops available for exact stripping lengths of .50 to 2 inch. Color coded cable guide sleeves for easy cable size identification. Weight: 11b. 10oz.

#### Ordering Guide for CST Tool

##### COMM/SCOPE P1, P3 Cable Guard;

##### TIMES FIBER T4, T6, T10 Cable; Alcatel Cable Benelux - ACE Cable

Cable	Standard Tool	Ratchet Tool	Coring Bit Kit	Guide Sleeve	Sleeve Color
412	CST 412	CST 412-R	CB 114K	29104	BLACK
500	CST 500	CST 500-R	CB 115K	29105	RED
625	CST 625	CST 625-R	CB 116K	29106	BLUE
750	CST 750	CST 750-R	CB 117K	29111	GREEN
875	CST 875	CST 875-R	CB 118K	29112	YELLOW
1000	CST 21000	CST 21000-R	CB 119K	29113	ORANGE

##### TIMES FIBER TX and COMM/SCOPE P3 Cable

Cable	Standard Tool	Ratchet Tool	Coring Bit Kit	Guide Sleeve	Sleeve Color
565	CST 565TX	CST 565TX-R	CB 146K	29108	RED
700	CST 700TX	CST 700TX-R	CB 137K	33847	BLUE
840	CST 840TX	CST 840TX-R	CB138K	29109	GREEN
1160	CST 21160TX	CST 21160TX-R	CB158K	33837	NEUTRAL

##### COMM/SCOPE "Powerfeeder" and TIMES FIBER T10 Power 20 & 50 Ohm Cable

Cable	Standard Tool	Ratchet Tool	Coring Bit Kit	Guide Sleeve	Sleeve Color
625/PF	CST 625PF	CST 625PF-R	CB 201K	29106	BLUE
625/20	CST 625/20	CST 625/20-R	CB 203K	29106	BLUE
625/50	CST 625/50	CST 625/50-R	CB 200K	29106	BLUE

#### Accessories for CST Tools

Cable	Ratchet Handle	Drill Adapter	Sheath Cutting Blade
412 to 840	31250	31230	CB 60
860 to 1080	31275	31235	CB 60
1160	31275	31235	CB 26

A.





## Stripping Tools

### Ripley

#### A. WS-5

End stripper for 600 volt to 35kv cables. .260 to 1.265 inch cable O.D., strips XLPE, polyethylene and EPR insulation. Precision stripping of insulation only or insulation and semicon simultaneously. Ideal for primary URD cable. Guarded cutting blade prevents injury. Rotating stop bar permits accurate preset stripping lengths of up to 4 in. Bar removable for infinite stripping. Accepts SW 2 ratchet for leverage.

#### WS5A

Upgraded model of the WS5. Same features plus new adjustable strip stop with rotary mechanism, and new adjustment window allowing easy setting of stop for precise strip lengths.

#### Bushing Selection

Cable O.D. (Inch)	Bushing # (WS 5-A)	Cable O.D. (Inch)	Bushing # (WS 5)
.260-.285	.300	.761-.785	.800
.286-.310	.325	.786-.810	.825
.311-.335	.350	.811-.835	.850
.336-.360	.375	.836-.860	.875
.361-.385	.400	.861-.885	.900
.386-.410	.425	.886-.910	.925
.341-.435	.450	.911-.935	.950
.436-.460	.475	.936-.960	.975
.461-.485	.500	.961-.985	1.000
.486-.510	.525	.986-1.010	1.025
.511-.535	.550	1.011-1.035	1.050
.536-.560	.575	1.036-1.060	1.075
.561-.585	.600	1.061-1.085	1.100
.586-.610	.625	1.086-1.110	1.125
.611-.635	.650	1.111-1.135	1.150
.636-.660	.675	1.136-1.160	1.175
.661-.685	.700	1.161-1.185	1.200
.686-.710	.725	1.186-1.210	1.225
.711-.735	.750	1.211-1.235	1.250
.736-.760	.775	1.236-1.260	1.275
		1.261-1.285	1.300

A.



B.



#### B. WS1 and WS2

Mid-span Stripper for .320 to .790 in cable. Each tool built for a specific size. Operates on all tree wire and spacer cables. Choice of handle styles. Designed for hot stick operation. Strips at end of any point along cable length (mid span).

Hook/Ring	Models Plastic	3/4" Rings	2 1/2" Rings	Cable O.D. (inch)	Insulation Thickness (mils)	Replacement Blade
WS1	WSP1	WSR1	WSB1	.320-.790	45 to 12 125 to 200	CB2 CB1
WS2	WSP2	WSR2	WSB2	.750-1.3	45 to 125 125 to 200	CB2 CB1
WS2K	WSPK2	WSRK2	WSBK2	.750-1.3	200+	CB8-2A & CB19

#### WS21

Double-ended end stripper for 600 volt cables, 1/0 AWG to 1000 MCM. Square-cuts two specific cable sizes. Clean strips quickly with no conductor damage. Stripping length preset at factory. Special Order.

### Ripley

#### Conductor Strip Stops for CST Tools

Strip length	Part	Strip length	Part	Strip length	Part
1 1/4"	32983	1/2"	3297	1 7/16"	33957
1 3/8"	32981	5/8"	32975	1 1/2"	32982
1"	32980	3/4"	32985	1 9/16"	33959
1 1/16"	32979	13/16"	33958	1 11/16"	32984
1 1/8"	33973	7/8"	32977	1 3/4"	33967
1 3/16"	32986	15/16"	32978	2"	33962



## Stripping Tools

### A. BP Tool

Adjustable blades

**Model Cable O.D.(Inch)**

BPA .375-.750

BP1A .750-1.250

BP2A 1.250-2.000

### B. WS50 & WS50A

Adjustable URD end stripper for 1/0 AWG to 1000 MCM. .500 to 2.25 in cable O.D..

Two handles permit safe, easy operation on XLPE, plastic, polyethylene, and EPR insulation of all thicknesses. Adjustable strip stop bar gives an exact stripped conductor length and can be rotated to allow unlimited stripping. Safe, clean cuts prevent conductor damage. CB50 blade included. Option: #34730 adds precision adjustment feature.

### WS57

Adjustable end stripper, stripper/jacket stripper for 45 to 115kv cables. 2.0 to 4.0 in cable O.D.. Quick-slide adjustment for cable sizing, easy setting of blade cutting depth.

For XLPE, polyethylene and EPR insulations. Blade angle adjusts easily to control width of end strip cut. Replacement blade CB144.

### WS57A

Same features as the WS57 plus an adjustable semi-con shaving blade system. Replacement blades CB40X and CB144.

### C. WS61

Adjustable URD jacket stripper for encapsulated jackets of #2 AWG to 1000 MCM. Cable O.D.'s up to 2.25 in. Blade adjustment feature offers precise positioning. Can also be used as an adjustable end stripper.

Two handles permit safe, easy operation. Prevents damage to underlying concentric conductors. Replacement blade CB155k.

### D. WS64

Adjustable cable stripper. "Universal" tool for end stripping or mid span stripping outer jackets or insulated material. End stripping and mid span stripping with different blades (interchangeable). "Dual position" jaw for cable sizes from 1/2" up to 2 1/2" cable O.D., and is versatile for electric utility applications. Removes outer jacket on primary cable (all major insulation shields). When using mid span blade stripping version, caution must be used when end stripping concentric neutral cables. Versatile design also includes ability to strip secondary and primary insulations. Quickly and easily adjusts to cable size with spring loaded "trigger-action" jaw. Micro adjustable blade allows accurate setup for a variety of insulation thicknesses. Self feeding tool design allows easy and efficient operation with minimal effort.

Model	Function	Installed Blade
WS64-U-E	End stripping only. Outer jackets up to 2.5" O.D. Insulation to 1.5" O.D., up to 35kv-345 mils maximum thickness	CB50K
WS64-U-M	Mid span/End stripping. Outer jackets up to 2.5" O.D. 175 mil maximum insulation/ covering thickness (15kv)	CB236
WS64-U-EM	End strip and mid span stripping	CB50K installed CB236 included

A.



B.



C.



D.





## Stripping Tools

### Speed Systems

#### A. 1542-2CL

Insulation Stripper for primary cable from 1/2" to 1 3/4".  
Precise blade adjustment. Maximizes reliability of installation,  
provides greater speed and increased safety, and no bushings required.

Model	Features
1542-2CL	Tool with wedge blade installed, spare straight blade
1542-2CL-1	Tool with wedge blade installed, spare wedge blade
1542-2CL-2	Tool with straight blade installed, spare straight blade
1562	Wedge blade (XLP)
1581	Straight blade (EPR)

#### B. 1542-2AS

Dual functions - strips cable insulation and scores semi-con.  
Adjustable semi-con scoring .001" to .090". Combines features of  
1542-2CL speed stripper and 1700 semi-con scorer.

Model	Features
1542-2AS	Tool with wedge blade installed, spare straight blade
1542-2AS-1	Tool with wedge blade installed, spare wedge blade
1542-2AS-2	Tool with straight blade installed, spare straight blade
1562	Wedge blade (XLP)
1581	Straight blade (EPR)
1678	Scoring blade

#### Accessories and Options

1590X	Small cable adapter for cables 5/16" to 1/2" O.D.
1646X	Scale gauge measures stripback
Split Handle	Optional folding handle - add "S" to catalog number
2689	Chamfering tool/scale gauge (2672 replacement chamfering blade)
1650X	Tool stop

#### C. 1700

Semi-con scorer for cable O.D. from 1/2" to 2". Adjustable blade depth from .001" to 100. Square and spiral cut,  
scores semi-con without damage to insulation. Leaf springs maintain constant pressure during operation.

Model	Features
1700	Adjustable blade with square cut/spiral cut
1700-SS	Adjustable blade scorer with square cut/spiral cut and dial locking set screw
1700-LC	Adjustable blade scorer with square cut/spiral cut - saddle relief for close-in cut
1700-SS-LC	Adjustable blade scorer with square cut/spiral cut and dial locking set screw - saddle relief for close-in cut
1678	Replacement blade - all tools

#### 1800

Semi-con scorer for cable O.D. from 1 3/4" to 3." Same features as the 1700.

Model	Features
1800	Adjustable blade with square cut/spiral cut
1800-SS	Adjustable blade scorer with square cut/spiral cut and dial locking set screw
1800-LC	Adjustable blade scorer with square cut/spiral cut - saddle relief for close-in cut
1801	Fixed blade scorer .037" with square cut/spiral cut
1801-1	Fixed blade scorer .046" with square cut/spiral cut
1801-2	Fixed blade scorer .055" with square cut/spiral cut
1801-3	Fixed blade scorer .064" with square cut/spiral cut
1678	Replacement blade - all tools

#### D. 2750

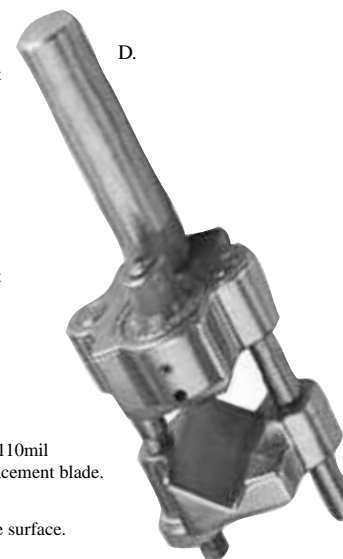
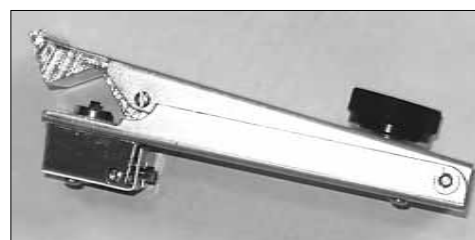
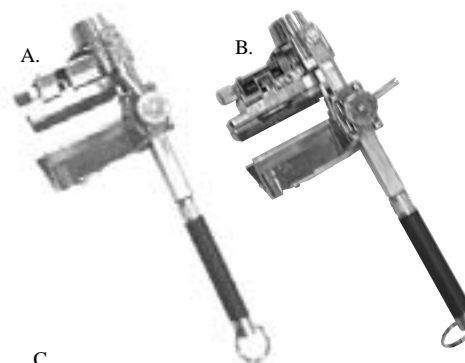
Secondary cable stripper for cable O.D. from .31" to 1.375." Strips 600 volt insulation (45mil to 110mil  
thickness), no bushings required with unlimited stripback length. #6 thru 1000 MCM. 2781 replacement blade.

#### BIT/TK120X-Q

Bushing insert tool with Tor-Key (fits all loadbreak bushing inserts). RK-1 Regrit kit for abrasive surface.

#### BIT/TK120X-N

Bushing insert tool with Tor-Key (fits all deadbreak bushing inserts).







## Stripping Tools

### Speed Systems

#### A. LPW1525

Probe installation tool for all 15kv and 25kv elbows and elastimold 35kv elbows.

#### LPW1525 / TK120X

Combination TK120 Tor-Key and probe tool for all 15kv and 25kv elbows and elastimold 35kv elbows.

#### B. LPW1525 / TK120x-N

Combination TK120 Tor-Key and probe tool with neutral winder. All 15kv and 25kv elbows and elastimold 35kv elbows. Neutral winder reduces neutral wire breakage while removing cable jacket.

#### C. Mark I

Primary cable insulation stripper for cable O.D. range 3/4" to 2." Comes with AO11 blade. Tool stop accessory for square cut optional.

#### Mark II

Primary cable insulation stripper for cable O.D. range 1 3/4" to 3." Comes with AO11 blade. Tool stop accessory for square cut optional.

#### Mark III

Primary cable insulation stripper for cable O.D. range 2 3/4" to 4." Comes with AO10 blade. Tool stop accessory for square cut included.

#### Mark Tool Accessories

- A010 Wedge blade (69-138kv XLP, standard with Mark III, if desired on Mark II, add "-10")
- A011 Wedge blade (15-35kv XLP)
- A012 Straight blade (15-35kv EPR)
- A013 Shaving blade without bracket (bonded semi-con)
- A013X Shaving blade with bracket (bonded semi-con)

#### D. SC-11

Semi-con edge wedge with finger grip. Ergonomic safety grip. Stainless steel blade, comes with a plastic sheath.

#### SC-13

Semi-con roller grip. Broad nose for rolling semi-con, serrated jaws for maximum grip, rugged plastic covered handles.

#### PT1525

Elbow/cap pulling tool for 15kv and 25kv elbows and caps. Also for elastimold 35kv elbows and caps.

#### PT35

Elbow/cap pulling tool for Cooper (RTE) and Hubbell (Chardon) 35kv elbows and caps.

### Greenlee

#### E. 1905

Adjustable Cable Stripper. For mid span and end termination. Strips TW, THW, THWN, THHN and similar single layer insulation. Fast-close jaws and twist. Quick size and insulation adjustments, snap action for same cutting depth time after time.

Capacity - 1/0 to 1000 MCM

Weight - .9lb.

### Klein

Automatic Wire Stripper. One light squeeze strips wire from No. 10 to 22 AWG, up to a full 1" without nicking, cutting or fraying the wire.

Blades available from 8 to 12 AWG and 16 to 26 AWG. Overall length is 6 1/2".

#### Part Strips AWG Gauges

- 11062 10, 12, 14, 16, 18, 20, 22
- 11070 Replacement Blades for 8, 10, 12
- 11072 Replacement Blades for 10, 12, 14, 16, 18, 20, 22
- 11075 Replacement Blades for 16, 18, 20, 22, 24, 26

A.



B.



C.



D.



E.





## Drills and Bits

### Greenlee

#### A. Nail Eater II Impact Bits

Quickly bore through creosoted and salt treated utility poles.

Resists wear, eats through nails and staples.

7/16" hex shank to fit impact drivers. Available in 18" overall length.

#### Model Dia. (in)

37868	9/16
37869	11/16
37870	13/16
37871	15/16

B.

A.

### Irwin

#### B. 43907

18" auger bit extension, 7/16" hex shank bit.

#### C. Utility Pole Impact Wrench Auger Bits

47909	9/16" utility pole impact wrench auger bit, 7/16" hex shank, 18"
47911	11/16" utility pole impact wrench auger bit, 7/16" hex shank, 18"
47913	13/16" utility pole impact wrench auger bit, 7/16" hex shank, 18"
47915	15/16" utility pole impact wrench auger bit, 7/16" hex shank, 18"
47917	1 1/16" utility pole impact wrench auger bit, 7/16" hex shank, 18"
48211	11/16" utility pole impact wrench auger bit, 7/16" hex shank, 24"
48213	13/16" utility pole impact wrench auger bit, 7/16" hex shank, 24"
48215	15/16" utility pole impact wrench auger bit, 7/16" hex shank, 24"

#### D. Long Ship Impact Wrench Auger Bits

48711	11/16" long ship impact wrench auger bit, 7/16" hex shank, 18"
48713	13/16" long ship impact wrench auger bit, 7/16" hex shank, 18"
48715	15/16" long ship impact wrench auger bit, 7/16" hex shank, 18"

#### E. Utility Pole Auger Bits

46607	3/8" utility pole auger bit, 18"
46611	11/16" utility pole auger bit, 18"
46613	13/16" utility pole auger bit, 18"
46615	15/16" utility pole auger bit, 18"

#### F. Power Pole Auger Bits

46911	11/16" power pole auger bit, 7/16" hex shank, 23"
46913	13/16" power pole auger bit, 7/16" hex shank, 23"
46914	7/8" power pole auger bit, 7/16" hex shank, 23"
46915	15/16" power pole auger bit, 7/16" hex shank, 23"
47011	11/16" power pole auger bit, 7/16" hex shank, 29"
47013	13/16" power pole auger bit, 7/16" hex shank, 29"
47015	15/16" power pole auger bit, 7/16" hex shank, 29"
47017	1 1/16" power pole auger bit, 7/16" hex shank, 29"

#### G. Long Ship Auger Bits

47311	11/16" long ship auger bit, 7/16" hex shank, 17"
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#### H. Long Solid Center Wood Auger Bits

47711	11/16" long solid center wood auger bit, 18"
47713	13/16" long solid center wood auger bit, 18"
47714	7/8" long solid center wood auger bit, 18"

### B&A Mfg.

#### "The Eliminator" Carbide Tip 24" Wood Auger Bits – 7/16" Hex

ER72109	9/16"
ER72111	11/16"
ER72113	13/16"
ER72115	15/16"





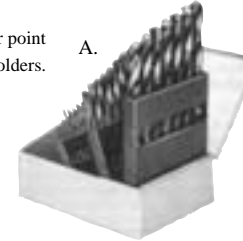
## Drills and Bits

### Klein

**A. 53000** 29 piece regular point drill bit set. Consists of all 29 black-oxide finished, jobber-length, regular point 118 degree drill bits, size 1/16" through 1/2" by 64ths, inclusive. Hinged metal box with three stand-up bit holders.

**53001** 15 piece regular point drill bit set. Consists of all 15 black-oxide finished, jobber-length, regular point 118 degree drill bits, size 1/16" through 1/2" by 32nds, inclusive. Hinged metal box with three stand-up bit holders.

**53002** 13 piece regular point drill bit set. Consists of all 13 black-oxide finished, jobber-length, regular point 118 degree drill bits, size 1/16" through 1/4" by 64ths, inclusive. Hinged metal box with three stand-up bit holders.



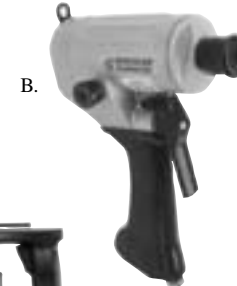
### Fairmont

**B. 48330** Impact wrench 7/16" hex quick change chuck, and 1/2" drive. "Super Spool" for Open-and Closed-Center operation. Prevents overspeeding, allows flows up to 12gpm. Reversible operation. Operating pressure 1,000 - 2,500 psi. Torque 400ft-lbs at 8gpm.

**48755** Variable torque control impact wrench 7/16" hex quick change chuck, and 1/2" drive. Super Spool" for Open- and Closed-Center operation. Prevents overspeeding, allows flows up to 12gpm. Reversible operation. Operating pressure 1,000 - 2,500 psi. Torque 400ft-lbs at 8gpm.

**54923** HTMA male coupler

**54925** HTMA female coupler



### Burndy/Racine

**C. HIW716VT** Variable torque impact wrench easily allows the operator to select the power needed for drilling or hardware installation. Full torque 500ft-lbs while providing the operator the option to decrease torque to 200ft-lbs for hardware installation.



### Hilti

#### D. Combihammer TE 55

115v combination hammer/chipper. Used carbide tipped masonry bits from 1/2" to 1 1/4", core bits 1 1/2" to 3 9/16", and cruciform bits from 1 1/2" to 2".

**E. TE 505** 115v lightweight chipping hammer. Chisel position adjusts to 12 positions for easy access in tight places. Padded rear grip for added operator comfort, rocker switch with lock-on button.



### Tanaka

**F. TED-262R** 1.3hp gas powered reversible drill. Dual position front handle can be mounted on either side for added versatility.

### Apex Bits

#### G. QR-514

1/2" Hex x 7/16" Quick Releasing Chuck Female.

#### H. QR-520

1/2" Hex x 5/8" Quick Releasing Chuck Female.

#### I. QRF-14

1/2" Hex x 7/16" Female Threaded Drive.

G. H. I.



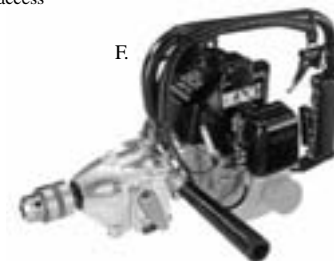
### Fairmont

**J. Low Pressure Hydraulic Hoses** Certified non-conductive orange rubber, double braid-working pressure 2,250psi tested to 75kvt/ft for 5 minutes.

#### Model Description

135245 3/8" x 8' hose with 3/8" NPTF male fittings.

135247 3/8" x 10' hose with 3/8" NPTF male fittings.





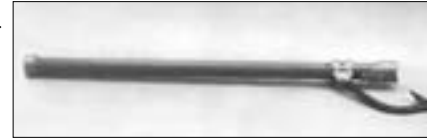
## Pole Handling Equipment

### AB Chance

#### A. C305-0008

Epoxiglass cant hook with a high carbon steel hook.  
The gripper casting incorporates 2 sets of teeth for improved grip on all pole sizes.

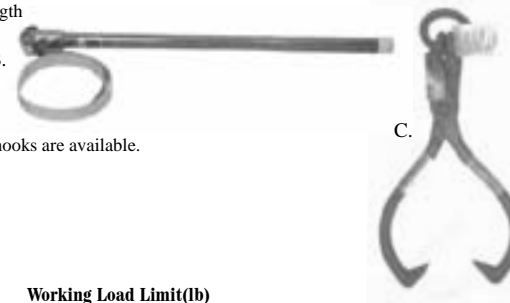
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#### B. C305-0021

Pole wrench performs the functions of both a cant hook and a pole tong without spiking the pole. Nylon-web strap (1 3/4"x6") rated at 7,500lb tensile strength securely grips poles, even large diameter poles.

B.



C.

### Dixie Industries

#### Peavy - Solid Socket

Duckbill hook, hardwood handle, tubular steel socket, and driven pick.  
Approximately 2 1/2" diameter, lengths range from 3ft to 5ft. Extra large hooks are available.

#### Peavy - Rafting or Bangor

Duckbill hook, hardwood handle, and one piece socket & pick.  
2 1/2" diameter, available in 4ft, 4.5ft, and 5ft lengths.

#### C. Timber Lifting Tongs

Alloy steel proof tested and painted orange.

Model	Diameter (in)	Min. Opening (in)	Max. Opening (in)	Working Load Limit(lb)			Approx Wt. (lb)
				75 Degrees	135 Degrees	180 Degrees	
40008	3/4	3 3/4	16	1500	1000	750	6.97
40218	1	4	20	2500	2000	1500	16.45
40228	1	4 1/2	25	2500	2000	1500	16.45
40458	1 1/4	7	32	3000	2500	2000	36
40558	1 1/2	7 1/2	36	5000	4000	3000	50.5

### Oshkosh

#### D. Peavies

Model	Description	Hook Size
134	2 1/4" x 4'	3 1/2" x 8"
135	2 1/4" x 4-6'	3 1/2" x 8"
136	2 1/4" x 5'	3 1/2" x 8"
137	2 1/2" x 4'	3 1/2" x 9"
137-483	2 1/2" x 4'	3" x 10 1/2"
138	2 1/2" x 4-6'	3 1/2" x 9"
138-4645	2 1/2" x 4-6'	1/2" x 10 1/2"
139	2 1/2" x 5'	3 1/2" x 9"

D.



E.



### Oshkosh

#### E. Cant Hooks

Model	Description	Hook Size
200	2 1/2" x 4 1/2"	3 1/2" x 9"
201	2 1/2" x 5"	3 1/2" x 9"
201-484	2 1/2" x 5"	3" x 12 1/2"

Please call for other sizes.

### Peavey

#### Peavies

**F. T-029-048-0122** 2 3/8" x 4' Peavy

**T-029-054-0123** 2 3/8" x 4 1/2' Peavy

#### Bangor Rafting Peavey

**G. T-029-054-0175** 2 3/8" x 4 1/2' Cant Hook

**T-029-060-0176** 2 3/8" x 5' Cant Hook

**T-029-060-0177** 2 3/8" x 5 1/2' Cant Hook

F.



G.





## Pole Handling Equipment

### Oshkosh Skidding / Lifting Tongs

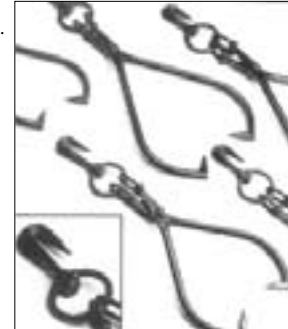
#### A. Skidding Tongs

Model	Description	Opening
384A	1"x16" Tong w/Ring	16"
384B	1"x21" Tong w/Ring	21"
384	1"x24" Tong w/Ring	24"
385	1 1/8"x32" Tong w/Ring	32"
386	1 1/4"x36" Tong w/Ring	36"

#### Tongs with Rings and Swivel Hooks

Model	Description	Opening
378	1"x16" Tong/Hook	16"
379	1"x21" Tong/Hook	21"
380	1"x24" Tong/Hook	24"
381	1 1/8"x32" Tong/Hook	32"
382	1 1/4"x36" Tong/Hook	36"

A.



### AB Chance Pike Poles

#### B. 214PH

Epoxiglass pike pole. The point, secured by a spring-button lock, can be reversed to protect point and avoid damage to equipment when not in use. Does not absorb moisture so it will not rot or warp.

Model	Pole Diameter & Length	Approx Weight (lb)
214PH	2"x14'	10.5
216PH	2"x16'	11.75
218PH	2"x18'	13

B.



### Oshkosh Pike Poles

#### C. Pike Poles

Model	Description	Pike/Hook
806G	2"x12' Fir w/Finish and Guard	Twisted Collar Pike
807	2"x14' Fir	Twisted Collar Pike

Please call for other sizes.

C.



### Thiermann Industries

**D.1025A Pole Dolly** For moving poles in and out of hard to reach areas, such as residential back yards. Hi-strength steel, tubular construction, and tapered roller bearing are used to construct this lightweight, compact, durable unit with a load capacity of 2200 pounds.

**E. 4001D Pole Puller** Pole puller with 46,400lb of lift at 2600 PSI.

Power it off your digger derrick, or a portable gas/hyd pump. 6ft 1/2" alloy chain.

#### Specifications:

Lifting Capacity-50,120 lbs, Stroke-16 in,  
Weight-57 lbs, Operating Pressure-2800 psi.

E.



### Greenlee

**F H4910A Pole Puller** Heavy duty construction,

works in confined areas next to buildings or in the open. Open-and closed-center systems.

Comes with 6ft alloy chain.

#### Specifications:

Lifting Capacity	56,000 lbs
Stroke	16.8 in
Weight	101 lbs
Height	32 in
Flow Range	4-15 gpm
Operating Pressure	300-2800 psi
Pressure Port Thread	1/2 in NPTF
Return Port Thread	1/2 in NPTF

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D.

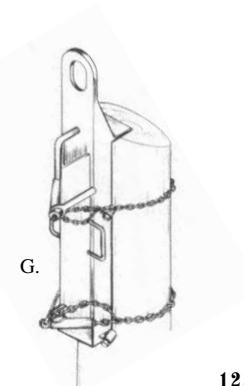


### Safety Line

**G. Pole Draw Bar** The pole draw bar attaches to the pole by placing the end stop of the bar against the end of the pole. Secure the bar to the pole with the two chain screw binders affixed to the bar. The pole draw bar is supplied with lifting handles on each side and a safety loop through which a chain is attached. The oval hole is large enough to fit all hitches.

Model	Description	Weight
9300	Pole Draw Bar (complete)	60lb
930HP	Pole Draw Bar with Bolt Hole and One Chain Binder	60lb

G.





## Anchor Tools

### AB Chance

PISA Anchor Installing Tools

For installing torques up to 10,000ft-lb.

#### A. Kelly Bar Adapter

Kelly Bar Adapter with Bent Arm Pin (5 1/4" bolt circle)

Part	Kelly Bar Shape	Kelly Bar Size	Wt. (lb)
630017	Square	2 1/2"	10
630016	Square	2 1/4"	10
630013	Hex	2"	10
630012HD	Hex	2 5/8"	12
630011HD	Hex	2 1/2"	12

Standard kelly bar adapters have six 1/2" dia holes on a 5 1/4" bolt circle and include six 1/2" bolts, nuts, lock washers, and bent arm pin with coil lock.

#### B. Standard Locking Dog Assembly

Part	Description	Wt. (lb)
C303-0069HD	Complete standard locking dog assembly	20
C303-0070	Locking dog replacement kit includes parts necessary to replace both lock dogs	4

Standard locking dog assembly has six 1/2" holes on 5 1/4" bolt circle and includes six 1/2" grade 5 bolts, nuts, and lock washers.

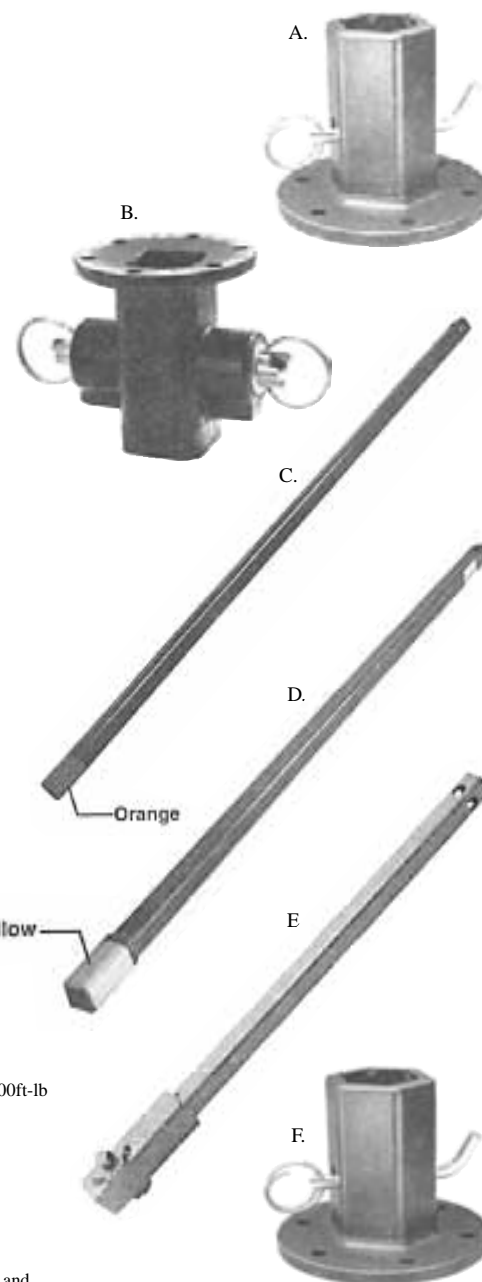
#### 7ft Drive-End Wrench

Part	Description	Wt. (lb)
<b>C.</b> C102-1583	Standard drive end wrench installs: 8,000ft-lb (small hub) Tough-One anchors 10,000ft-lb (small hub) Tough-One anchors 4,000ft-lb standard strength PISA anchors 6,000ft-lb mid strength PISA anchors	57
<b>D.</b> C303-1064	Hybrid drive-end wrench installs: 8,000ft-lb (large hub) Tough-One anchors 6,000ft-lb PISA 6 anchors 7,000ft-lb PISA 7 anchors 3 1/2ft Drive-End Wrench	64
<b>Part</b>	<b>Description</b>	<b>Wt. (lb)</b>
C102-1595	Standard drive end wrench installs: 8,000ft-lb (small hub) Tough-One anchors 10,000ft-lb (small hub) Tough-One anchors 4,000ft-lb standard strength PISA anchors 6,000ft-lb mid strength PISA anchors	29
C303-1063	Hybrid drive-end wrench installs: 8,000ft-lb (large hub) Tough-One anchors 6,000ft-lb PISA 6 anchors 7,000ft-lb PISA 7 anchors Extension Wrench for above Standard and Hybrid drive-end wrenches	28
<b>E.</b> 630027	3 1/2ft extension	42
630028	7ft extension	70

**F. Tough-One Anchor Installing Tools.** For installing torques up to 15,000ft-lb  
Tough One Kelly Bar Adapter with Bent Arm Pin (7 5/8" bolt circle)

Part	Kelly Bar Shape	Kelly Bar Size	Wt. (lb)
C303-0936	Hex	2 1/2"	23
C303-0937	Hex	2 5/8"	23
C303-0940	Hex	3"	27
C303-0955	Square	2 1/2"	22
C303-0958	Square	3"	23

Tough One kelly bar adapters have twelve 5/8" dia holes on a 7 5/8" bolt circle and include twelve 5/8" bolts, nuts and lockwashers and bent arm pin with coil lock.





## Anchor Tools

### AB Chance

#### A. Mechanical Torque Indicator

Part	Description	Wt. (lb)
C303-1340	Torque indicator adaptable to 5 1/4" B.C. or 7 5/8" B.C.	65

#### B. Tough One Locking Dog Assembly

Part	Description	Wt. (lb)
C303-0981	Complete Tough-One locking dog assembly	28
C303-1026	Locking dog replacement kit includes all parts less casting	5

Tough-One locking dog assembly has twelve 5/8" holes on a 7 5/8" bolt circle and includes twelve 5/8" grade 2 bolts, nuts and lockwashers.

#### C. Tough One Drive-End Wrenches

Part	Length	Description	Wt. (lb)
C303-0982	3 1/2ft	Installs 15,000ft-lb (large hub) Tough One	36
C303-0983	7ft	Anchors 8,000ft-lb (large hub) Tough One and all 1 1/2" Core anchors	73

Tough One ends are painted with a red band on the bottom.

#### Extension Assemblies for Tough One Drive-End Wrenches

Part	Length	Description	Wt. (lb)
C303-0987	3 1/2ft	Extension attaches to drive-end wrench when	53
C303-0988	7ft	Additional depth is required.	89

#### D. Bolt Circle Adapters for Torques up to 10,000ft-lb

Used to connect two tools having incompatible bolt circles.

Part	Description	Wt. (lb)
C303-0115	Bolt circle adapter with two 1/2"x5 1/4" bolt circles	11
T303-0166	Bolt circle adapter with one 1/2"x5 1/4" bolt circle and one 5/8"x7 5/8" bolt circle	18

#### E. Drive Tool Adapter

Slide into locking dog adapter and are retained by spring loaded dogs.

Part	Description	Unit Fits	Wt. (lb)
C303-0020	SS5/SS150/RR Drive Tool	Standard locking dog assembly	8
C303-1035	SS5/SS150/RR Drive Tool	Tough One locking dog assembly	11
T303-1403	SS175 Drive Tool	Tough One locking dog assembly	26
C303-1077	SS200 Drive Tool	Tough One locking dog assembly	23

#### F. Mechanical Torque Indicator

For installing torques up to 20,000ft-lb

##### C303-1340

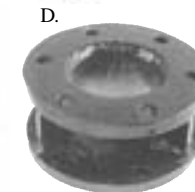
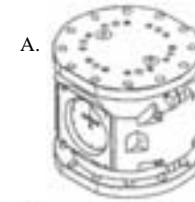
Easy to read, gives direct readout at all times. Has six 1/2" 13 tapped holes on a 5 1/4" bolt circle and twelve 5/8" 11 tapped holes on a 7 5/8" bolt circle, each end.

#### G. Shear Pin Torque Limiter

For installing torques up to 10,000ft-lb.

##### C303-0044

Protection for anchors and installing tools by disconnecting the power when the installing torque reaches a preselected level. Has six 1/2" 13 tapped holes on a 5 1/4" bolt circle, both ends.



F.



G.





## Digging Tools

### Nupla Shovels

**A. 69-048**

Round point hollow back shovel. 48" handle. Classic series.

**B. 69-620**

Round point closed back heavy gauge shovel. 48" handle. Classic series.

**C. 72-014**

Round point hollow back shovel. "Ladies shovel". E-series

**D. 72-061**

Round point heavy gauge shovel. 48" handle. E-series.

**E. 72-065**

Round point closed back shovel. 48" handle. E-series.

**F. 69-748**

Square point closed back shovel. 48" handle. Classic series.

**G. 72-079**

Square point closed back shovel. 48" handle. E-series.

**H. 72-095**

16" drain spade hollow back shovel. 48" handle. E-series.

**I. 72-212**

Trenching shovel with 5" blade. 48" handle. E-series.

### Oshkosh Shovels & Spoons

**J. Shovels**

**1005H**

7ft spoon with maple handle.

**1007**

9ft spoon with ash handle.

**1008**

10ft spoon with ash handle.

**2033**

8ft straight shovel with ash handle.

**2034**

9ft straight shovel with ash handle.

**2035**

10ft straight shovel with ash handle.

**2035-6**

10ft straight shovel with ash handle and 6" blade.

**2036**

12ft straight shovel with ash handle.

### Peavey Spoons

**L. TE-019-120-0803**

10ft straight telegraph spoon.

Has a 22" steel strap and fitted with 1 3/4" diameter ash handle.

**TE-019-144-0804**

12ft straight telegraph spoon.

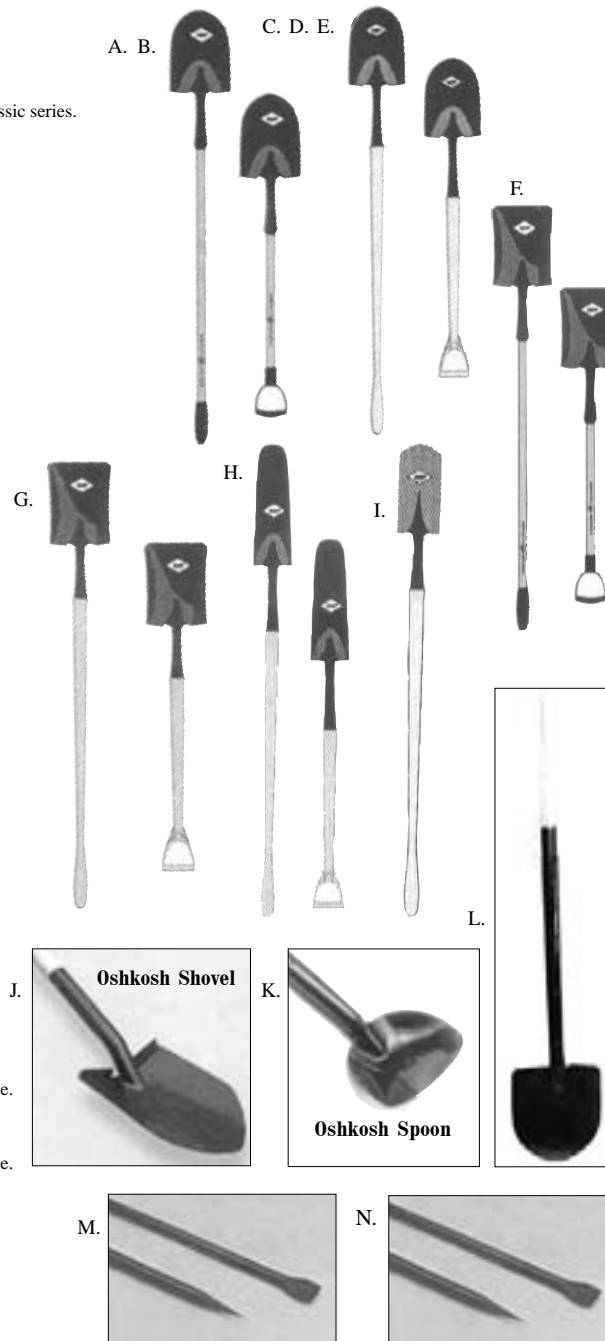
Has a 22" steel strap and fitted with 1 3/4" diameter ash handle.

### Nupla Digging Bar

**M. 69-296** 6ft bar-point and wedge digging bar with fiberglass handle.

### Oshkosh Digging Bar

**N. 1061 1065 1066 1067**  
1" x 7' 1 1/8" x 8' 1 1/8" x 9' 1 1/8" x 10'







## Digging Tools

### Peavey Digging Bar

**S-007-191-0885**

1"x8' digging and crow bar made of hexagon tool steel.  
Forged into a 2" chisel for digging, and a pencil point for digging.

### Oshkosh Post Hole Digger

**A. 2050**

8ft split handles post hole digger.  
Approximately 6" diameter hole is produced.

### Oshkosh Tamp Bar

**B. 1054**

7ft heavy tamp bar. 8 lb.

**1055**

8ft heavy tamp bar. 9 lb.

**1056**

9ft heavy tamp bar. 11 lb.

**1056EHT**

9ft extra-heavy tamp bar. 16 lb.

**1057**

10ft heavy tamp bar. 12 lb.

### Greenlee/Fairmont Tampers

**C.** Hydraulic pole tamp makes quick work of setting poles, asphalt patch and general construction backfill compacting. Reversible on/off valve for open and closed-center systems. Standard with kidney foot. 4" wide, flow range 4-6 gpm, operating pressure 1,000-2,000 psi, blows per minute 1,160 @ 5gpm.

Models	Description
H4802	60" pole tamp
H4802-1	85" pole tamp
54923	HTMA male coupler
54924	HTMA female coupler

### Peavey Tamp Bar

**D. TE-015-096-0821**

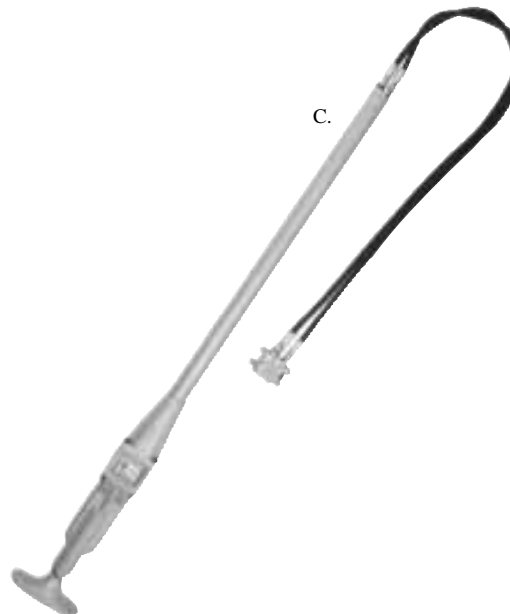
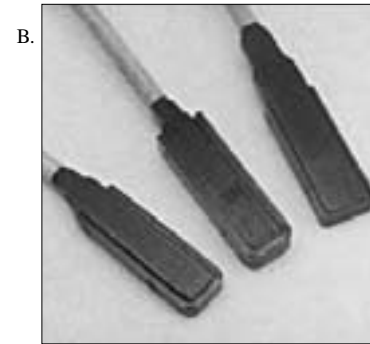
8ft heavy shoe tamping bar.  
Has a 1 1/2"x4" surface and is fitted with an 1 1/2" diameter ash handle.

**TE-015-108-0822**

9ft heavy shoe tamping bar.  
Has a 1 1/2"x4" surface and is fitted with an 1 1/2" diameter ash handle.

**TE-015-120-0823**

10ft heavy shoe tamping bar.  
Has a 1 1/2"x4" surface and is fitted with an 1 1/2" diameter ash handle.





## Digging Tools

### Burndy/Racine Tampers

#### A. HPTR1 Series

Hydraulic pole tamp available with or without On/Off control valve. Patented valving permits impacting of the ram within the tamper. Stroke amplitude of 1 5/8". Stroke frequency of 1375 blow/min is ideal for compacting around poles, posts, footings, and other objects. Interchangeable heavy duty tamper shoes allows for flexibility.

##### With On/Off Valve

Model	Overall Length	Weight
HPT-60-RI	60"	29 lb.
HPT-72-RI	72"	30 lb.
HPT-84-RI	84"	32 lb.
HPT-96-RI	96"	34 lb.

##### No On/Off Valve

Model	Overall Length	Weight
HPT-59-RI	59"	26 lb.
HPT-71-RI	71"	28 lb.
HPT-83-RI	83"	31 lb.

### Pengo

#### B. Auger Teeth

##### 1650

Standard dirt auger tooth for ordinary digging.

##### 1656

Tungsten carbide round auger tooth for high abrasion, frozen soil, low impact applications.

##### 1658

Carbide gauge for abrasive soil, impact applications.

##### 2070

Dirt tooth

##### 2077

Dirt tooth

##### PFC-5

Carbide faced tooth for step rock augers.

##### RSK-20

Bullet-style shank plate & pilot kit.

### Wisman Ent. Inc.

#### C. Twist Tarp

A TWISTARP is a wide flat lifting sling that is available in a variety of sizes and rated capacities to fit your needs. TWISTARP is an inexpensive tool that will lessen the physically demanding efforts of utility workers in the field, making their job easier, cleaner and faster. Filling in around poles becomes easy, fast, and simple. Ditch banks, weeds, and tall grasses are no longer a struggle. When used as a dirt-sling, TWISTARP transports crushed rock, sand, dirt, wet cement, dig-spoils, and oil contaminated soil. Materials are transported in the utility tarp, leaving the transport vehicle clean. As a utility blanket, TWISTARP keeps materials, tools, and personnel out of the weeds, the mud and the snow. The utility blanket keeps lawns, landscaping, driveways, sidewalks, streets, and right-of-way clean. TWISTARP is great for use in terminating transformers, pedestals, and installing underground gas and telephone lines because it keeps material and tools clean. You'll never search for tools and materials in weeds, grass, mud, or snow again. When the job is incomplete, dirt can be transported with a TWISTARP to a warm, dry place for replacement at a later time. No more frozen dirt to shovel. TWISTARP replaces rock boxes and barrels, plywood, and creepers. Because it is small and easy to store, it is always with you.

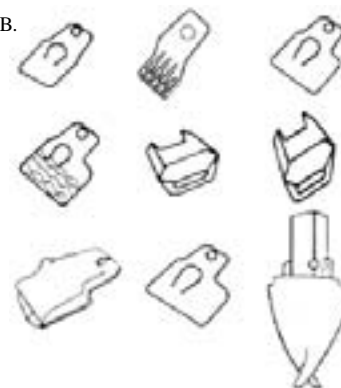
##### Standard Sizes

4x4B covers 16 square feet. Holds 9 cubic feet volume. Lifts 500 lbs.  
 6x6B covers 36 square feet. Holds 14 cubic feet volume. Lifts 500 lbs.  
 6x6R covers 36 square feet. Holds 14 cubic feet volume. Lifts 700 lbs.  
 7x7R covers 49 square feet. Holds 21 cubic feet volume. Lifts 1100 lbs.  
 8x8R covers 64 square feet. Holds 34 cubic feet volume. Lifts 1400 lbs.

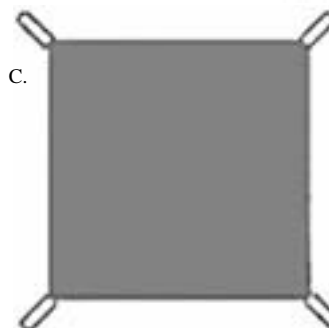
A.



B.



C.

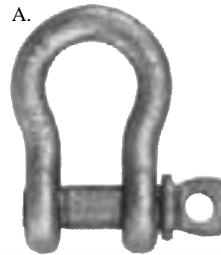




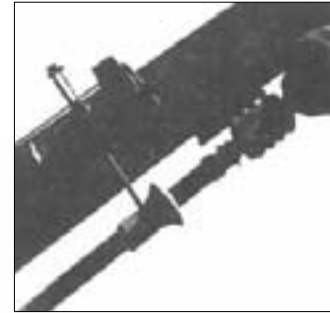
## Slings

### Campbell Shackles

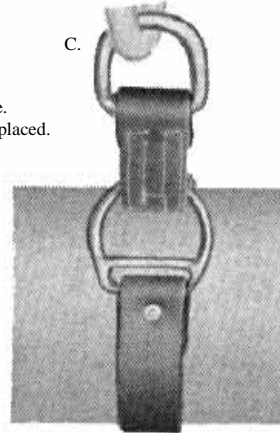
A. 541-0435	1/4" screwpin anchor shackle
541-0535	15/16" screwpin anchor shackle
541-0635	3/8" screwpin anchor shackle
541-0735	7/16" screwpin anchor shackle
541-0835	1/2" screwpin anchor shackle
541-1035	5/8" screwpin anchor shackle
541-1235	3/4" screwpin anchor shackle
541-1435	7/8" screwpin anchor shackle
541-1635	1" screwpin anchor shackle
541-1835	1 1/8" screwpin anchor shackle
541-2035	1 1/4" screwpin anchor shackle



B.



C.



### Hastings Nylon

#### B. Nylon Auger Slings

Nylon webbing, will not kink or curl.

Provides smooth trouble free operation - works at any angle.

Interwoven red yarn lets you know when sling should be replaced.

##### Model Length

##### 2100 lb Vertical Rating

3840	8ft 6in
3841	9ft
3842	10ft

##### 2800 lb Vertical Rating

3843	8ft 6in
3844	9ft
3845	10ft

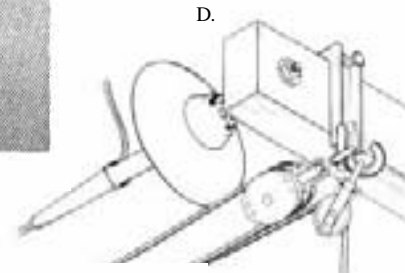
### Klein Nylon

#### C. Pole Sling

Made of 2" wide nylon web stitched with nylon thread.

Copper rivets with burrs at the point of wear. Use where a running loop wrap around pole is desired. **THIS IS NOT AN OCCUPATIONAL PROTECTIVE DEVICE. NOT FOR HUMAN SUPPORT.**

Model	Working Load	Length
5606	Choke Hitch: 3000lb	30 in
	Basket Hitch: 4700lb	



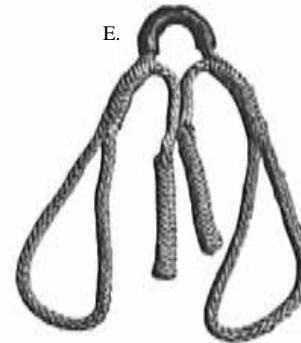
### Safety Line Fabricated

#### D. Fabricated Arm Slings

Used as an all-purpose sling for non-energized and live line work, the fabricated arm sling is made to fit snugly over the arm by using the filler plates (included) to adjust the opening. Weight. 6 lb.

Model	Opening Size (in)	SWL (2:1 Ratio) (lb)
26E	4x6	2000
26G	5x6	2000
26K	6x6	2000
26H	6 1/8x8	2000

E.



### Safety Line Rope

#### E. Transformer Slings

Has eye on each end. Adjustable from 3" to 15" to accommodate various sizes and types of transformers. Chafe collar in middle of sling protects against abrasion and snagging. Each end has a crown splice to prevent eye from pulling out while under load. Standard length is 4ft. Adjustable from 24" to 48". Other lengths available. Rope is 100% high tenacity polyester, constructed in a single braid and coated with Rhino-Kote for increased abrasion resistance.

Model	Diameter (in)	Tensile (straight pull) (lb)	SWL (lb)	Weight (lb)
S0190L0048	1/2	7200	1225	1 1/2
S0191L0048	5/8	12000	2160	2



## Slings

### Nylon Slings

#### A. Eye & Eye

This style of lifting sling is the most popular type based on cost and versatility. Cordura eye protection is added to the inside of each eye for added durability. Tapered eyes are standard on slings 3" wide and over. Type 3 has flat eyes which provide for both vertical and basket pick applications. Type 4 has twisted eyes which allow for choker applications as well as vertical and basket picks.

Sling Width (in)	Eye Type 3 Model	Eye Type 4 Model	Eye Width (in)	Rated Length (in)	Choker (lb)	Vertical (lb)	Basket (lb)
1	EE1601	EET1601	1	9	960	1200	2400
1	EE1901	EET1901	1	9	1280	1600	3200
1	EE2601	EET2601	1	9	1920	2400	4800
1	EE2901	EET2901	1	9	2560	3200	6400
1	EE4601	EET4601	1	12	3360	4200	8400
1	EE4901	EET4901	1	12	4960	6200	12440
2	EE1602	EET1602	2	9	1920	2400	4800
2	EE1902	EET1902	2	9	2570	3200	6400
2	EE2602	EET2602	2	9	3840	4800	9600
2	EE2902	EET2902	2	9	5120	6400	12800
2	EE4602	EET4602	2	12	6400	8000	16000
2	EE4902	EET4902	2	12	8800	11000	22000
3	EE1603	EET1603	1.5	9	2880	3600	7200
3	EE1903	EET1903	1.5	9	3840	4800	9600
3	EE2603	EET2603	1.5	12	5280	6600	13200
3	EE2903	EET2903	1.5	12	7040	8800	17600
3	EE4603	EET4603	1.5	16	9600	12000	24000
3	EE4903	EET4903	1.5	16	12800	16000	32000
4	EE1604	EET1604	1.5	12	3840	4800	9600
4	EE1904	EET1904	1.5	12	5120	6400	12800
4	EE2604	EET2604	1.5	12	6880	8600	17200
4	EE2904	EET2904	1.5	12	8960	11200	22400
4	EE4604	EET4604	2	16	12800	16000	32000
4	EE4904	EET4904	2	16	15840	19800	39600
5	EE1905	EET1905	1.75	12	6400	8000	16000
5	EE2905	EET2905	1.75	12	10960	13700	27400
6	EE1906	EET1906	2	16	7680	9600	19200
6	EE2906	EET2906	2	16	13200	16500	33000
6	EE4906	EET4906	3	20	23840	29800	59600
8	EE1908	EET1908	3	18	10240	12800	25600
8	EE2908	EET2908	3	18	17600	22000	44000
10	EE1910	EET1910	3.5	22	12800	16000	32000
10	EE2910	EET2910	3.5	22	19200	24000	48000
12	EE1912	EET1912	4	24	15360	9200	38400
12	EE2912	EET2912	4	24	23200	29000	58000

We also provide wire rope slings made to your requirements.

#### B. Endless Round Slings

Multipurpose synthetic lifting sling. Super flexible, conforms to shape of load, flattens and grabs the load securely. Won't mar painted or polished surfaces. Maximum temperature 194 degrees.

Model	Color	Vertical (lb)	Choker (lb)	Basket (lb)	Min Length (ft)
E30	Purple	2650	2120	5300	3
E60	Green	5300	4240	10600	3
E90	Yellow	8400	6720	16800	3
E120	Tan	10600	8500	21200	3
E150	Red	13200	10560	26400	3
E180	Orange	16800	13440	33600	6
E240	Blue	21200	17000	42400	6

A.



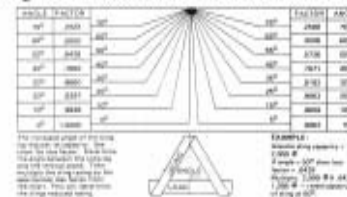
### HOW TO ORDER



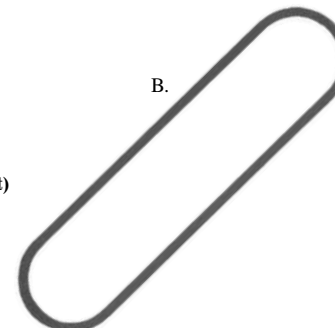
### OPTIONS

EYE LENGTH	STEEL OR ALUMINUM HARDWARE
TYPE OF MATERIAL	COATINGS
WEAR PADS	END FITTINGS
PROOF LOADED	SPECIAL TAGGING

### Sling STRENGTH LOSS at various angles



B.





## Slings

### Yale Rope

#### A. Eye/Eye

Standard eye and eye sling for general purpose work. Lightweight, very flexible, nonmarring and very strong. Available sizes from 3/8" to 1 1/2". Available in Double Esterlon, Polydyne, Yalex, and Vectrus.

#### Endless Slings

A complete loop increases the lift capacity without going to a larger diameter line. Makes an excellent choker with a wider "footprint" on the load for more positive control. Available sizes from 3/8" to 1 1/2". Available in Double Esterlon, Yalex, and Vectrus.

#### Adjustable Slings

Easily replaces a variety of different length slings accommodating a variety of different sized loads. Infinitely adjustable. Available sizes from 3/8" to 1". Available in Polyplus, Yalex, and Vectrus.

#### 4-Leg Adjustable

Each leg adjusts to accommodate any size load or lift point arrangement. Lifts can be made safely on any 2 legs, 3 legs, or all 4. Available sizes from 3/8" to 1". Available in Polyplus, Yalex, and Vectrus.

### Skookum Shackle

#### B. Anchor Screwpin Shackles

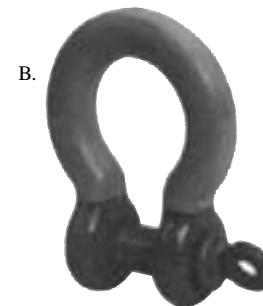
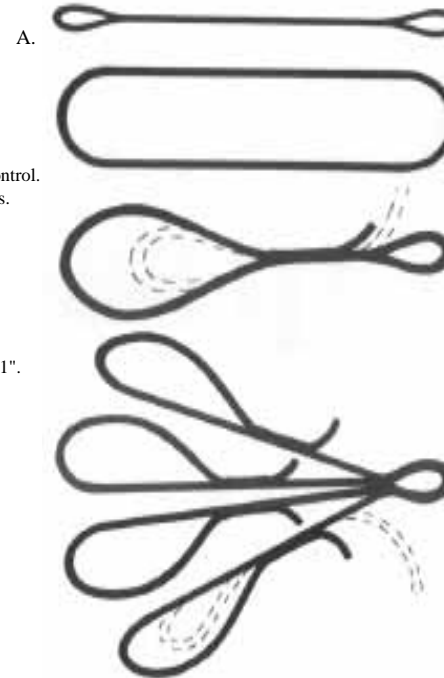
Size (in)	SWL (tons)	Nominal D (in)	W (in)
1/2	5	5/8	13/16
5/8	7	3/4	1 1/16
3/4	9	7/8	1 1/4
7/8	12	1	1 7/16
1	16	1 1/8	1 11/16
1 1/8	18	1 1/8	1 13/16
1 1/4	21	1 1/4	2 1/32
1 3/8	26	1 3/8	2 1/4
1 1/2	31	1 1/2	2 3/8
1 5/8	35	1 5/8	2 5/8
1 3/4	41	1 3/4	2 7/8
2	52	2	3 1/4
2 1/4	67	2 1/4	3 7/8
2 1/2	82	2 1/2	4 1/8
2 3/4	104	2 3/4	4 1/2
3	117	3	5
3 1/2	150	3 1/2	5 3/4
4	175	4	6 1/2
4 1/2	210	4 1/2	7 1/4

### Safety Line Line Hooks

#### C. Line Hooks

Steel line hooks designed to hug the conductor when strain is applied to rope after splicing rope into the eye. Hooks will not damage conductor or fall off, and are easily applied and removed.

Model	Description	Opening Size (in)	SWL (lb)	Wt. (lb)
27	Small	7/8	1000	1
27A	Medium	1 1/2	1325	2
27S	Large	2	1650	3





## Rope

### Condux

#### A. Poly Line Pail

Line attaches to the back of a foam carrier, inflatable carrier, or line carrier and is used to pull back a rope. Packaged in a weather-proof reusable plastic bucket with lid.

Part	Break Strength	Length
8561285	200 lb.	6,500ft
8561297	450 lb.	2,500ft

A.



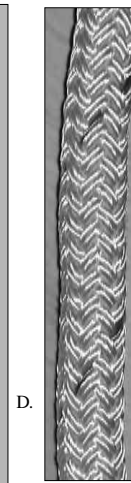
### Hooven Allison

#### B. Handline Magnus P/D

A 3 strand twisted blended rope consisting of polyester and polypropylene cover yarns over polypropylene core yarns. Excellent all-around abrasion resistance because of the polyester cover. A black tracer in one strand is used on sizes 1/2" thru 1". Over 1" will have a black and orange tracer in one strand. An excellent general purpose rope.

Part	Diameter	Circumference	Length	Tensile Strength (lbs.)	Working Load
33100	3/8"	1 1/8"	600'	2,700	9:01
33101	3/8"	1 1/8"	1,200'	2,700	9:01
33102	3/8"	1 1/8"	5,000'	2,700	9:01
33103	1/2"	1 1/2"	600'	4,200	9:01
33104	1/2"	1 1/2"	1,200'	4,200	9:01
33107	3/4"	2 1/4"	1,200'	8,500	7:01
33108	5/8"	2"	600'	6,500	8:01

B.

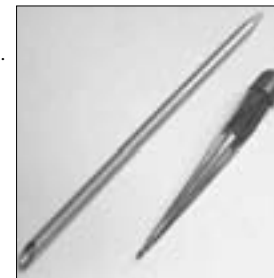


### Samson

#### C. Splicing Fids

A different size fid is required for each size of rope. Aluminum tubular. Part # is 901 +(rope size).

C.



**D. Pulling Rope (Stable Braid)** A double braid rope which provides a firm polyester rope that yields high strength, low stretch, and excellent wear. The Duron fiber technology which incorporates the Parallay plying, a braiding process which orients all the fibers parallel to the axis of the rope, is the reason that Stable Braid maximizes performance. Applications: Mooring Lines, Deep Water Mooring and Retrieval Lines, T&D Pulling Lines

#### Our most popular sizes:

Dia. Inch	Circumference Inch	Lbs. Per Foot	Average Strength (lbs.)	Min Strength (lbs.)
3/8"	1 1/8"	5	5,600	4,800
1/2"	1 1/2"	8.9	10,400	8,800
5/8"	2"	14.2	16,300	13,900
1 1/2"	4 1/2"	60.8	75,100	63,800

Please call for other sizes

### Wellington Pulling Rope

**E. Rhinex** 8 and 12 strand single braid construction stringing line. 100% high tenacity Polyester with cordage overlay finish. High strength/low stretch, easily spliced, coated colors for visual identification, and snag resistant.

Available size				Tensile	Tensile
Dia. Inch	Construction	Product	Weight lb/10	Min Strength (lb)	Std. (lbs)
3/8	8 strand	RO824	4.0	5,400	6,000
1/2	8 strand	RO832	7.1	9,000	10,000
5/8	12 strand	RO840	13.2	15,300	17,000

E.





## Rope

### Tenex

**A.** Twelve strand Samthane coated, high tenacity polyester rope offering high strength coupled with low stretch and outstanding abrasion resistance. Its abrasion resistance and firmness is due to special Samthane Type "S" coating which allows for easy splicing while enhancing wear life and snag resistance. Applications: T&D pulling lines, Slings, Fiber optic pulling line

#### Our most popular sizes:

Dia. Inch	Circumference Inch	Lbs. Per Foot	Average Strength (lbs.)	Min Strength (lbs.)
1/2"	1 1/2"	8.5	11,800	10,600
5/8"	2"	13.1	17,100	15,300
7/8"	2 3/4"	25.8	32,600	29,300
1"	3"	34.5	42,700	38,400

Please call for other sizes

### Yale Pulling Rope

#### B. Double Esterlon

A double braided rope constructed of Honeywell's unique type 1W81 high tenacity cordage finish polyester. It offers low stretch, high strength, and excellent wear life and dielectric strength. Identified by two adjacent green strands braided into the cover structure.

#### Our most popular sizes:

Dia. Inch	Ave Break Strength	Min Break Strength	Max Work Load
1/2"	10,500 lb	9,450 lb	2,625 lb
5/8"	16,800 lb	15,120 lb	4,200 lb
1"	44,000 lb	39,600 lb	11,000 lb

Please call for other sizes

#### C. Maxibraid Plus

A double braid rope constructed of an inner load bearing core of UHMPE fiber. The polyester outer sleeve protects the strength member from abrasion. The UHMPE fiber has the highest strength to weight ratio of any synthetic or natural fiber and has stretch characteristics similar to wire. The UHMPE core is coated with Maxijacket prior to being overbraided for added toughness. Identified by red and blue strands braided into the sleeve structure.

#### Our most Popular sizes:

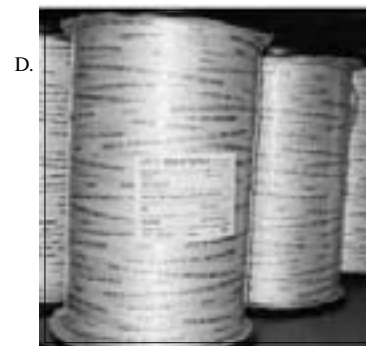
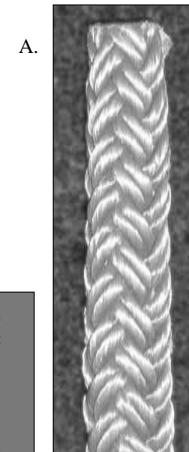
Dia. Inch	Ave Break Strength	Min Break Strength	Max Work Load
1/2"	20,000 lb	15,300 lb	3,400 lb
5/8"	23,000 lb	20,700 lb	4,600 lb
7/8"	50,000 lb	45,000 lb	10,000 lb
1"	60,000 lb	54,000 lb	12,000 lb

Please call for other sizes

### Neptco Pull Tape (Mule Tape)

#### D. Muletape

Recommended for outside plant fiber optic cable installation.  
Note: The duct fill ratio should be less than 50% by cross-sectional area. The area of the cable divided by the area of the innerduct should be less than or equal to .50 for ease of installation.



### We Can Make Winch lines the way you want!

Call or e-mail us with the following information.

- Type of Rope
- Diameter of Rope
- Finished Length
- Eye Each End YES NO
- Coating YES NO

Eastern/Central USA: (800) 666-6567  
Western USA: (800) 444-7064  
[www.wagnersmithequipment.com](http://www.wagnersmithequipment.com)



## Ladders

### Green Bull

#### A. Extension Series 6102

Fiberglass extension ladder, orange. D-rung type. Full-length interlocking rails, riveted rung plates, cast aluminum rung lock, and heavy cast aluminum shoe assembly. Type 1A 300 lb duty rating, outside width 17 3/4" at base and 16" at fly.

Model	Size (ft)	Rung Size (in)	Wt. (lb)
610216**	16	1 5/8	39
610220	20	1 5/8	47
610224	24	1 5/8	55
610228	28	1 5/8	63
610232	32	1 5/8	69
610236*	36	1 5/8	104
610240*	40	1 5/8	112

\*\* Rope & pulley not included

\*Base 18 7/8"

#### B. Extension Series 6062

Fiberglass extension ladder, yellow. Full-length interlocking rails, direct rung connection, heavy duty steel shoe assembly, and cast aluminum rung lock. Type 1A 300 lb duty rating. Outside width: base 17 3/4", fly 16".

Model	Size (ft)	Rung Size (in)	Wt. (lb)
606216**	16	1 5/8	37
606220	20	1 5/8	45
606224	24	1 5/8	52
606228	28	1 5/8	59
606232	32	1 5/8	70
606236*	36	1 5/8	79
606240*	40	1 5/8	86

\*\*Rope & pulley not included

\*250 lb duty rating

### Werner

#### C. Extension D6200-2

Fiberglass flat D-rung extension ladder, orange. Interlocking side rails, durable rail shield bracket and shoe with Shu-lok slip-resistant pad and spur plate.

Type 1A 300 lb duty rating.

Model	Size (ft)	Wt. (lb)
D6216-2**	16	37
D6220-2	20	45
D6224-2	24	52
D6228-2	28	60
D6232-2	32	72
D6236-2*	36	81
D6240-2*	40	89

\*\*Rope & pulley not included

\*Type 1 250 lb duty rating

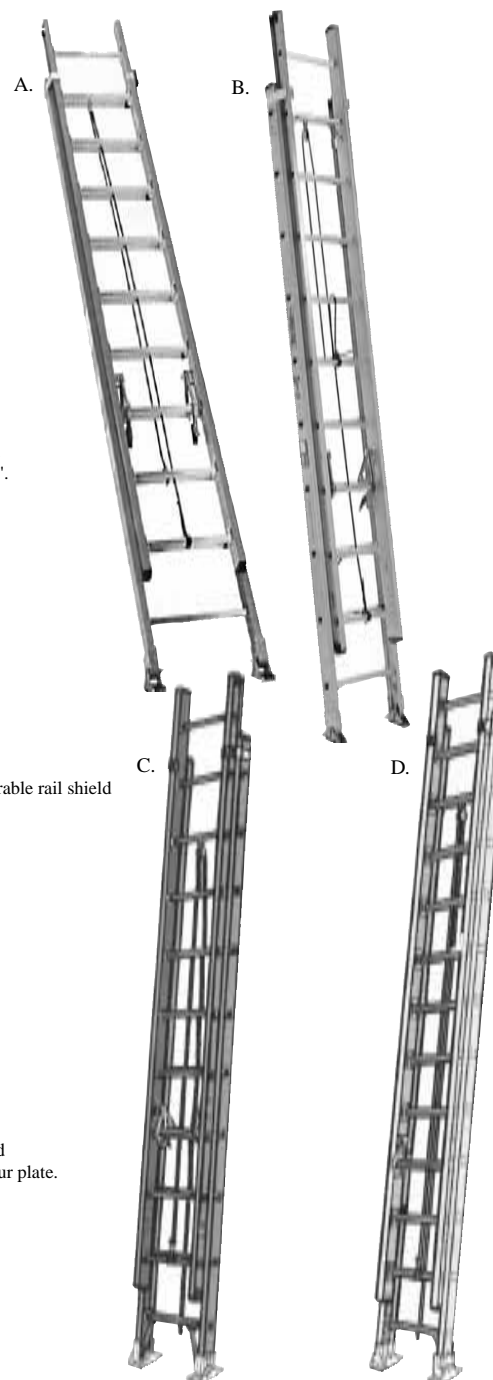
### Werner

#### D. Single Ladder 7100-1

Fiberglass round rung single ladder, yellow. Durable rail shield bracket and shoe bracket protects rail from damage, shoe with slip-resistant pad and spur plate.

Type 1A 300 lb duty rating.

Model	Size (ft)	Wt. (lb)
7108-1	8	20
7110-1	10	25
7112-1	12	28
7114-1	14	32
7116-1	16	38







## Ladders

### Werner

#### A. Manhole M7100-1

Fiberglass manhole ladder, yellow. Mar-resistant vinyl coated aluminum hoop end caps for removing ladder from manhole. 3" replaceable plastic sleeves to avoid manhole rim damage to rail. Slip-resistant round rungs, and combination rail shield and shoe protects bottom of rail from damage. Type 1A 300 lb duty rating.

Model	Size (ft)	Wt. (lb)
M7108-1	8	19
M7110-1	10	23
M7112-1	12	27
M7114-1	14	30
M7116-1	16	36

#### B. PK80-2

Automatic ladder levelers. Easily attaches to Werner fiberglass extension ladders to level ladder on uneven surfaces. Automatically adjusts up to 8 1/2". Easily levels and locks securely in place. The width of the ladder is increased by 3 3/4".

### Green Bull

#### C. Manhole Series 6032

Fiberglass manhole ladder. Structural PVC rail wear sleeves, 12" outside dimension, wide utility-style safety shoe, and riveted rung plates. Type 1A 300 lb duty rating.

Model	Size (ft)	Rung Size (in)	Bottom Width (in)	Wt. (lb)
603208	8	1 1/4	12	16
603210	10	1 1/4	12	20
603212	12	1 1/4	12	23
603214	14	1 1/4	12	26
603216	16	1 1/4	12	31
603218	18	1 1/4	12	35
603220	20	1 1/4	12	39

#### D. Step Ladder Series 2032

Fiberglass step ladder with molded top w/recessed tool tray, steel-reinforced inside spreader braces, and steel gussets on all steps and back braces. Type 1AA 375 lb duty rating.

Model	Size (ft)	Wt. (lb)
203203	3	15
2203205	5	22
203206	6	25
203207	7	31
203208	8	35
203210	10	44
203212	12	54

#### ACE 105

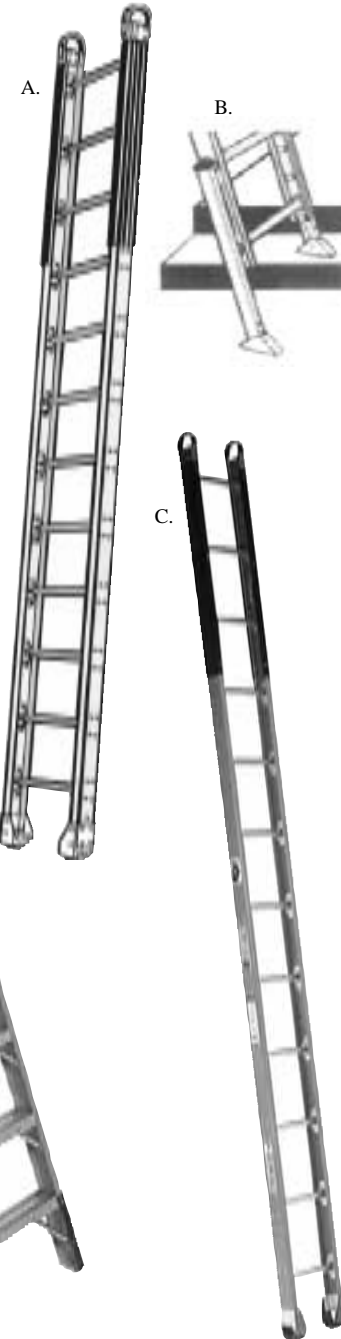
Cablehook / pole grip assembly / pair

#### ACE 120

Pole lash / each

#### ACE 150

Manual adjusting leg leveler / pair





## Telecommunications

### Condux Lasher

**A. 08721000** The Condux cable lasher has the capacity to meet large diameter lashing requirements, the durability to lash in almost any condition and the reliability to minimize downtime. Large lashing capacity, up to 4" diameter bundle. Bare strand and overlashing capabilities.

**08721460** Lashing wire, #302 stainless steel .038", 1600ft coil

### GMP Lasher

**B. J2** The J2 cable lasher is used to lash an aerial cable or numerous cables to a supporting strand or to an existing lashed cable with stainless steel lashing wire. Will lash any single or multiple aerial cables up to 3" diameter across any suspension strand from 1/4" to 7/16". A factory modification will allow the lasher to accommodate 1/2" strand if necessary. Will hold two 1200ft coils of .045 lashing wire, or two 450ft coils of .065 lashing wire. The J2 makes overlashing easy.

**C. C Lasher** The C cable lasher is used to lash small diameter aerial cables to supporting strand with stainless steel lashing wire. It is used primarily for new installations. Will lash any single or multiple cables up to 1 5/8" diameter onto bare 1/4" to 3/8" strand. Will hold two 1200ft coils of .045 lashing wire.

**D. G Lasher** The G cable lasher is designed to lash large single or combination of aerial cable up to 5" diameter to a supporting strand. Can be used for new installs or with existing cables in place. Lashes any cable from about 2 1/2" to 5" diameter, on strand from 11/32" to 3/4" diameters with one or two left lay spiral wrappings of .065 diameter lashing wire.

**03165** Bridle rope assembly

**70190** Towing lanyard, 35ft

**70012** Lasher guard "Halo"

**71530** Lashing wire, #430 alloy stainless steel .045", 1200ft coil

**71532** Lashing wire, #430 alloy stainless steel .065", 450ft coil

**E. 70055** Single-lashing aerial cable guide. An economical but durable guide for new plant construction only.

**F. 08007** Dual-lashing aerial cable guide. Offers versatility of working for new installations or for overlashing cable to existing plant.

**G. 70018** Universal heavy-duty cable block pusher. Makes the lashing process smoother by maintaining the proper cable lead between the lasher and the cable block. Standard length, 24".

**H. 70431** Standard cable block pusher, 24".

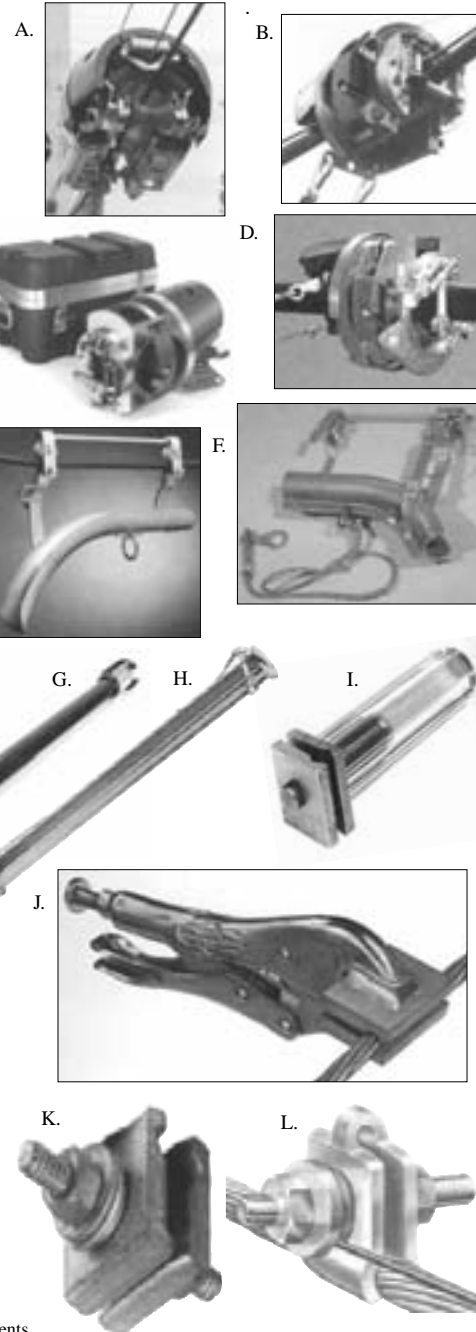
**70432** Standard cable block pusher, 36".

**I. 08605** Lashing wire grip used to temporarily fasten lashing wire under tension before placing a permanent clamp.

**J. 01384** Speedgrip lashing wire grip. An easier way to temporarily secure lashing wire with this vise style grip.

**K. 07886** D lashing wire clamp. Perfect for temporary and permanent terminations or grounds, this all steel clamp lets you securely attach two lashing wires or #6 ground wire on any size strand from 1/4" to 7/16" diameter.

**L. 81460** E lashing wire clamp. Similar to the D lashing wire clamp except this one is a one-piece clamp to let both sides grip the messenger in perfect alignment. Cable Spacers D cabler spacers help maintain proper separation between the cable and strand on either side of the pole. Made of weatherproof Alathon. Available sizes: 1/4" through 2" in 1/4" increments.





## Telecommunications

### Condux Benders

#### UltraBend

The finest mechanical cable bender from Condux forms expansion loops with a life exceeding 50 years. Available in steel frame and lightweight aluminum frame construction.

Model	Max # of Cables	Max Cable Dia.	Loop Material	Loop Depth	Loop Length	Flat Radius	Bottom
A. 018107520	2	.75"	Steel	6"	39"	11"	12"
018107525	2	.75"	Aluminum	6"	39"	11"	12"
018110020	2	1"	Steel	6"	51"	11"	15"
018110025	2	1"	Aluminum	6"	51"	11"	15"

#### Standard Bender

Provides mechanical wrenching action to form expansion loops with a life of over 25 years. Steel frame.

Model	Max # of Cables	Max Cable Dia.	Loop Depth	Loop Length	Flat Radius	Bottom
B. 018108405	2	.75"	6"	36"	11"	12"
018108440	4	.75"	6"	36"	11"	12"
018108410	1	1"	6"	51"	11"	15"
018208400	2	1"	6"	51"	11"	15"
018208415	2	1.25"	6"	51"	11"	15"

#### Mullen Hand Bender

Hand-form expansion loops using the economical Mullen cable bender. Steel frame.

Model	Max # of Cables	Max Cable Dia.	Loop Depth	Loop Length	Flat Radius	Bottom
C. 018010000	1	.63"	6"	36"	11"	12"
018020000	2	.63"	6"	36"	11"	12"

A.



B.



C.



### Condux Blocks

**D. Economy Overlash Cable Block** This alternative cable block may be placed over existing cable bundles up to 1.5" in diameter. Single rollers are available in plastic or steel and can accommodate cable or innerduct up to 1" diameter.

#### Jameson

**E. Easy Rider** This overlash block is economical as well as high strength and lightweight. It can be snapped over a strand and cable package up to 2 1/4" diameter. 1 1/2" width provides easy stacking when pushed by a lasher. Available with nylon or aluminum rollers.

**Versa Block** Offers the versatility of stringing cable at midspan on both new and existing/overlash construction. Ideally suited for easy cable placement from aerial lift buckets, as well as from ground positions, using layup sticks. Accommodates up to 3" cable bundles. Available with rubber or aluminum rollers.

#### GMP

**F. 72680 D** cable block used for supporting a single cable up to 2 3/4" diameter on bare strand 1/4" to 3/8" prior to lashing. 300lb load capacity rating.

### Condux

**G. 90 Degree Corner Blocks** Offers a bending radius of about 23". 1, 2, and 4 roller assemblies available with plastic and aluminum rollers.

**H. 45 Degree Corner Blocks** Used to guide cable on inside or outside corners and are used as a cable chute in reel-to-strand spans, or mid-spans. Bend radius of about 23", and with plastic or aluminum rollers. 1, 2, and 4 roller assemblies available.

**I. Pole Bracket Mount Adapter** Installs on the pole bracket to provide a horizontal axis to mount 45 degree corner blocks for a reel-to-strand chute.

**J. Pole Bracket** Used for 90 degree and 45 degree corner blocks.

D.



E.



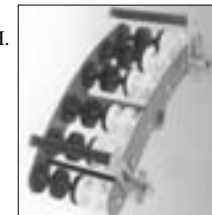
G.



F.



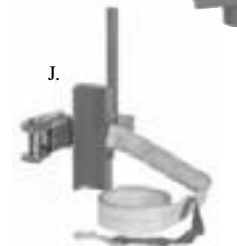
H.



I.



J.





## Telecommunications

### Jameson

#### A. Corner Blocks

Available in 60 and 90 degree styles. 1, 2, and 4 roller assemblies available.

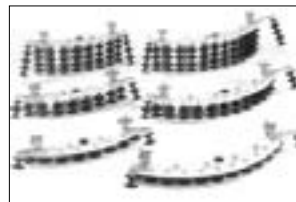
##### 60 Degrees

80-161 Single Nylon Roller  
80-162 Dual Nylon Roller  
80-164 Quad Nylon Roller

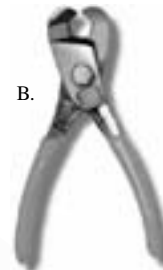
##### 90 Degrees

80-591 Single Nylon Roller  
80-592 Dual Nylon Roller  
80-594 Quad Nylon Roller

A.



B.



### Benner-Nawman

#### Coaxial Cutters

**B. UPB76** The UP-B76, also known in the cabling business as The Banana Cutter because of the distinctive yellow handles, is used by CATV installers on coaxial cable all over the world. This clean cutting, one-handed instrument is both lightweight and compact to fit into a tool pouch. It is designed to function just like a tube cutter to eliminate cable distortion during cable preparation. This tool was designed to cut up to cable. The UP-B76 is the ideal tool for telecommunication, computer and CATV industry applications.

**C. UPB95** Like the famous Banana Cutter, the UP-B95 is designed specifically to cut coaxial cable. The difference is that we engineered a special cutting blade surface that can cut a cable up to and including 1" in diameter. It is designed to function just like a tube cutter to eliminate cable distortion during cable preparation. Like all of our cutting tools, the UP-B95 is dropped forged tool steel and hand-finished by our skilled craftsmen here in the USA.

C.



D.



### Ripley

**CXC** Cable Cutters for up to .75 inch cable. CXC (yellow handle) effective for cutting up to .75 inch (19mm) trunk and distribution coaxial cable and copper cable. Cuts with no cable distortion. Lightweight, easy to use, compact.

**D. CXC-1** Cable Cutters for up to 1.00 inch cable. CXC-1 (blue handle) cuts up to 1.00 inch (25.4mm) trunk and distribution coaxial cable and copper cable. Cuts with no cable distortion.

E.



F.



G.



### Klein

**J63050** Klein Journeyman 9-3/8" Cable Cutter – High Leverage.

Soft handle material on outer surface for comfort and a firm grip. Hard black material on inner surface and handle ends for toughness and durability. High-leverage, cable gripping, shear-type jaws.

**63055** "Klein 8" Cable Cutter - Compact. Cuts copper and aluminum multi-stranded cable and wire, shear-type cutting blades, one-hand shearing action, drop-forged body with 3/8" case-hardened rivet, not designed for cutting steel or ACSR.

### Greenlee

**E. 727** Cuts copper and aluminum up to 2/0.

H.



### HK Porter

**F. 0690CSJ** Compact, cable cutter cuts up to 1/0 copper, and 3/0 aluminum.

**G. 0890CSJ** Compact, cable cutter cuts up to 2/0 copper, and 4/0 aluminum.

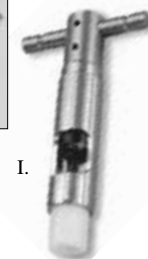
### Ripley (Coring & Strip)

**H. CST** Combination tool cores and strips in one fast and precise operation.

Manual or drill operation; CST tools have a standard "T" handle with a built-in 3/8 inch (9.5mm) drill adapter; CST-R tools have a ratchet "T" handle and a separate 3/8 inch (9.5mm) drill adapter. Strip stops available for exact stripping lengths of 0.50 to 2.00 inch (12.7 to 50.8mm).

**I. CST-MC** Specifically designed for Trilogy MC2 cables. Double helix coring bit designed for fast and precise coring and stripping of polyethylene disc/air dielectric cable.

I.





## Telecommunications

### Lemco

#### A. XP-Series Corstrip Kits

The fastest and most precise Corstrip tools in the industry. Lemco now offers a tool that strips the polyethylene jacket, cores the dielectric and strips the aluminum outer conductor on a taper while controlling the length of the center conductor. Attachable PJ-Series Jacket Stripping Tools simply attach to the bushing for one-shot preparation of non-flooded, jacketed cables. For flooded cables ... attach the PJ Jacket Stripping tool to our regulating handle and strip the jacket from flooded cables prior to the Corstrip operation. The built in stop allows the jacket to be removed 2 1/2". After the Corstrip operation sufficient space remains for application of 2 and 3 piece connectors from Amphenol, Cablecon, Gilbert, LRC, and PPC.

##### XP models:

XP-412 XP-840

XP-500 XP-875

XP-625 XP-500MC2

XP-700 XP-650MC2

XP-750 XP-750MC2

For TFC extra thick jacket products order as XP-xxxJBX. XLP models available as well.

#### B. X-Series Corstrip Tools

The high quality steel used in the coring bit offers more cuts per dollar. Lemco Corstrips feature an adjustable center conductor stop for accurate center conductor lengths, eliminating guesswork and measuring. An inspection window visually confirms progress and completion.

P3/T10	P3/TX10	Trilogy	Specialty Cable
X-412	X-565	X-440MC2	X-625PF (for CommScope's Power Feeder)
X-500	X-700	X-500MC2	X-625-50 (for CS and TFC 50 ohm cable)
X-625	X-840	X-650MC2	
X-750		X-750MC2	
X-875		X-1000MC2	
X-1000			

#### C. XL-Series Corstrip Tools

XL-Series tools are shipped without a handle for use with a drill or the addition of our optional XB-94 Speed Handle.

P3/T10	P3/TX10	Trilogy	Specialty Cable
XL-412	XL-565	XL-440MC2	XL-625PF (for CommScope's Power Feeder)
XL-500	XL-700	XL-500MC2	XL-625-50 (for CS and TFC 50 ohm cable)
XL-625	XL-840	XL-650MC2	
XL-750		XL-750MC2	
XL-875		XL-1000MC2	
XL-1000			

**D. CS-596711 Cable drop stripper.** One tool body for all drop cable sizes. Loaded with one 596 and one 711 cartridge. These cartridges feature a cable stop for precise preps every time. Cartridges snap in from either side of tool for right and left hand use.

A.



B.



C.



D.





## Telecommunications

### Lemco (CablePrep)

**A. CPT Series** Offers the versatility to be used on small-to-large sized cables. Cartridges for a wide range of 50 and 75 ohm cables, all of which fit the same tool.

Cable Type	Braid Exposure	Center Conductor	Cable Prep Order Number	Tool Color	Cartridge Color	Weight (Pounds)	Weight (Kilograms)
6 & 59	0.25	0.25 minimum	CPT-6590*	Yellow	Black	0.18	0.08
6 & 59	0.25	0.25 with stop	CPT-6590S*	Yellow	Black	0.18	0.08
6 & 59 Mini Coax	0.25	0.25 minimum	CPT-MINI	Green	Black	0.18	0.08
6 & 59	0.125	0.25 with stop	CPT-1250	Red	Blue	0.18	0.08
7 & 11	0.25	0.25 minimum	CPT-1100	Blue	Grey	0.18	0.08
7 & 11	0.125	0.25 minimum	CPT-1100-125	Blue	Orange	0.18	0.08
CommScope 59 Quad Series Head End	0.25 (Cuts off first layer of braid)	0.25 minimum	CPT-59HEC2	Yellow	White	0.14	0.07
CommScope 7538	0.25	0.25 minimum	CPT-7538	Green	Black	0.14	0.07
Times Fiber Flexible Feeder	0.25	0.25 minimum	CPT-TXFF-250	Green	Yellow	0.14	0.07
Corning Cable Systems Braidless 6	0.25 (Sheath Exposure)	0.25 minimum	CPT-P06	Red	White	0.18	0.08
Corning Cable Systems Braidless 11	0.25 (Sheath Exposure)	0.25 minimum	CPT-P11	Blue	Red	0.18	0.08

\*CPT Series tools CPT-6590 and CPT-6590S work with all these cables.

**B. TerminX Series** The TerminX series extends the functionality of highly innovative cable termination tools for use with compression-type connectors. Reliability, durability, and versatility distinguish every tool in the TerminX series. Each tool is ergonomically designed and features a spring-loaded connector support that guarantees proper positioning and provides a consistent termination time after time. The Pocket TerminX features a compact and lightweight body. Two sizes accommodate 6- and 59-series and 7- and 11-series compression connectors.

Connector Type	Cable Prep Order Number	Gauge Color code/ Dimension	Weight (Pounds)	Weight (Kilograms)
*Corning Gilbert Ultra Seal® 6 & 59	PT-5000UNV-659	Green 0.830	0.66	0.3
*Digicon® S 6 & 59	PT-5000UNV-659	Green 0.830	0.66	0.3
*Phoenix (PCT) DRS 6 & 59	PT-5000UNV-659	Green 0.830	0.66	0.3
*PPC EXXL 6 & 59	PT-5000UNV-659	Green 0.830	0.66	0.3
*Thomas & Betts Snap-N-Seal® (SNS) 6 & 59	PT-5000UNV-659	Green 0.830	0.66	0.3
*Corning Gilbert Ultra Seal® 7 & 11	PT-5000UNV-711	Green 1.425	0.7	0.32
*Phoenix (PCT) DRS 7 & 11	PT-5000UNV-711	Green 1.425	0.7	0.32
*PPC EXXL 7 & 11	PT-5000UNV-711	Green 1.425	0.7	0.32
*Thomas & Betts Snap-N-Seal® (SNS) 7 & 11	PT-5000UNV-711	Green 1.425	0.7	0.32
*Thomas & Betts SNS320QR	PT-5000UNV-711	Green 1.425	0.7	0.32
Corning Gilbert TAC 6 & 59	PT-5000TAC-659	Yellow 0.747	0.66	0.3
PPC EX 6 & 59	PT-5000EX-659	White 0.710	0.66	0.3
Phoenix (PCT) DRS 6S & 59S	PT-5000DRS-659S	Blue 0.500	0.66	0.3
Stirling SPL 6 & 59	PT-5000SPL-659	Yellow 0.785	0.66	0.3
Corning Gilbert TAC 7 & 11	PT-5000TAC-711	Yellow 1.645	0.7	0.3
Digicon® S 7 & 11	PT-5000DS-711	Yellow 1.320	0.7	0.32
PPC EX 7 & 11	PT-5000EX-711	White 1.392	0.7	0.32
Raychem EZF® 7	PT-5000EZF-7	Red 0.515	0.7	0.32
Stirling SPL 7 & 11	PT-5000SPL-711	Yellow 1.525	0.7	0.32

\*For Raychem EZF applications, call for availability.

A.



B.





## Telecommunications

### Lemco (CablePrep)

#### A. Cable Gator

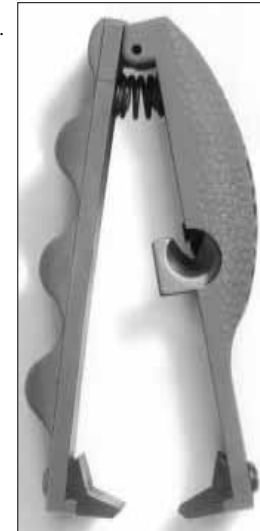
The Gator center conductor cleaner is unlike any other in that it is equipped with a beveller that eliminates the need for the cable technician to perform a pyramid cut. Burrs that are not removed from the center conductor can damage the seizing mechanism of the connector and result in signal loss and downtime. The Gator beveller removes all burrs with ease. In two easy steps, the Gator tool bevels the center conductor and removes the bonded dielectric. The ergonomic body design makes the tool easy to grip and easy to use.

#### Description

Center Conductor  
Beveller and  
Cleaner Tool Gator Replacement  
Blade Kit (includes replacement  
teeth and screws)

Cable Prep Order Number	Weight (Pounds)	Weight (Kilograms)
GATOR	0.16	0.08
TEETH	0.02	0.01

A.



### Ripley

#### B. UDT Universal drop trimmer.

Prepares ALL 59, 6, 7, 11 drop  
cable constructions as per SCTE  
and Bellcore specifications.  
ONE STEP cable preparation  
exposes the center conductor and  
removes the jacket. ONE TOOL,  
with inter-changeable blade cassettes,  
will perform all the following  
cable industry standard preparations:

- 1/4 inch (6.35mm) Braid preparation for Series 59, 6, 7, 11 cable.
- 1/8 inch (3.18mm) Braid preparation for Series 59, 6, 7, 11 cable. (NOTE: Tool is not intended for Plenum Series Cable Construction)
- Cassettes available for 1/4 inch (6.35mm) or 1/8 inch (3.18mm) cable preparation:
- Series 59/6 Standard, Tri and Quad Shield cables.
- Series 7 Standard, Tri and Quad Shield cables.
- Series 11 Standard, Tri and Trilogy Quad Shield cables.
- Series 11Q Belden, CommScope® and Times Fiber Quad Shield cables.
- Blade cassettes color-coded and marked with cable series type and braid preparation dimensions for easy identification.
- Unique cassette storage compartment holds two extra cassettes.
- High impact, "Hi-Visibility Red", polymer construction.
- Compact size fits in one hand.
- Series 59, 6 and 7 cassettes are to be used in tool cavity Side (A) only, Series 11 and 11Q in the opposite cavity only.
- No adjustments or extra tools required (Made in the U.S.A.).

B.



For 250 (1/4") (6.35mm) Cable Preparation (1/8" braid exposure, 3/16" center conductor exposure)

MODEL	DROP CABLE SERIES	BLADE CASSETTES (ASSEMBLED IN TOOL)	TWO EXTRA BLADE CASSETTES IN STORAGE COMPARTMENT
UDT250-096	59 6 7 11 11Q	RC19-096 RC19-096	RC19-096 RC19-096
UDT250-114-250	59 6 7 11 11Q	RC096-250 RC19-250	RC096-250 RC19-250
UDT250-11-096	59 6 7 11 11Q	RC096-096 RC19-096	RC19-096 RC19-096

11Q Blade cassette is specifically for Corrad Belden, CommScope® and Times Fiber Construction 11Q Quad Shield cable construction.

For 125 (1/8") (3.18mm) Cable Preparation (1/8" braid exposure, 3/16" center conductor exposure)

MODEL	DROP CABLE SERIES	BLADE CASSETTES (ASSEMBLED IN TOOL)	TWO EXTRA BLADE CASSETTES IN STORAGE COMPARTMENT
UDT125-125	59 6 7 11 11Q	RC19-125 RC19-125	RC19-125 RC19-125
UDT096-11-125	59 6 7 11 11Q	RC096-125 RC19-125	RC096-125 RC19-125
UDT096-11-096	59 6 7 11 11Q	RC096-096 RC19-096	RC19-096 RC19-096

11Q Blade cassette is specifically for Corrad Belden, CommScope® and Times Fiber Construction 11Q Quad Shield cable construction.

REPLACEMENT BLADE CASSETTES (2 CASSETTES PER PACKAGE)

250 (1/4") (6.35mm) CABLE PREPARATION			125 (1/8") (3.18mm) CABLE PREPARATION		
REPLACEMENT CABLE SERIES	CABLE	CABLE	REPLACEMENT CABLE SERIES	CABLE	CABLE
RC19-096	BLACK	11	RC19-125	YELLOW	11
RC19-250	GRAY	11Q	RC19-125	ORANGE	11Q
RC19-096	GREEN	7	RC19-096	BLUE	7
RC096-250	RED	59, 6	RC096-125	PURPLE	59, 6

11Q Blade cassette is specifically for Corrad Belden, CommScope® and Times Fiber Construction 11Q Quad Shield cable construction.



## Telecommunications

### Ripley

#### A. SDT Single Drop Trimmer.

- ONE STEP cable preparation precisely exposes the center conductor and removes the proper length of jacket to SCTE and Bellcore specifications.
- SMALL ERGONOMIC BODY DESIGN fits into your hand for ease of use and comfort, as well as your tool pouch
- Tool body constructed of LIGHTWEIGHT, impact resistant "Hi-Visibility Red" polymer.
- No adjustments or extra tools required.
- Select models for either .250 (1/4) braid preparation or .125 (1/8) (Raychem EZF®) braid preparation (Note: Tool is not intended for Plenum Series Cable Construction)
- Superior quality tool steel blade cassettes will perform 1500+ preparations under normal use.
- Tool supplied with model specified cassette assembled in tool and one spare cassette.
- Unique 'Cassette Ejector' provides quick blade cassette removal.
- Replaceable blade cassettes are color coded and marked with cable series type and braid preparation dimensions for easy identification.
- The various SDT models are cable specific...model SDT596-250 is for 59 and 6 series cable only and SDT11-250 is for 11 series cable only (NOTE: Cassettes are not interchangeable between models). (Made in the U.S.A.)

#### CC-100 Center Conductor Cleaner with Multiple V-shaped Cleaning Notches

For removing residual dielectric from the conductor of all sizes of trunk and distribution cables (without scratching or nicking)

- Clear Plexiglas® multiple V-shaped cleaning notches.
- Finger grippers permit application of maximum force.
- Replacement cleaning blades fit both CC100 & CC200 tools:
- Part Number 16722, multiple "V" notched blade kit.
- Part Number 16725, clear Plexiglas® scraping blade kit.

#### B. CC-200 Center Conductor Scraper with Flat Blades.

For removing residual dielectric from the conductor of all sizes of trunk and distribution cables (without scratching or nicking)

- Clear Plexiglas® flat scraping blade kit
- Finger grippers permit application of maximum force.
- Replacement cleaning blades fit both CC100 & CC200 tools:
- Part Number 16725, clear Plexiglas® scraping blade kit.
- Part Number 16722, multiple "V" notched blade kit.

### Lemco

**C. Y-190 Center Conductor Cleaner** The fastest and safest way to remove dielectric and adhesive from all coaxial cables from .412 through super trunk. The scrapers are reversible and can be sharpened with a fine file. The handle is made of plated spring steel and has a comfortable plastic coating.

A.



FOR .250 (1/4) 5.0MM CABLE PREPARATION (0.25" braid exposure, 5/16" center conductor exposure)			
MODEL	DROP CABLE SERIES	REPLACEMENT CASSETTES	COLOR
SDT596-250	59 & 6 STD. TRI & QUAD	RC596-250	RED
SDT7-250	7 STD. TRI & QUAD	RC7-250	GREEN
SDT11-250*	11 STD. TRI & QUAD	RC11-250	BLACK
		RC11-250*	GRAY

\*SDT MODEL SUPPLIED WITH 11 (BLACK) CASSETTE FOR USE ON 11 STANDARD AND TRI SHIELD CABLE AND 11 (GRAY) CASSETTE FOR USE ON 11 QUAD SHIELD CABLE

FOR .125 (1/8) 3.2MM CABLE PREPARATION (RAYCHEM EZF®) (0.125" braid exposure, 5/16" center conductor exposure)			
MODEL	DROP CABLE SERIES	REPLACEMENT CASSETTES	COLOR
SDT596-125	59 & 6 STD. TRI & QUAD	RC596-125	BLUE
SDT7-125	7 STD. TRI & QUAD	RC7-125	TAN
SDT11-125*	11 STD. TRI & QUAD	RC11-125	YELLOW
		RC11Q-125	ORANGE

\*SDT MODEL SUPPLIED WITH 11 (YELLOW) CASSETTE FOR USE ON 11 STANDARD AND TRI SHIELD CABLE AND 11 (ORANGE) FOR USE ON 11 QUAD SHIELD CABLE

NOTE: REPLACEMENT BLADE CASSETTES (2) CASSETTES PER PACKAGE

B.



C.





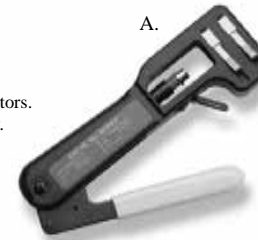


## Telecommunications

### Ripley

#### A. CAT-AS

- “All Series” Compression Assembly Tool.
- Unique new CAT allows assembly of series 59, 6, 7, and 11 drop connectors in one versatile tool.
- Two sets of jaws, precision designed – one set for 59 & 6 connectors, and another set for 7 & 11 connectors.
- Field proven design based on original Cablematic® CAT design with high strength cast aluminum body.
- Spring loaded, split jaws position the cable and connector for easy insertion and removal.
- Available in a “fixed” model (CAT-AS-FX) with a fixed, factory set plunger tip that is non-adjustable.
- Also available, 59/6-Gilbert/Ultraseal, PPC/EX XL, PCT/DRS, Telewire/Digicon-S, Thomas & Betts/SNAP-N-SEAL and 7/11-Gilbert/Ultraseal, PPC/EX XL, PCT/DRS.



### Condux (Strand Brake)

**B. 018107900** Strand brake. Minimize strand sagging during installation with the Strand Brake. Designed to allow strand to move in only one direction—the direction of the pull. Convenient mounting bracket is secured in a standard 3-bolt strand clamp on a pole. Bracket swivels to allow slight offsets in pole alignment. A Strand Brake is a simple piece of safety equipment that can help avoid major problems associated with strand sagging. Available with ground wire clip that attaches to the ground wire of the first pole in series. Zinc-plated steel construction. Recommended use: Every 4 to 6 poles and at every traffic crossing.

**18107910** Strand brake with ground.

B.

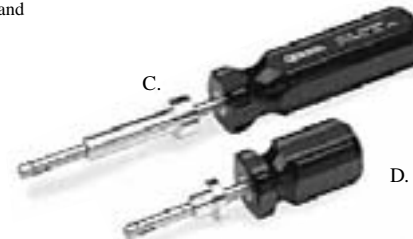


### Ripley

**C. Locking Terminator Tool.** Used on Gilbert engineering GTP and Production Products Company PPC LFT locking terminators.

Model	Length (in)	Weight (oz)
LTT-4	4.5	1.9
LTT-7	8	4.2

C.



### Lemco

**TTV-3** Tool for Viewsonics locking terminators. Works with both 2 and 3 slot terminators. 7 1/4 inches.

#### D. S-200 Security Shield Tool.

- For use with 7/16 inch hex shielded ‘F’ connectors.
- New design with extended 7/16 inch shank allows the tools to be used with the TW Torque Wrenches in security shield applications.
- Machined and heat treated steel for maximum durability.
- Knurled handle allows for easy and secure gripping.
- Steel loop permits additional tool turning leverage and serves as a convenient carrying loop for attachment to belt or pouch.

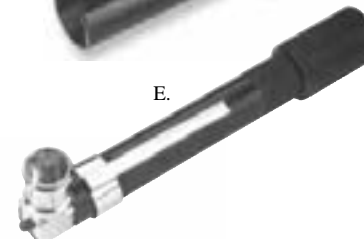
D.



#### E. A303 Pen-Toner Continuity Tester.

A pocket-size continuity tester for identifying and troubleshooting drop cable lines. The LED unit, used alone, reads shorts and splitters. The unit can be used to check the integrity of new reels of cable before leaving the warehouse.

E.



### Ripley

#### F. RPT Pocket Toner Drop Cable Continuity Tester

- LED indicates DC shorts, splitters, and other self-grounding devices in cable.
- Loud audio tone identifies line carrying signal.
- Checks circuit integrity in new and/or installed cable.
- Right angle male push-on connector lets you work in tight areas.
- Female push-on connector for speed toning.
- Tests up to 5,000 ft (1500m) of cable.
- Clips to shirt pocket for easy accessibility.
- Battery included (12 volt).

F.





## Telecommunications

### Condux

#### A. Torque Wrench

Specially designed Torque Wrenches provide precise "F" connector seating. Available in 20, 30 and 40 in•lbs (2.26, 3.39, 4.52 N•m) settings and also with an integral port cleaner-threader. Grips are non-conductive, cushioned and color-coded for identification. Head is heat treated and zinc plated cast metal alloy.

Part	Description	Handle Color
018151420	20 in•lbs (2.26 N•m) torque wrench	White
018151421	20 in•lbs (2.26 N•m) torque wrench with cleaner	White
018151430	30 in•lbs (3.39 N•m) torque wrench	Blue
018151431	30 in•lbs (3.39 N•m) torque wrench with cleaner	Blue
018151440	40 in•lbs (4.52 N•m) torque wrench	Red
018151441	40 in•lbs (4.52 N•m) torque wrench with cleaner	Red

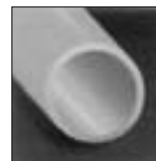
A.



B.



C.



### Jameson Lay-Up Sticks

**B. JE Series** At 1-1/4" diameter, our original JE Series foam core fiberglass pole is still Jameson's highest quality pole. Its strength to weight ratio is unmatched by any pole on the market. In addition, it has increased flexural strength and a moisture barrier for high dielectric protection (the ultimate in safety), making it the right choice for line clearance. Jameson uses aircraft grade aluminum ferrules with an exterior leaf spring locking button, giving a secure and positive connection when attaching pole extensions and accessories.

Extension Pole: Female Ferrule on Top, Male Ferrule on Bottom.

Base Pole: Female Ferrule on Top, Rubber End Cap on Bottom.

Head Pole: Round Adapter/Eyebolt on Top, Male Ferrule on Bottom.

Top Pole: Blank on Top, Male Ferrule on Bottom.

<b>JE-3</b> 3' Foam core extension pole	<b>JE-10</b> 10' Foam core extension pole
<b>JE-6</b> 6' Foam core extension pole	<b>JE-12</b> 12' Foam core extension pole
<b>JE-8</b> 8' Foam core extension pole	<b>JE-6/3</b> Set of 4 foam core poles (21' Total Length)

**C. FG Series** Jameson's most popular pole costs less without sacrificing quality. With the same aircraft grade aluminum ferrules and exterior leaf spring as the JE Series, the .125" wall thickness increases flexural strength. The perfect complement for tree trimming and line clearance.

Extension Pole: Female Ferrule on Top, Male Ferrule on Bottom.

Base Pole: Female Ferrule on Top, Rubber End Cap on Bottom.

Head Pole: Round Adapter/Eyebolt on Top, Male Ferrule on Bottom.

Top Pole: Blank on Top, Male Ferrule on Bottom.

<b>FG-3</b> 3' Hollow core extension pole	<b>FG-10</b> 10' Hollow core extension pole
<b>FG-6</b> 6' Hollow core extension pole	<b>FG-12</b> 12' Hollow core extension pole
<b>FG-8</b> 8' Hollow core extension pole	<b>FG-6/3</b> Set of 4 hollow core poles (21' Total Length)

**D. CL-1** Cable and Limb Lifter safely lift copper, fiber optic, coaxial cable and limbs.

Ideal for placing cable on rollers, construction blocks and hardware.

Special high strength aluminum alloy. No adapter needed.

**E. WR-1/WR-2 Wire and Limb Raiser.** Designed to lift or pull cable or limbs out of the way.

Ideal for placing cable on rollers, construction blocks and hardware or placing blocks on cable in right-of-ways. When tree branches get in the way of cable placement, the wire raiser pulls branches away from lines. No adapter needed.

#### PPA-1 Pike Pole Spear Adapter

Allows you to convert the FG or JE series pole into a tool for plumbing up and testing utility poles.

#### UA-1 Universal Tool Adapter

Adapts any manufacturer's universal head tools to Jameson's FG, JE or LS series poles.

### HighLine Swivels

**F. HL5/8** 600 lb breakaway swivel. .625" diameter.

### Condux

#### G. Breakaway Swivels

Load range from 150lb to 1800lb. Call for sizing.

D.



E.



F.



G.





## Traffic Safety Listing

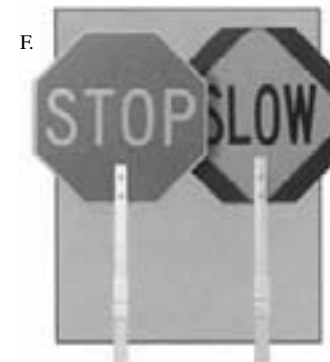
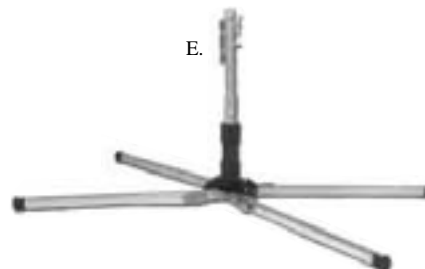
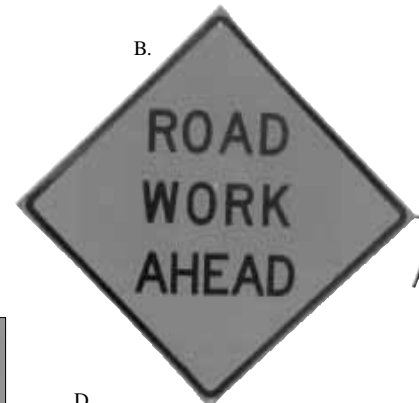
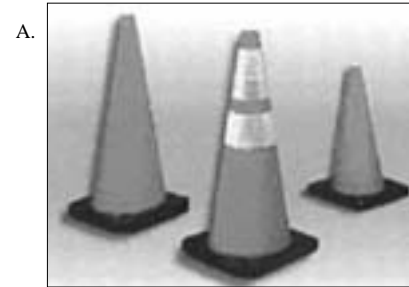
### Signs and Cones

#### A. Cones

- 4318-R 18" safety cone reflective
- 4328 28" safety cone
- 4328-R 28" safety cone reflective

#### Signs

- B-48 Roll-up sign storage bag
- B.** M48B13F2/RWA "Road Work Ahead" sign 48"
- C.** M48B13F2/UWA "Utility Work Ahead" sign 48"
- M48B13F2/WA "Workers Ahead" sign 48" with mini stand
- MOL48 Mesh overlay for 48" sign
- PS3000 Kickstand
- D.** PS3000S Mini stand
- R48B13F2/BPTS "Be Prepared To Stop" sign 48" reflective
- R48B13F2/FA "Flagger Ahead" sign 48" reflective
- R48B13F2/RLCA "Right Lane Closed" sign 48" reflective
- R48B13F2/SWA "Shoulder Work Ahead" sign 48" reflective
- R48B13F2/UWA "Utility Work Ahead" sign 48" reflective
- RF48B13F2/LLMTL "Left Lane Must Turn Left" sign 48" reflective
- RFOL48/L Overlay reflective, left
- RFOL48/R Overlay reflective, right
- E.** UF2000P Kickstand with vertical spring post
- X48B13F2 Cross brace with flag & stand adapter
- F.** ZCHP1818R "Stop/Slow" reflective paddle





## Personal Protection

### Crews Inc.

**A. CK100** Clear uncoated lens safety glasses.

**B. CK112** Grey coated lens safety glasses.

**C. CK117** Silver mirror coated lens safety glasses.

**D. M0114** Camouflaged frame amber lens safety glasses.

Filters out blue light to reduce haze and glare while enhancing vision, ideal for low-light applications.

**ST117** Black frame, silver mirror coated lens safety glasses.

**E. TM112** Tremor onyx frame, grey lens safety glasses.

**F. TM122** Tremor indigo blue frame, grey lens safety glasses.

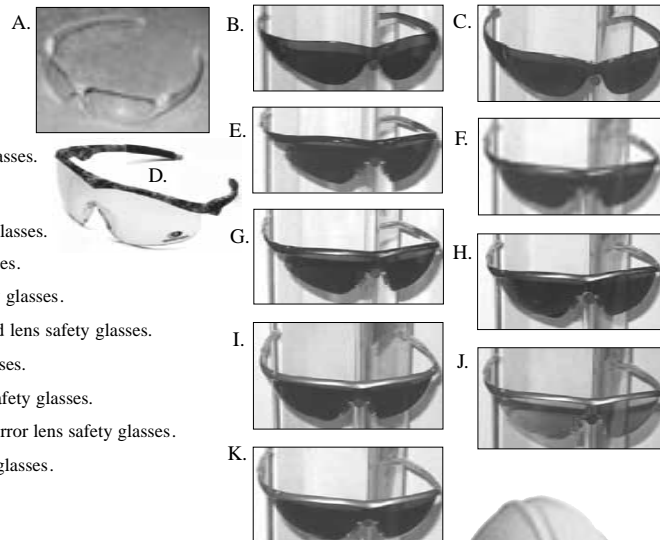
**G. TM128B** Tremor indigo blue frame, blue diamond lens safety glasses.

**H. TM13R** Tremor taupe frame, fire lens safety glasses.

**I. TM148B** Tremor steel frame, blue diamond lens safety glasses.

**J. TM149** Tremor steel frame, indoor/outdoor clear mirror lens safety glasses.

**K. TM14G** Tremor steel frame, emerald lens safety glasses.

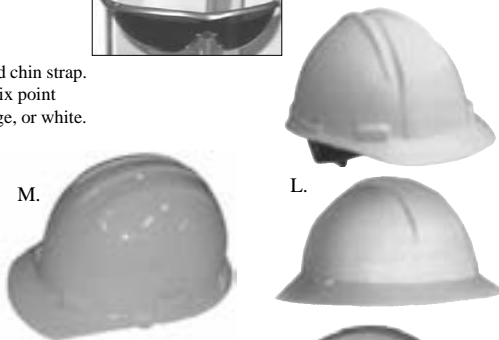


### Salisbury

#### L. Hard Hats Type I

Four point nylon web suspension with forehead comfort band, crown pad and chin strap. Available with wide brims or front brims. Wide brim is also available with six point suspension when ordered with ratchet adjustment. Available in yellow, orange, or white.

Models	Description	Suspension
SA29	Front brim w/quick fit adjustment	4 point
SA29R	Front brim w/ratchet adjustment	4 point
SA49	Wide brim w/pin-lock adjustment	4 point
SA49R	Wide brim w/ratchet adjustment	6 point



### Bullard

#### M. 4100R

Safety helmet with ratchet suspension. Available in white or yellow.

### HD Electric

**N. V-Watch** A personal voltage detector which detects the presence of electric fields surrounding electrical equipment. Compact and worn on the outside of clothing or other protective gear, V-watch provides an extra level of safety for workers who may be in danger of accidentally contacting electrical power lines and other energized electrical equipment. 9V alkaline battery.



### Kunz Glove Co. Inc.

**O. Work Gloves** Sewn in the gunn pattern with strong nylon thread.

Reinforced welted thumb seams and Davey tips on the fingers give extra wear and prevent seams from ripping in critical locations. A leather welt at the base of the fingers gives extra protection for a heavy wear area.

Buckskin, combines the qualities of comfort, dexterity and excellent wear. Great feeling even in cold or moist conditions.

We stock the "slip-on" style and the "gauntlet" style gloves.

Leather	Slip-On	4.5" Gauntlet	6.5" Gauntlet
Buckskin	400	148	174
Hvy Buckskin	N/A	150	175

#### P. 956E Drivers Style Glove

Economically priced, these gloves outwear any standard industrial grade glove. Buckskin leather with an elastic back for better comfort."

**Don't see it? Please call.**





## Lighting

### Streamlight

#### A. WOW

**12500** The flashlight that converts instantly to a headlamp. Alkaline powered, very tough polymer case.

#### TOPSPOT 2

**30004** Sophisticated flashlight that switches instantly into a headlamp. Tough and comfortable.

#### B. LITEBOX

**45117 Yellow 8w spot**

**45116 Orange 8w spot**

**45111 Orange 20w spot**

Standard issue to firefighters everywhere. Up to 70,000 candlepower and 8 hours between charges. Includes 120v AC, 12v DC chargers, shoulder strap, and mounting rack.

#### LITEBOX Vehicle Mount System

**45418 Yellow 8w spot** Includes truck mountable 12v DC direct wire mounting rack and shoulder strap. (No AC charger)

#### C. Hard Hat Light

**61050 TRIDENT** Multi tasking headlamp. Combines a super bright Krypton bulb with 3 LEDs, giving you high power and longevity. This lightweight headlamp features 3 way lighting for short, medium and long distances. Plus, with a durable design and a battery life of up to 120 hours.

#### 61007 SEPTOR

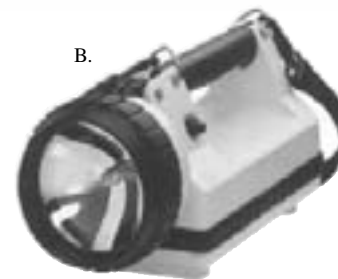
The combination of brilliant LEDs in this headlamp places the new Septor in a class by itself. Its piercing light comes from seven super bright white LEDs each with a life of 100,000 hours so you'll never replace a bulb again. The LEDs provide 3 way, hands free lighting for short, medium, and long distances. Plus, a 90 degree tilting head lets you zero in on the source you're illuminating. Constructed of virtually indestructible polymer, the new Septor has fully adjustable straps for the ultimate in hands free LED lighting.

### Able 2 Products

#### D. Sho-Me Flashlight

Sho-Me rechargeable light with spot bulb. Developed for use by fire departments, used worldwide for more than 15 years. Rechargeable battery lasts 1,000 or more charges. Halogen bulbs shine 12 1/2 times brighter than a regular flashlight. Tough, water-resistant housing with neoprene-booted toggle switch withstands rugged use. Six-volt, 4-amp hour, sealed lead-acid battery provides 3-4 hours of steady light or 6-8 hours of intermittent light per charge. Available with 12-volt DC direct wire vehicle charger. Housings available in black, blue, red or yellow. Spot bulb style. Comes complete with your choice of charger, sling-style shoulder strap, pivoting stand, and your choice of housing color. Emergency Rechargeable Lights have "Emergency ON" circuitry so that lights in their chargers automatically turn on when the power goes out.

Model	Description
09.2770/D	Wire Rechargeable Light with Spot Bulb and 12-volt DC direct wire vehicle charger
09.2770/DC	Rechargeable Light with Spot Bulb and 12-volt DC portable vehicle charger.
09.2770/DC	Blue Rechargeable Light with Spot Bulb and 12-volt DC portable vehicle charger.
.092770/DC	Red Rechargeable Light with Spot Bulb and 12-volt DC portable vehicle charger.
09.H7550	Replacement Spot Bulb



C.



D.





## Lighting

### HD Electric Hard Hat Lights

#### A. Rite-Lite II

Alkaline powered hard hat safety light.  
Includes one pair of mounting strips, 1"x2 3/4" long.

#### B. CY1-LYN Cyclops Single Bulb

##### CY2-LWN Cyclops Dual Bulb

Alkaline powered hard hat safety light.  
Available with one or two light configurations.

### GMP

#### C. Pole Trailer Light Kits

Aluminum frame with a durable bright yellow polyester powder coat.  
DOT approved lights and reflectors mounted on the back and both sides.  
Shock mounts provide greater bulb life. 40ft 18 gauge S.O. trailer cord  
with either a 4-way or 6-way plug. Flag holders are oversized to allow  
for swelling of the wooden staff when wet.

Model	Description	Wt. (lb)
70274	46" wide w/4-way plug	26
70276	46" wide w/6-way plug	26
70277	24" wide w/4-way plug	14
70278	24" wide w/6-way plug	14
26006	4-way socket only	2oz
26007	6-way socket only	2oz

### Hastings

#### D. 12-282

Pole warning flag and light. Comes with double holder, ratchet & strap,  
(2) flags w/mast, and a red amber light.

#### 12-283

Pole warning flag and light. Comes with double holder,  
ratchet & strap, (2) flags w/mast.

#### 12-227

Single flag/light holder only with ratchet strap.

#### 12-229

Fiberglass staff with red fluorescent flag.

#### 12-234

Replacement fluorescent red flag 14"x14" square.

A.



B.



C.



D.





## Equipment

### Single Drum Puller-Tensioner Model T-1DPT-60

A heavy-duty single drum puller-tensioner, the WAGNER-SMITH Model T-1DPT-60 can be used in a wide range of stringing and tensioning applications. Both simple to operate and easy to maintain, the Model T-1DPT-60 is another innovative WAGNER-SMITH product designed and developed to meet the changing needs of the powerline construction industry.

#### MAJOR OPERATING / SAFETY FEATURES

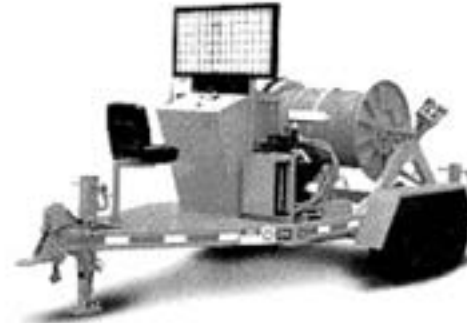
- Internally pressure compensated closed-loop hydraulic system, minimizes heat build up of hydraulic fluid while in the tensioning mode. Can preset desired pulling or tensioning pressure.
- The reel and spindle assembly lift straight out of the machine without having to shift to the side. Spring applied, hydraulic pressure released safety brake is standard in the main drive line for operator safety.
- All unit operating controls are located at the operators station, off the ground, for operator safety.
- Steel pulling drum, hydraulic levelwind assembly, free-wheeling brake with 16" bronze disc, safety screen and seat are all included as standard features.

#### STANDARD FEATURES

Levelwind	Post type with removable top roller, hydraulically operated from control stand
Engine	30 hp class, water cooled, diesel
Front Hitch	3" Lunette eye
Lighting	D.O.T. Regulation
Front Jack	Manual crank type
Rear Jacks	Manual pin type
Tires	9.5R16.5 load range "E"
Axle(s)	Tandem 6,000 lb. capacity
Suspension	Leaf Spring
Brakes	Electric w/Breakaway Switch

#### OPTIONS AVAILABLE

- Hydraulic front jack
- Underground pulling reel
- Combination Overhead/Underground hydraulic operated levelwind
- Breakaway reel for reconductoring
- Vandalism package
- Reel shaft arbores



#### MODEL T-1DPT-60 SPECIFICATIONS

##### UNIT PERFORMANCE (standard pulling reel)

Continuous Torque Rating	60,000 in. lbs.
Line Speed (average)	2.5 mph
Full Drum Line Pull Rating	2,850 lbs.

##### STANDARD PULLING REEL

Diameter (O.D.)	42"
Inside Width	44"
Core Diameter	18"
Approx. Line Capacity	10,000 ft. of 5/8" rope

##### REEL CAPACITY

Max. Diameter	72"
Max. Width	56"
Max. Weight	8,000 lbs.
Reel Spindle Diameter	2 3/4"

##### DIMENSIONS & WEIGHT (standard pulling reel)

Unit Length	17 ft. 1 in.
Unit Width	8 ft. 0 in.
Unit height	8 ft. 2 in.
Net Weight	4,800 lbs.
GVWR	13,000 lbs.



## Equipment

### Single Drum Puller-Tensioner Model T-1DPT-90

A heavy-duty single drum puller-tensioner, the WAGNER-SMITH Model T-1DPT-90 can be used in a wide range of stringing and tensioning applications. Both simple to operate and easy to maintain, the Model T-1DPT-90 is another innovative WAGNER-SMITH product designed and developed to meet the changing needs of the powerline construction industry.

#### MAJOR OPERATING/SAFETY FEATURES

Internally pressure compensated closed-loop hydraulic system, minimizes heat build up of hydraulic fluid while in the tensioning mode. Can preset desired pulling or tensioning pressure.

The reel and spindle assembly lift straight out of the machine without having to shift to the side. Spring applied, hydraulic pressure released safety brake is standard in the main drive line for operator safety.

All unit operating controls are located at the operators station, off the ground, for operator safety.

Steel pulling drum, hydraulic levelwind assembly, free-wheeling brake with 16" disc, safety screen and seat are all included as standard features

#### STANDARD FEATURES

Levelwind	Post type with removable top roller, hydraulically operated from control stand
Engine	80 hp class, water cooled, diesel
Front Hitch	3" Lunette eye
Lighting	D.O.T. Regulation
Front Jack	Manual crank type
Rear Jacks	Manual pin type
Tires	215/75R17.5 load range "H"
Axle(s)	Tandem 8,000 lb. capacity
Suspension	Leaf Spring
Brakes	Electric w/Breakaway Switch

#### OPTIONS AVAILABLE

Hydraulic Front Jack  
Underground pulling reel  
Combination Overhead/Underground hydraulic operated levelwind.  
Breakaway reel for reconductoring  
Vandalism package.  
Reel shaft arbores.  
Wheel Chocks with holders



#### MODEL T-1DPT-90 SPECIFICATIONS

##### UNIT PERFORMANCE (standard pulling reel)

Continuous Torque Rating	90,000 in. lbs.
Line Speed (average)	4 mph
Full Drum Line Pull Rating	3,750 lbs.

##### STANDARD PULLING REEL

Diameter (O.D.)	48"
Inside Width	43 1/2"
Core Diameter	18"
Approx. Line Capacity	10,000 ft. of 5/8" rope

##### REEL CAPACITY

Max. Diameter	72"
Max. Width	56"
Max. Weight	10,000 lbs.
Reel Spindle Diameter	2 3/4"

##### DIMENSIONS & WEIGHT (standard pulling reel)

Unit Length	18 ft. 9 in.
Unit Width	8 ft. 0 in.
Unit height	8 ft. 4 in.
Net Weight	6,630 lbs.
GVWR	17,800 lbs.





## Equipment

### Single Drum Puller-Tensioner Model T-1DPT-180

A heavy-duty single drum puller-tensioner, the WAGNER-SMITH Model T-1DPT-180 can be used in a wide range of stringing and tensioning applications.

Both simple to operate and easy to maintain, the Model T-1DPT-180 is another innovative WAGNER-SMITH product designed and developed to meet the changing needs of the powerline construction industry.

#### MAJOR OPERATING/SAFETY FEATURES

Internally pressure compensated closed-loop hydraulic system, minimizes heat build up of hydraulic fluid while in the tensioning mode. Can preset desired pulling or tensioning pressure.

The reel and spindle assembly lift straight out of the machine without having to shift to the side. Spring applied, hydraulic pressure released safety brake is standard in the main drive line for operator safety.

All unit operating controls are located at the operators station, off the ground, for operator safety.

Steel pulling drum, hydraulic levelwind assembly,

free-wheeling brake with 16" disc, safety screen and seat are all included as standard features.

#### STANDARD FEATURES

Levelwind	Post type with removable top roller, hydraulically operated from control stand
Engine	115 hp class, water cooled, diesel
Front Hitch	3" Lunette eye
Lighting	D.O.T. Regulation
Front Jack	Manual crank type
Rear Jacks	Manual pin type
Tires	215/75R17.5 load range "H"
Axle(s)	Tandem 8,000 lb. capacity
Suspension	Leaf Spring
Brakes	Electric w/Breakaway Switch

#### OPTIONS AVAILABLE

Hydraulic Front Jack  
Capstan shaft extension  
Underground pulling reel  
Combination Overhead/Underground hydraulic operated levelwind.  
Breakaway reel for reconductoring  
Vandalism package.



#### MODEL T-1DPT-180 SPECIFICATIONS

##### UNIT PERFORMANCE (standard pulling reel)

Continuous Torque Rating	180,000 in. lbs.
Line Speed (average)	4.0 mph
Full Drum Line Pull Rating	6,000 lbs.

##### STANDARD PULLING REEL

Diameter (O.D.)	60"
Inside Width	43 1/2"
Core Diameter	20"
Approx. Line Capacity	12,000 ft. of 7/8" rope

##### REEL CAPACITY

Max. Diameter	72"
Max. Width	52"
Max. Weight	8,200 lbs.
Reel Spindle Diameter	3 1/2"

##### DIMENSIONS & WEIGHT (standard pulling reel)

Unit Length	19 ft. 3 in.
Unit Width	8 ft. 0 in.
Unit height	8 ft. 6 in.
Net Weight	8,900 lbs.
GVWR	17,700 lbs.



## Single Drum Puller Model T-1DP-300

A heavy-duty single drum puller, the WAGNER-SMITH Model T-1DP-300 can be used in a wide range of stringing applications. Both simple to operate and easy to maintain, the Model T-1DP-300 is another innovative WAGNER-SMITH product designed and developed to meet the changing needs of the powerline construction industry.

### MAJOR OPERATING/SAFETY FEATURES

Internally pressure compensated closed-loop hydraulic system, pulling pressure. Spring applied, hydraulic pressure released safety brake is standard in the main drive line for operator safety. All unit operating controls are located at the operators station, off the ground, for operator safety. Steel pulling drum, hydraulic levelwind assembly, free-wheeling brake, safety screen and seat are all included as standard features.



### STANDARD FEATURES

- Levelwind Hydraulic with removable top roller, hydraulically operated from control stand.
- Engine 170 hp class, water cooled, diesel
- Front Hitch 3" Lunette eye
- Lighting D.O.T. Regulation
- Front Jack Hydraulic operated
- Rear Jacks Hydraulic operated
- Tires 295/80R22.5 load range „H"
- Axle(s) Tandem 25,000 lb. capacity
- Suspension Leaf Spring
- Brakes Full Air w/ABS Brake System

### MODEL T-1DP-300 SPECIFICATIONS UNIT PERFORMANCE

Continuous Torque Rating	300,000 in. lbs.
Line Speed (average)	4.5 mph
Full Drum Line Pull Rating	10,000 lbs.

### PULLING DRUM

Diameter (O.D.)	54"
Inside Width	52"
Core Diameter	23" 3/4"
Approx. Rope Capacity	26,000 ft. of 1/2" Swaged Steel <i>16,600 ft. of 5/8" Swaged Steel</i>

### DIMENSIONS & WEIGHT

Unit Length	23 ft. 6 in.
Unit Width	8 ft. 0 in.
Unit height	9 ft. 11 in.
Net Weight	16,240 lbs. (Approx.) w/26,000 ft. of 1/2" Swaged Steel
Total Weight	29,760 lbs. (Approx.)
Tongue Weight	2,904 lbs. (Approx.)



## Equipment

### Four Drum Pole Mounted Puller Model SPM-4DP-13.5

The WAGNER-SMITH Model SPM-4DP-13.5 is a drum type puller having a wide range of speed and pulling capabilities. Its four drum design offers users increased productivity reducing the man-hours necessary for many stringing operations.

The unit is powered from a user supplied auxiliary hydraulic system, such as a line truck or bucket truck.

The unit has a freewheeling feature which allows the pulling line to be pulled out without having to power the unit, and features a back stop to prevent accidental payout of pulling line.



#### MODEL SPM-4DP-13.5 SPECIFICATIONS

##### UNIT PERFORMANCE EMPTY DRUM FULL DRUM

(based on 20 gpm @ 2000 PSI)

Rated Line Pull	2,200 lbs.	880 lbs.
Max Line Pull		
@ 3000 PSI intermittent	3,300 lbs.	1,300 lbs.
Line Speed		
based on 20 gpm	0-312 ft/min.	0-775 ft/min.
Line Speed(average)	543 ft/min	543 ft/min

##### DRUM

Quantity	Four (4)
Diameter (O.D.)	27"
Inside Width	23"
Cone Diameter	10.75"

##### REEL CAPACITY

5/16 inch rope	8,500 ft.
3/8 inch rope	6,000 ft.
7/16 inch rope	4,500 ft.
1/2 inch rope	3,500 ft.

##### DIMENSIONS & WEIGHT

Unit Length	72"
Unit Width	60"
Unit Height	48"
Weight (less rope)	2,151 lbs.

##### FEATURES

- Standard leadscrew levelwind
- Freewheeling drums with disc drag brakes
- Individual drum clutches
- Anti-rotation device on the drive system
- Fine control manual caliper on drag brakes
- Optional trailer mounting



## Equipment

### Four Drum Puller Model T-4DP-36

A small, compact, high-performance puller that is both economical and very versatile in use, the WAGNER-SMITH Model T-4DP-36 can be used in a wide range of light distribution stringing and/or pilot line applications. Its four drum design offers users increased productivity reducing the man-hours necessary for many stringing operations.

Both simple to operate and very easy to maintain, The Model T-4DP-36 is another innovative WAGNER-SMITH product designed and developed to meet the changing needs of the powerline construction industry.



#### MODEL T-4DP-36 SPECIFICATIONS

##### UNIT PERFORMANCE

Continuous Torque Rating	36,000 in. lbs.
Full Drum Line Pull Rating	2,000 lbs.
Line Speed (Average)	3.3 mph

NOTE: The above figures are for single drum pulling. Levelwind provided is set up for pulling one drum at a time.

##### DRUMS

Diameter (O.D.)	36"
Core Diameter	10 3/4"
Inside Width	23"
Approx. Rope Capacity	8,000 ft. of 1/2" rope

##### POWER TRAIN

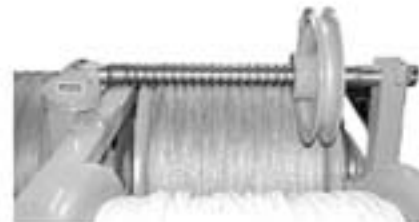
30 hp water-cooled diesel engine, vari-volume pump and fixed drive motor with hydraulic brake in main drive. Each drum can be disconnected for freewheeling with disc brake overspin control. Hydraulic pressure control, drum speed control and gauges are panel mounted.

##### DIMENSIONS & WEIGHT

Unit Length	15 ft. 6 in.
Unit Width	8 ft. 0 in.
Unit Height	8 ft. 1 in.
Net Weight	6,850 lbs.
GVWR	8,900 lbs.

##### FEATURES

- Levelwind Automatic diamond leadscrew type
- Console Off the ground for operator safety w/safety screen & seat
- Front Hitch 3" Lunette eye
- Lighting D.O.T. Regulation
- Front Jacks Manual w/quick release inner leg
- Rear Jacks Manual pin type
- Tires 215/75R17.5 load range "H"
- Axle(s) Single, 8,000 lb. capacity
- Suspension Leaf Spring
- Brakes Electric w/Breakaway Switch





## Equipment

### Four Drum Puller Model T-4DP-75

A versatile, trailer mounted, four drum puller the WAGNER-SMITH Model T-4DP-75 can be used in a wide range of heavy distribution and light transmission stringing applications.

Both simple to operate and easy to maintain, the Model T-4DP-75 is another innovative WAGNER-SMITH product designed and developed to meet the changing needs of the powerline construction industry.

#### MAJOR OPERATING/SAFETY FEATURES

- Internally pressure compensated closed-loop hydraulic system, minimizes heat build up of hydraulic fluid. Can preset desired pulling pressure.
- Each drum can be disconnected for free wheeling with brake overspin control. Hydraulic pressure control, drum speed control and gauges are panel mounted.
- Spring applied, hydraulic pressure released safety brake is standard in the main drive line for operator safety.
- All unit operating controls are located at the operators station, off the ground, for operator safety. Safety screen and seat are all included as standard features.

#### STANDARD FEATURES

- Levelwind (2) Two Hydraulically actuated
- Engine 80 hp class, water-cooled, diesel
- Front Hitch Adjustable 3" Lunette eye
- Lighting D.O.T. Regulation
- Front Jack Manual crank type
- Rear Jack Manual pin type
- Tires 215/75R17.5 load range "H"
- Axle(s) Tandem 10,000 lb. capacity
- Suspension Leaf spring
- Brakes Electric with Breakaway switch

#### OPTIONS AVAILABLE

- Hydraulic operated front and/or rear jacks
- Vandalism package
- Air/hydraulic axle brakes.



#### MODEL T-4DP-75 SPECIFICATIONS

##### UNIT PERFORMANCE

Continuous Torque Rating	75,000 in. lbs.
Full Drum Line Pull Rating	3,125 lbs.
Line Speed (average)	4 mph

NOTE: The above figures are for single drum pulling. Divide these figures by the number of drums in use. Levelwinds provided are set-up for pulling one drum at a time.

##### DRUMS

Diameter	48"
Core Diameter	14"
Inside Width	25"
Approx. Rope Capacity	10,000 ft. of 5/8"

##### DIMENSIONS & WEIGHT

Unit Length	18 ft. 11 in.
Unit Width	8 ft. 0 in.
Unit Height	8 ft. 2 in.
Net Weight	13,930 lbs.
Tow Eye Weight	2,025 lbs.
GVWR	21,360 lbs.



## Equipment

### Four Drum Puller Model T-4DP-75

A versatile, trailer mounted, four drum puller the WAGNER-SMITH Model T-4DP-75 can be used in a wide range of heavy distribution and light transmission stringing applications.

Both simple to operate and easy to maintain, the Model T-4DP-75 is another innovative WAGNER-SMITH product designed and developed to meet the changing needs of the powerline construction industry.

#### MAJOR OPERATING/SAFETY FEATURES

- Internally pressure compensated closed-loop hydraulic system, minimizes heat build up of hydraulic fluid. Can preset desired pulling pressure.
- Each drum can be disconnected for free wheeling with brake overspin control. Hydraulic pressure control, drum speed control and gauges are panel mounted.
- Spring applied, hydraulic pressure released safety brake is standard in the main drive line for operator safety.
- All unit operating controls are located at the operators station, off the ground, for operator safety. Safety screen and seat are all included as standard features.

#### STANDARD FEATURES

- |               |                                   |
|---------------|-----------------------------------|
| • Levelwind   | (2) Two Hydraulically actuated    |
| • Engine      | 80 hp class, water-cooled, diesel |
| • Front Hitch | Adjustable 3" Lunette eye         |
| • Lighting    | D.O.T. Regulation                 |
| • Front Jack  | Manual crank type                 |
| • Rear Jack   | Manual pin type                   |
| • Tires       | 215/75R17.5 load range "H"        |
| • Axle(s)     | Tandem 10,000 lb. capacity        |
| • Suspension  | Leaf spring                       |
| • Brakes      | Electric with Breakaway switch    |

#### OPTIONS AVAILABLE

- Hydraulic operated front and/or rear jacks
- Vandalism package
- Air/hydraulic axle brakes.



#### MODEL T-4DP-75 SPECIFICATIONS

##### UNIT PERFORMANCE

Continuous Torque Rating	75,000 in. lbs.
Full Drum Line Pull Rating	3,125 lbs.
Line Speed (average)	4 mph

NOTE: The above figures are for single drum pulling. Divide these figures by the number of drums in use. Levelwinds provided are set-up for pulling one drum at a time.

##### DRUMS

Diameter	48"
Core Diameter	14"
Inside Width	25"
Approx. Rope Capacity	10,000 ft. of 5/8"

##### DIMENSIONS & WEIGHT

Unit Length	18 ft. 11 in.
Unit Width	8 ft. 0 in.
Unit Height	8 ft. 2 in.
Net Weight	13,930 lbs
Tow Eye Weight	2,025 lbs.
GVWR	21,360 lbs.



## Equipment

### "V" Groove Puller-Tensioner Model T-VBWPT-340-72

Compact traction units were designed primarily as pullers, however, the inherent capability of their hydrostatic system permits them to operate equally well as tensioners. Having the self-loading, powered reel carrier is an integral part of the unit, and is another feature that adds to the overall economy and flexibility of the unit. Reels of conductor may be loaded and empty reels unloaded without a crane on the location. Pulling line sizes may be quickly changed to fit the job or length can be added for longer pulls with minimum difficulty.

Being able to operate equally well as a puller or a tensioner means that this unit can pull out old conductor, wind it on a scrap reel, unload it, then pick up a reel of new conductor and tension it out with the tag line as a pulling line. For contractors or utility companies performing a wide variety of jobs, these units are unsurpassed anywhere. Whether it's stringing new conductor, reconductoring existing circuits, these combination units are at their best.

Conductor or pulling line is embedded snugly in the resilient rubber lined V groove of the bullwheel protected from twisting, scuffing or slippage. The fingertip control provided by a unique hydraulic system with preset maximum tension, adds a new dimension to tension string safety, while the unit's compactness simplifies access and operation in narrow alleys or congested streets.

Notice that the bullwheel pivots providing automatic alignment of the bullwheel with the point on the conductor reel from which the conductor is being payed off. During the pulling operation, the operator controls bullwheel movement to levelwind the pulling cable on the storage reel. The V-groove permits easy handling of cable splicing sleeves and accommodates a wide variety of cable, rope or conductor diameters. Replaceable segments assure quick replacement of bullwheel lining should hard usage cause excessive wear.

This combination of features in the V-groove Puller-Tensioner provide a safe, quick, and economical tension stringing unit.

Engine Power	170 hp (Diesel)
Transmission	Hydrostatic
Front Jack	Hydraulic
Rear Jacks	Hydraulic
Safety Chains	Standard
Reversible Tow Hitch	Standard
Control Panel Cover	Standard
ICC Lighting	Standard



#### UNIT PERFORMANCE

Continuous Pull	10,000 lbs. @ 4mph
Line Speed (Max.)	4.9 mph
Unit Length	24' 10"
Unit Width	8' 6"
Unit Height	10' 6"
Unit Length W/Max Reel	27' 0"
Unit Weight W/O Reel	18,960 lbs. (approx.)
Tongue Weight W/O Reel	5,500 lbs. (approx.)

#### BULLWHEEL SPECIFICATIONS

Diameter	72"
Groove Pitch Diameter	68"
Number of Grooves	1
Replaceable Segments	Yes
Bullwheel Lining	Rubber

#### REEL SPECIFICATIONS

Max. Reel	96" X 60"
Max. Reel Weight (std)	6,500 lbs.
Max. Reel Weight	26,000 lbs. (with rear jacks down & 5" Spindle)
Removable Reels	Standard
Hyd Self Loading	Standard
Spindle Diameter	3 1/2"
Optional	2 3/4" or 5"

#### UNDERCARRIAGE

Axle	Single (27.5K)
Tires	425/65R22.5 Load Range "J"
Brakes	Air (w/ABS)



## Equipment

### Reel Carrier-Tensioner Model T-BWT-3-31RC

A trailer mounted single reel carrier-tensioner, the WAGNER-SMITH Model T-BWT-3-31RC is designed for use in a wide range of stringing and tensioning application.

Both simple to operate and easy to maintain, the Model T-BWT-3-31RC is another innovative WAGNER-SMITH product designed and developed to meet the changing needs of the powerline construction industry.

#### MAJOR OPERATING / SAFETY FEATURES

- The reel and spindle assembly lifts straight out of the machine without having to shift to the side. No tools required for reel removal.
- Bronze brake discs are standard for smooth operation and low maintenance.
- All unit operating controls are located at the operators station, off the ground, for operator safety.
- A fairlead roller assembly is provided as standard.

#### STANDARD FEATURES

Tension Brakes	Manually actuated caliper/20 in. diameter Bronze disc brakes
Reel Brakes	Manually actuated caliper/16 in. diameter bronze disc brake
Front Hitch	Adjustable 3" Lunette eye
Lighting	D.O.T. Regulation
Front Jack	Manual crank type
Rear Jack	Manual pin type
Tires	11R x 17.5HC Load Range "H"
Axle	Single 10,000 lb. capacity
Suspension	Leaf spring
Brakes	Electric with Breakaway switch

#### OPTIONS AVAILABLE

- Hydraulic actuated bullwheel brakes
- Hydraulic actuated reel brake
- Manual reel rewind complete with handcrank
- Hydraulic reel rewind motor & hose



#### MODEL T-BWT-3-31RC SPECIFICATIONS

##### UNIT PERFORMANCE

Maximum Tension Rating	3,000 lbs
Line Speed (Average)	0 - 4 mph

##### BULLWHEEL TENSIONER

Diameter	31" (bottom of groove)
Groove Diameter	1.50"
Number of Grooves	5
Replaceable Segments	Yes
Bullwheel Lining	Elastomer (bolt-on)

##### REEL CARRIER

Max. Reel Diameter	84"
Max. Reel Width	48"
Max. Reel Weight	7,000 lbs.
Spindle Diameter	2 3/4" w/locking collars

##### DIMENSIONS & WEIGHT

Unit Length	16 ft. 7 in.
Unit Width	8 ft. 0 in.
Unit Height	8 ft. 7 in.
Net Weight	4,580 lbs.
GVWR	11,000 lbs.





## Equipment

### Two Reel Carrier-Tensioner Model T-BWT-3-31-2RC

A trailer mounted two reel carrier-tensioner, the WAGNER-SMITH Model T-BWT-3-31-2RC is designed for use in a wide range of stringing and tensioning applications.

Both simple to operate and easy to maintain, the Model T-BWT-3-31-2RC is another innovative WAGNER-SMITH product designed and developed to meet the changing needs of the powerline construction industry.

#### MAJOR OPERATING / SAFETY FEATURES

- The reel and spindle assembly lifts straight out of the machine without having to shift to the side. No tools required for reel removal.
- Bronze brake discs are standard for smooth operation and low maintenance.
- All unit operating controls are located at the operators station, off the ground, for operator safety.
- A fairlead roller assembly is provided as standard.

#### STANDARD FEATURES

Tension Brakes	Manually actuated caliper/20 in. diameter bronze disc brake
Reel Brakes	Manually actuated caliper/16 in. diameter bronze disc brake
Front Hitch	Adjustable 3" Lunette eye
Lighting	D.O.T. Regulation
Front Jack	Manual crank type
Rear Jack	Manual pin type
Tires	215/75R 17.5 Load Range "H"
Axles	Tandem 8,000 lb. capacity
Suspension	Leaf spring
Brakes	Electric with Breakaway switch

#### OPTIONS AVAILABLE

- Manual reel rewind complete with handcrank
- Hydraulic reel rewind motor & hose's



Shown with hydraulic rewind package.

#### MODEL T-BWT-3-31-2RC SPECIFICATIONS

##### UNIT PERFORMANCE

Maximum Tension Rating	3,000 lbs
Line Speed (Average)	0 - 4 mph

##### BULLWHEEL TENSIONER

Diameter	31" (bottom of groove)
Groove Diameter	1.50"
Number of Grooves	5
Replaceable Segments	Yes
Bullwheel Lining	Elastomer (bolt-on)

##### REEL CARRIER

Quantity	(2) Two
Max. Reel Diameter	72"
Max. Reel Width	48"
Max. Reel Weight	5,920 lbs.
Spindle Diameter	2 3/4" w/locking collars

##### DIMENSIONS & WEIGHT

Unit Length	20 ft. 8 in.
Unit Width	8 ft. 0 in.
Unit Height	8 ft. 5 in.
Net Weight	5,960 lbs.
GVWR	17,800 lbs.



## Equipment

### Reel Carrier-Tensioner Model T-BWT-4-38RC

A heavy-duty, trailer mounted single reel carrier-tensioner, the WAGNER-SMITH Model T-BWT-4-38RC is designed for use in a wide range of heavy distribution and light transmission applications.

Both simple to operate and easy to maintain, the Model T-BWT-4-38RC is another innovative WAGNER-SMITH product designed and developed to meet the changing needs of the powerline construction industry.

#### MAJOR OPERATING/SAFETY FEATURES

- The reel and spindle assembly lifts straight out of the machine without having to shift to the side. No tools required for reel removal.
- Bronze and Armoloy plated brake discs are standard for smooth operation and low maintenance.
- All unit operating controls are located at the operators station, off the ground, for operator safety.
- A fairlead roller assembly is provided as standard.

#### STANDARD FEATURES

Tension Brakes	Hydraulic caliper/28 in. diameter disc
Reel Brakes	Hydraulic caliper/20 in. diameter disc
Front Hitch	Adjustable 3" Lunette eye
Lighting	D.O.T. Regulation
Front Jack	Manual crank type
Rear Jack	Manual pin type
Tires	215/75R 17.5 load range "H"
Axle(s)	Tandem 8,000 lb. capacity
Suspension	Leaf spring
Brakes	Electric with Breakaway switch

#### OPTIONS AVAILABLE

Air or Vacuum/hydraulic axle brakes  
 Power Rewind Package  
 Rated Pressure - 2,000 PSI, Rated Flow 15GPM  
 Maximum Reel Torque - 11,250 lb./in  
 2 3/4 to 5 1/4 Standard Reel Arbor Adapters



#### MODEL T-BWT-4-38RC SPECIFICATIONS

##### UNIT PERFORMANCE

Maximum Tension Rating	4,000 lbs
Line Speed (Average)	0 - 4 mph

##### BULLWHEEL TENSIONER

Diameter	38" (bottom of groove)
Groove Diameter	1.50"
Number of Grooves	5
Replaceable Segments	Yes
Bullwheel Lining	Elastomer (bolt-on)

##### REEL CARRIER

Max. Reel Diameter	90"
Max. Reel Width	54"
Max. Reel Weight	10,000 lbs.
Spindle Diameter	2 3/4" w/locking collars

##### DIMENSIONS & WEIGHT

Unit Length	18 ft. 11 in.
Unit Width	8 ft. 0 in.
Unit Height	9 ft. 4 in.
Net Weight	5,820 lbs.
GVWR	17,600 lbs.





## Equipment

### Reel Carrier-Tensioner Model T-BWT-5-52RC

A heavy-duty, trailer mounted single reel carrier-tensioner, the WAGNER-SMITH Model T-BWT-5-52RC is designed for use in a wide range of heavy distribution and light transmission applications.

Both simple to operate and easy to maintain, the Model T-BWT-5-52RC is another innovative WAGNER-SMITH product designed and developed to meet the changing needs of the powerline construction industry.

#### MAJOR OPERATING/SAFETY FEATURES

- The reel and spindle assembly lifts straight out of the machine without having to shift to the side. No tools required for reel removal.
- Aluminum bronze brake discs are standard for smooth operation and low maintenance.
- All unit operating controls are located at the operators station, off the ground, for operator safety.
- A fairlead roller assembly is provided as standard.
- Rear bullwheel is "Tilted" for use with either RH or LH lay conductor.

#### STANDARD FEATURES

Tension Brakes	Hydraulic actuated caliper/42 in. diameter
Reel Brakes	Hydraulic actuated caliper/20 in. diameter
Front Hitch	Adjustable 3" Lunette eye
Lighting	D.O.T. Regulation
Front Jack	Manual crank type
Rear Jack	Manual pin type
Tires	215/75R 17.5 load range "H"
Axle(s)	Tandem 8,000 lb. capacity
Suspension	Leaf spring
Brakes	Electric with Breakaway switch

#### OPTIONS AVAILABLE

Air or Vacuum/hydraulic axle brakes
Power Rewind Package
Rated Pressure - 2,000 PSI, Rated Flow 15GPM
Maximum Reel Torque - 11,250 lb./in
Hydraulic reel drive motor assembly
2 1/4 to 5 1/4 Standard Reel Arbor Adapters



**MODEL T-BWT-5-52RC SPECIFICATIONS**  
(Unit shown includes power rewind package)

#### UNIT PERFORMANCE

Maximum Tension Rating	5,000 lbs
Line Speed (Average)	0 - 4 mph

#### BULLWHEEL TENSIONER

Diameter	52" (bottom of groove)
Groove Diameter	1.50"
Number of Grooves	5
Replaceable Segments	Yes
Bullwheel Lining	Elastomer (bolt-on)

#### REEL CARRIER

Max. Reel Diameter	96"
Max. Reel Width	56"
Max. Reel Weight	12,000 lbs.
Spindle Diameter	2 3/4" w/locking collars

#### DIMENSIONS & WEIGHT

Unit Length	20 ft. 2 in.
Unit Width	8 ft. 0 in.
Unit Height	9 ft. 10 in.
Net Weight	7,300 lbs



## Equipment

### Tensioner Model T-BWT-10-60

A trailer mounted 60" B.O.G. diameter single conductor bullwheel tensioner. The bullwheels are canted to minimize line twisting. Maximum line tension rating is 10,000 lbs. at up to 3.5 mph line speed.

Both simple to operate and easy to maintain the model T-BWT-10-60 is another innovative product designed and developed to meet the specific needs of the powerline construction industry.

#### MAJOR OPERATING/SAFETY FEATURES

- Bullwheel brakes are smooth running hydraulic calipers.
- All unit operating controls are located at the operators station, off the ground, for operator safety.
- Large diameter fairlead roller assembly is provided to reduce bending radius on input side.
- Rear bullwheel is "Tilted" for use with either RH or LH lay conductor.

#### STANDARD FEATURES

Tension Brakes	Hydraulic actuated caliper, 48" diameter
Front Hitch	3" Lunette eye
Lighting	D.O.T. Regulation
Front Jack	Manual crank type
Rear Jacks	Manual pin type
Tires	215/75R17.5HC load range "H"
Axle(s)	Tandem 8,000 lb. capacity
Suspension	Leaf Spring
Brakes	Electric w/ Breakaway Switch

#### UNIT PERFORMANCE

Maximum Tension Rating	10,000 lbs.
Line Speed (average)	0-3.5 mph



#### MODEL T-BWT-10-60 SPECIFICATIONS

##### BULLWHEEL TENSIONER

Diameter (O.D.)	60" (Bottom of Groove)
Groove Diameter	2 1/8"
Number of Grooves	5
Replaceable Segments	Yes
Bullwheel Lining	Elastomer (Bolt-on)
Tensioning Brakes	Hydraulic actuated caliper/disc
Brake Discs	48" Diameter

##### DIMENSIONS & WEIGHT

Unit Length	19 ft. 10 in.
Unit Width	8 ft. 0 in.
Unit height	8 ft. 10 1/2 in.
Net Weight	9,320 lbs.



## Equipment

### Tensioner Model T-BWT-10-72

A trailer mounted 72" B.O.G. diameter single conductor bullwheel tensioner. The bullwheels are canted to minimize line twisting. Maximum line tension rating is 10,000 lbs. at up to 4 mph line speed.

Both simple to operate and easy to maintain the model T-BWT-10-72 is another innovative product designed and developed to meet the specific needs of the powerline construction industry.

#### MAJOR OPERATING / SAFETY FEATURES

- Bullwheel brakes are smooth running hydraulic calipers.
- All unit operating controls are located at the operators station, off the ground, for operator safety.
- Large diameter fairlead roller assembly is provided to reduce bending radius on input side.
- Rear bullwheel is "Tilted" for use with either RH or LH lay conductor.

#### STANDARD FEATURES

Tension Brakes	Hydraulic actuated caliper, 48" diameter
Front Hitch	3" Lunette eye
Lighting	D.O.T. Regulation
Front Jack	Manual crank type
Rear Jacks	Manual pin type
Tires	215/75R17.5 load range "H"
Axle(s)	Tandem 8,000 lb. capacity
Suspension	Leaf Spring
Brakes	Electric w/ Breakaway Switch

#### UNIT PERFORMANCE

Maximum Tension Rating	10,000 lbs.
Line Speed (average)	0-4 mph



#### MODEL T-BWT-10-72 SPECIFICATIONS

##### BULLWHEEL TENSIONER

Diameter	72" (Bottom of Groove)
Groove Diameter	2 1/8"
Number of Grooves	5
Replaceable Segments	Yes
Bullwheel Lining	Elastomer (Bolt-on)
Tensioning Brakes	Hydraulic actuated caliper/disc
Brake Discs	48" Diameter

##### DIMENSIONS & WEIGHT

Unit Length	20 ft. 5 in.
Unit Width	8 ft. 0 in.
Unit height	9 ft. 8 in.
Net Weight	11,240 lbs.



## Equipment

### Tensioner Model T-2BWT-10-60

A trailer mounted 60" B.O.G. diameter two conductor bullwheel tensioner. The bullwheels are canted to minimize line twisting. Maximum line tension rating is 10,000 lbs. at up to 2.5 mph line speed per conductor.

Both simple to operate and easy to maintain the model T-2BWT-10-60 is another innovative product designed and developed to meet the specific needs of the powerline construction industry.

#### MAJOR OPERATING/SAFETY FEATURES

- Bullwheel brakes are smooth running hydraulic calipers.
- All unit operating controls are located at the operators station, off the ground, for operator safety.
- Large diameter fairlead roller assembly are provided to reduce bending radius on input side.
- Surge control package.
- Rear bullwheel is "Tilted" for use with either RH or LH lay conductor.

#### STANDARD FEATURES

Tension Brakes	Hydraulic actuated caliper, 48" diameter disc
Front Hitch	3" Lunette eye
Lighting	D.O.T. Regulation
Front Jack	Manual crank type
Rear Jacks	Manual pin type
Tires	215/75R17.5 load range "H"
Axle(s)	Tandem 8,000 lb. capacity
Suspension	Leaf Spring
Brakes	Electric w/ Breakaway Switch

#### UNIT PERFORMANCE (Per Conductor)

Maximum Tension Rating	10,000 lbs.
Line Speed (average)	0-2.5 mph



#### MODEL T-2BWT-10-60 SPECIFICATIONS

##### BULLWHEEL TENSIONER

Diameter (O.D.)	60" (Bottom of Groove)
Groove Diameter	2 1/8"
Number of Grooves	5
Replaceable Segments	Yes
Bullwheel Lining	Elastomer (Bolt-on)
Tensioning Brakes	Hydraulic actuated caliper/disc
Brake Discs	48" Diameter

##### DIMENSIONS & WEIGHT

Unit Length	19 ft. 8 in.
Unit Width	8 ft. 0 in.
Unit height	9 ft. 0 in.
Net Weight	15,020 lbs.



Surge Control Panel



## Equipment

### Tensioner Model T-2BWT-10-72

A trailer mounted 72" B.O.G. diameter two conductor bullwheel tensioner. The bullwheels are canted to minimize line twisting. Maximum line tension rating is 10,000 lbs. at up to 2.5 mph line speed per conductor.

Both simple to operate and easy to maintain the model T-2BWT-10-72 is another innovative product designed and developed to meet the specific needs of the powerline construction industry.

#### MAJOR OPERATING/SAFETY FEATURES

- Bullwheel brakes are smooth running hydraulic calipers.
- All unit operating controls are located at the operators station, off the ground, for operator safety.
- Large diameter fairlead roller assembly are provided to reduce bending radius on input side.
- Surge control package.
- Rear bullwheel is "Tilted" for use with either RH or LH lay conductor.

#### STANDARD FEATURES

Tension Brakes	Hydraulic actuated caliper, 48" diameter disc
Front Hitch	3" Lanette eye
Lighting	D.O.T. Regulation
Front Jack	Manual crank type
Rear Jacks	Manual pin type
Tires	215/75R17.5 load range "H"
Axle(s)	Tandem 8,000 lb. capacity
Suspension	Leaf Spring
Brakes	Electric w/ Breakaway Switch

#### UNIT PERFORMANCE (Per Conductor)

Maximum Tension Rating	10,000 lbs.
Line Speed (average)	0-2.5 mph



#### MODEL T-2BWT-10-72 SPECIFICATIONS

##### BULLWHEEL TENSIONER

Diameter (O.D.)	72" (Bottom of Groove)
Groove Diameter	2 1/8"
Number of Grooves	5
Replaceable Segments	Yes
Bullwheel Lining	Elastomer (Bolt-on)
Tensioning Brakes	Hydraulic actuated caliper/disc
Brake Discs	48" Diameter

##### DIMENSIONS & WEIGHT

Unit Length	19 ft. 8 in.
Unit Width	8 ft. 0 in.
Unit height	9 ft. 0 in.
Net Weight	15,020 lbs.



Surge Control Panel



## Equipment

### Underground Drum Puller Model T-UDP-240

The WAGNER-SMITH Model T-UDP-240 is a trailer mounted underground drum puller having a wide range of speed and pulling capabilities.

#### MAJOR OPERATING/SAFETY FEATURES

- Powered from an integral engine and closed-loop, pressure compensated, hydraulic system which enables the operator to preset the maximum pull the unit may exert. The hydraulic system allows single lever control of drum forward and reverse and pulling speed from zero to maximum speed.
- Freewheeling feature, with a mechanical overspin brake allows the pulling line to be hauled out without the need to run the engine.
- Automatic, self-reversing, levelwind for even winding of the pulling line on the drum.
- All unit operating controls are located at the operator's station, from the ground.
- Unit is equipped with an integral tension readout for continuous monitoring of line tension, speed, and footage. A laptop PC "Interface & Software" are available for recording of each pulling operation.

#### STANDARD FEATURES

- Front Hitch Adjustable 3" Lunette eye
- Lighting D.O.T. Regulation
- Front Jack Manual with quick release
- Rear Jacks Manual pin type
- Tires 9.5 x 16.5LT Load Range "E"
- Axle(s) Tandem 7,000 lb. capacity each
- Suspension Leaf spring
- Brakes Electric with Breakaway Switch

#### POWER TRAIN

30 HP water cooled diesel engine, vari-volume pump and fixed drive motor with hydraulic brake in main drive. Drum can be disconnected for freewheeling with mechanical brake overspin control. Hydraulic pressure control, drum speed control and gauges are panel mounted.



#### MODEL T-UDP-240 SPECIFICATIONS

##### UNIT PERFORMANCE

Continuous Torque Rating	240,000 in. lbs.
Full Drum Line Pull Rating	20,000 lbs.
Drum Speed	14.5 rpm, 29 rpm

##### STANDARD DRUM

Diameter	28"
Core Diameter	13.88"
Inside Width	40"
Approx. Rope Capacity	3,300 ft. of 5/8" wire rope

##### DIMENSIONS & WEIGHT

Unit Length	17 ft. 8 in.
Unit Width	8 ft. 0 in.
Unit Height	5 ft. 11 in.
Net Weight	8,360 lbs.
GVWR	12,600 lbs.





## Equipment

### Underground Puller Model T-UBWP-35

The WAGNER-SMITH Model T-UBWP-35 is a trailer mounted underground puller having a wide range of speed and pulling capabilities.

#### MAJOR OPERATING/SAFETY FEATURES

##### STANDARD FEATURE

Front Hitch	3" Lunette eye
Lighting	D.O.T. Regulation
Front Jack	Manual with quick release inner leg
Rear Jacks	Manual pin type
Tires	215/75R17.5 load range "H"
Axle	Single 8,000 lbs. capacity
Suspension	Leaf Spring
Brakes	Electric with Breakaway Switch

##### POWER TRAIN

30 HP water cooled diesel engine, variable displacement pump, bullwheel drive, 2 speed hydraulic motor.

##### LINE MONITOR SYSTEM

Line Pull (can be preset to maximum desired)  
Line Speed



#### MODEL T-UBWP-35 SPECIFICATIONS

##### UNIT PERFORMANCE

Continuous Torque Rating	35,000 in. lbs.
Line Speed	126 fpm in Low Speed 252 fpm in High Speed
Maximum Line Pull	8,500 lbs.

##### STANDARD STORAGE DRUM

Diameter	22"
Inside Width	34"
Core Diameter	10.63"
Approximate Capacity	3,000 ft. of 7/16" wire rope 4,500 ft. of 3/8" wire rope

##### BULLWHEELS

Diameter	8" (bottom of groove)
Grooves	6 sized for 3/8" or 7/16" dia.

##### DIMENSIONS & WEIGHT

Unit Length	16 ft. 8 in.
Unit Width	7 ft. 0 in.
Unit Height	5 ft. 9 in.
Unit Weight	8,000 lbs.



## Equipment

### Four Reel-Reel Carrier Model T-4RC-48x48-16

A trailer mounted, three or four place reel carrier, the WAGNER-SMITH Model T-4RC-48x48-16 is designed to transport and tension cable or conductor reels up to 72 inches in diameter, 48 inches wide, and weighing up to 4,115 pounds per reel.

#### MAJOR OPERATING/SAFETY FEATURES

- Quick change type reel and spindle assemblies lift straight out of the unit without having to shift to the side. No tools are required for reel removal.
- Reel spindles may incorporate an optional mechanical manual rewind to allow the operator to rewind conductor via a hand crank or external hydraulic supply when job is completed.



#### STANDARD FEATURES

- Front Hitch
  - Lighting
  - Front Jack
  - Rear Jacks
  - Grounding Lugs
  - Tires
  - Axle(s)
  - Suspension
  - Brakes
- Adjustable 3" Lunette eye  
D.O.T. Regulation  
Manual crank type  
Manual pin type  
Mounted front and rear  
215/75R 17.5 Load Range "H"  
Tandem 8,000 lb. capacity  
Slipper spring  
Electric with wet cell battery and breakaway switch



#### OPTIONS AVAILABLE

- Mechanical manual rewind
- Hydraulic drive motor assembly

#### DIMENSIONS & WEIGHT

Unit Length	27 ft. 1 in.
Unit Width	8 ft. 0 in.
Unit Height	6 ft. 1 in.
Net Weight	5,620 lbs.
GVWR	17,800 lbs.

#### MODEL T-4RC-48X48-16 SPECIFICATIONS

##### UNIT PERFORMANCE REEL CARRIER

Quantity	Two (4) or	Three (3)
Max. Reel Diameter	48"	72"
Max. Reel Width	54"	54"
Max. Reel Weight	3,085 lbs. (each)	4,115 lbs. (each)
Spindle Diameter	2 3/4" w/ locking collars	
Reel Brakes	Manually actuated caliper 16" diameter "Bronze" solid disc brake.	
Reel Loading	Quick change type without altering reel brake adjustment.	



## Equipment

### Two Reel-Reel Carrier Model T-2RC-84X56-16

A trailer mounted, two-place reel carrier, the WAGNER-SMITH Model T-2RC-84X56-16 is designed to transport and tension cable or conductor reels up to 84 inches in diameter, 56 inches wide, and weighing up to 6,725 pounds per reel.

#### MAJOR OPERATING/SAFETY FEATURES

- Quick change type reel and spindle assemblies lift straight out of the unit without having to shift to the side. No tools are required for reel removal.
- Reel spindles may incorporate an optional mechanical manual rewind to allow the operator to rewind conductor via a hand crank or external hydraulic supply when job is completed.

#### STANDARD FEATURES

- |                  |   |
|------------------|---|
| • Front Hitch    | Adjustable 3" Lunette eye                           |
| • Lighting       | D.O.T. Regulation                                   |
| • Front Jack     | Manual crank type                                   |
| • Rear Jacks     | Manual pin type                                     |
| • Grounding Lugs | Mounted front and rear                              |
| • Tires          | 215/75R17.5 load range "H"                          |
| • Axle(s)        | Tandem 8,000 lb. capacity                           |
| • Suspension     | Slipper spring                                      |
| • Brakes         | Electric with wet cell battery and breakaway switch |

#### OPTIONS AVAILABLE

- Mechanical manual rewind
- Hydraulic drive motor assembly

#### DIMENSIONS & WEIGHT

Unit Length	21 ft. 2 in.
Unit Width	8 ft. 0 in.
Unit Height	6 ft. 8 in.
Net Weight	4,150 lbs.
GVWR	17,600 lbs.



#### MODEL T-2RC-84X56-16 SPECIFICATIONS

##### UNIT PERFORMANCE REEL CARRIER

Quantity	Two (2)
Max. Reel Diameter	84"
Max. Reel Width	56"
Max. Reel Weight	6,725 lbs. (each)
Spindle Diameter	2 3/4" w/locking collars
Reel Brakes	Manually actuated caliper 16" diameter "Bronze" solid disc brake.
Reel Loading	Quick change type without altering reel brake adjustment.



## Equipment

### Single Reel-Reel Carrier Model T-RC-96x54-12

A heavy-duty, trailer mounted single reel carrier, the WAGNER-SMITH Model T-RC-96x54-12 is designed to transport up to a 12,000 lb. reel of overhead or underground conductor.

#### MAJOR OPERATING/SAFETY FEATURES

- The reel and spindle assembly lifts straight out of the machine without having to shift to the side. No tools required for reel removal.
- Aluminum Bronze brake disc is standard for smooth operation and low maintenance.
- Low profile design for ease in changing out reels.

#### STANDARD FEATURES

- Front Hitch Adjustable 3" Lunette eye
- Lighting D.O.T. Regulation
- Front Jack Manual crank type
- Rear Jacks Manual pin type
- Tires 215/75R17.5 load range "H"
- Axle(s) Tandem 8,000 lb. capacity
- Suspension Leaf spring
- Brakes Electric with Breakaway switch

#### OPTIONS AVAILABLE

- Air or vacuum/hydraulic trailer brakes
- Hydraulic drive motor with control valve assembly



#### MODEL T-RC-96x54-12 SPECIFICATIONS

##### REEL CAPACITY

Max. Reel Diameter	96"
Max. Reel Width	54"
Max. Reel Weight	12,000 lbs.
Spindle Diameter	2 3/4" complete w/locking collar
Reel Brake	Hydraulic actuated caliper/20" Aluminum Bronze disc

##### DIMENSIONS & WEIGHT

Unit Length	16 ft. 2 in.
Unit Width	8 ft. 0 in.
Unit Height	6 ft. 5 in.
Net Weight	3,080 lbs.
GVWR	17,600 lbs.



## Equipment

### Single Drum Puller-Tensioner Model T-1DPT-180

A heavy-duty single drum puller-tensioner, the WAGNER-SMITH Model T-1DPT-180 can be used in a wide range of stringing and tensioning applications. Both simple to operate and easy to maintain, the Model T-1DPT-180 is another innovative WAGNER-SMITH product designed and developed to meet the changing needs of the powerline construction industry.

#### MAJOR OPERATING/SAFETY FEATURES

Internally pressure compensated closed-loop hydraulic system, minimizes heat build up of hydraulic fluid while in the tensioning mode. Can preset desired pulling or tensioning pressure.

The reel and spindle assembly lift straight out of the machine without having to shift to the side. Spring applied, hydraulic pressure released safety brake is standard in the main drive line for operator safety.

All unit operating controls are located at the operators station, off the ground, for operator safety.

Steel pulling drum, hydraulic levelwind assembly, free-wheeling brake with 16" disc, safety screen and seat are all included as standard features.

#### STANDARD FEATURES

Levelwind	Post type with removable top roller, hydraulically operated from control stand
Engine	115 hp class, water cooled, diesel
Front Hitch	3" Lunette eye
Lighting	D.O.T. Regulation
Front Jack	Manual crank type
Rear Jacks	Manual pin type
Tires	215/75R17.5 load range "H"
Axle(s)	Tandem 8,000 lb. capacity
Suspension	Leaf Spring
Brakes	Electric w/Breakaway Switch

#### OPTIONS AVAILABLE

Hydraulic Front Jack  
Capstan shaft extension  
Underground pulling reel  
Combination Overhead/Underground hydraulic operated levelwind.  
Breakaway reel for reconductoring  
Vandalism package.



#### MODEL T-1DPT-180 SPECIFICATIONS

##### UNIT PERFORMANCE (standard pulling reel)

Continuous Torque Rating	180,000 in. lbs.
Line Speed (average)	4.0 mph
Full Drum Line Pull Rating	6,000 lbs.

##### STANDARD PULLING REEL

Diameter (O.D.)	60"
Inside Width	43 1/2"
Core Diameter	20"
Approx. Line Capacity	12,000 ft. of 7/8" rope

##### REEL CAPACITY

Max. Diameter	72"
Max. Width	52"
Max. Weight	8,200 lbs.
Reel Spindle Diameter	3 1/2"

##### DIMENSIONS & WEIGHT (standard pulling reel)

Unit Length	19 ft. 3 in.
Unit Width	8 ft. 0 in.
Unit height	8 ft. 6 in.
Net Weight	8,900 lbs.
GVWR	17,700 lbs.



## Equipment

### Fiber Tensioner Model T-BWT-4-61

A trailer mounted 61" B.O.G. diameter bullwheel tensioner, the Wagner-Smith model T-BWT-4-61 is designed for left hand lay OPGW fiber optic cable and ADSS fiber. The open-sided bullwheels are canted to minimize line twisting. Maximum line tension rating is 4,000 lbs. at up to 4 mph line speed.

Both simple to operate and easy to maintain the model T-BWT-4-61 is another innovative product designed and developed to meet the specific needs of the fiber optics industry.

#### MAJOR OPERATING / SAFETY FEATURES

- Bullwheel brakes are smooth running hydraulic calipers.
- Brake disc have flare holes cut to help dissipate heat.
- Open sided bullwheel design.
- All unit operating controls are located at the operators station, off the ground, for operator safety.
- Large diameter fairlead roller assembly is provided to reduce bending radius on input side.

#### STANDARD FEATURES

Tension Brakes	Hydraulic actuated caliper, 42" diameter
Front Hitch	Adjustable 3" Lunette eye
Lighting	D.O.T. Regulation
Front Jack	Manual crank type
Rear Jacks	Manual pin type
Tires	215/75R x 17.5 Load Range "H"
Axle	Single 8,000 lb. capacity
Suspension	Leaf Spring
Brakes	Electric w/ Breakaway Switch



#### MODEL T-BWT-4-61 SPECIFICATIONS

##### UNIT PERFORMANCE

Maximum Tension Rating	4,000 lbs.
Line Speed (average)	0-4 mph

##### BULLWHEEL TENSIONER

Diameter	61" (Bottom of Groove)
Groove Diameter	1.50"
Number of Grooves	3
Replaceable Segments	Yes
Bullwheel Lining	Elastomer (Bolt-on)
Tensioning Brakes	Hydraulic actuated caliper/disc
Brake Discs	42" Diameter
Bullwheels	Cantilevered

##### DIMENSIONS & WEIGHT

Unit Length	17 ft. 1 1/2 in.
Unit Width	8 ft. 0 in.
Unit height	9 ft. 6 in.
Net Weight	5,480 lbs.



## Pole Trailer Model PT-17



### MODEL PT-17 SPECIFICATIONS

Closed Length	30 ft (approx)
Extended Length	45 ft (approx)
Overall Width	90 in.
Bolster Height	40 in.
Bed Size	
Width	87 in.
Length	49 in.
Depth	8 in.
Front Hitch	3" Lunette Eye
Brakes	Electric with Breakaway Switch
Axle	Single 15,000 lb. Capacity
Suspension	Leaf Springs
Tires (Dual)	215/75R x 17.5 Load Range "H"
Lighting	D.O.T. Regulation
Front Jack	Mechanical, 1-Speed
Net Weight	3,920 lbs
GVWR	17,000 lbs



## Pole Material Trailer Model MPT-14



### MODEL MPT-14 SPECIFICATIONS

Closed Length	26 ft (approx)
Extended Length	36 ft (approx)
Overall Width	92 in.
Reel Cradle	Removable
Bed Size	
Width	5 ft
Length	10 ft
Depth	19 in
Front Hitch	3" Lunette Eye
Brakes	Electric with Breakaway Switch
Axles	Tandem 7K Capacity
Suspension	Leaf Springs
Tires	9.50 x 16.5 Load Range "E"
Lighting	D.O.T. Regulation
Front Jack	Mechanical, 1-Speed
Net Weight	4,300 lbs
GVWR	14,000 lbs





## Equipment

### Reel Stands

The WAGNER-SMITH line of reel stands combine rugged construction and ease of maintenance at a very economical price.

All WAGNER-SMITH reel stands feature a bronze disc/mechanically applied caliper braking system designed for safe, smooth payout. Mechanical and hydraulic rewind drives are available as options.



#### WAGNER-SMITH REEL STAND SPECIFICATIONS

	MODEL RS-48x48-8	MODEL RS-72x48-8	MODEL RS-84x54-8
<b>REEL CAPACITY</b>			
Capacity	1 Reel	1 Reel	1 Reel
Maximum Reel Diameter	48"	72"	84"
Maximum Reel Width	48"	48"	54"
Maximum Reel Weight	8,000 lbs.	8,000 lbs.	8,000 lbs.
Reel Spindle Diameter	2 3/4"	2 3/4"	2 3/4"
<b>REEL BRAKE</b>	16" Bronze disc mechanically applied caliper	16" Bronze disc mechanically applied caliper	16" Bronze disc mechanically applied caliper
<b>DIMENSIONS &amp; WEIGHT</b>			
Unit Length	3 ft. 6 in.	5 ft. 0 in.	5 ft. 0 in.
Unit Width	6 ft. 2 in.	6 ft. 3 in.	6 ft. 8 in.
Unit Height (Centerline of spindle)	2 ft. 5 in.	3 ft. 5 in.	3 ft. 10 in.
Net Weight	425 lbs.	780 lbs.	810 lbs.
<b>OPTIONS AVAILABLE</b>	<ul style="list-style-type: none"> <li>• 20" Bronze disc</li> <li>• Mechanical rewind</li> <li>• Hydraulic drive motor assembly</li> </ul>	<ul style="list-style-type: none"> <li>• 20" Bronze disc</li> <li>• Mechanical rewind</li> <li>• Hydraulic drive motor assembly</li> </ul>	<ul style="list-style-type: none"> <li>• 20" Bronze disc</li> <li>• Mechanical rewind</li> <li>• Hydraulic drive motor assembly</li> </ul>



## Equipment

### Powered Reel Stand Model PRS-108x80-20

The WAGNER-SMITH line of reel stands combine rugged construction and ease of maintenance at a very economical price.

All WAGNER-SMITH reel stands feature a Armoloy Coated disc/hydraulically applied caliper braking system designed for safe, smooth payout.

#### WAGNER-SMITH PRS-108x80-20 SPECIFICATIONS

##### STANDARD FEATURES

- Hydraulic drive motor assembly
- Quick change type reel and spindle assemblies lift straight out of the unit without having to shift to the side. No tools are required for reel removal.



##### REEL BRAKE

Brake Type                      Hydraulically Applied  
Caliper actuated by a  
handpump and valve  
package.

Brake Disc                      28" Dia. Armoloy  
coated steel

##### MAXIMUM HYDRAULIC POWER REQUIREMENT

Flow                              20 gpm

##### REEL CAPACITY

Max. Reel Diameter	108"
Max. Reel Width	80"
Max. Reel Weight	20,000 lbs.
Spindle Diameter	5" complete w/ locking collar

##### DIMENSIONS & WEIGHT

Unit Length	10 ft. 3 in.
Unit Width	7 ft. 6 in.
Unit Height	5 ft. 11 in.
Net Weight	2,100 lbs.



## Reconductoring/Salvage Breakaway Reels



### MODEL BR-60X48

Diameter	60 in.
Inside Width	41 1/2 in.
Overall Width	48 3/4 in.
Taper Diameter	30 in.—20 in.
Arbor Diameter	5 1/4 in.
Weight	1,400 lbs.

### MODEL BR-84X54

Diameter	84 in.
Inside Width	47 in.
Overall Width	54 1/4 in.
Taper Diameter	32 in.—24 in.
Arbor Diameter	5 1/4 in.
Weight	1,834 lbs.



## Tool Repair

### Blocks

Brewer Tichner  
Bethea  
Western Power  
Skookum

### Presses

Burndy\*\*  
Alcoa  
Anderson  
Huskie  
T&B  
Fairmont\*\*

### Miscellaneous

RT-20 Reel Thing  
RT-40 Reel Thing  
Collapsible Reels

### Cutters

H.K. Porter  
Klein  
Greenlee/Fairmont  
Kearney

### Hoists

A.B. Chance  
Lug-All  
Ratcliff  
Duff Norton  
Little Mule

### Miscellaneous

Hot Sticks  
Speed System Strippers  
Fairmont Hydraulic Tools  
Stanley Hydraulic Tools

\*\* Factory Authorized Repair Service-We stock a large supply of parts.  
Please call for your repair needs.

Wagner Smith Equipment  
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Tualatin, OR 97062 Attention: Bob  
800-444-7064