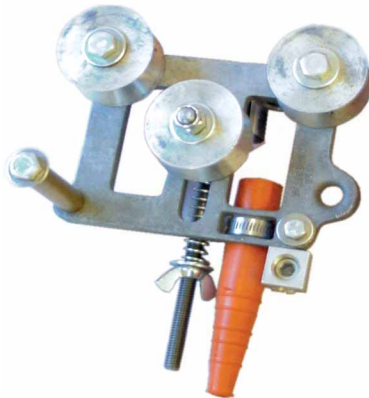




| Cat #         | Settings   |
|---------------|--|
| 4444          | Off/ Test-240V/ Battery/ URD: 15kV/ 25kV/ 35kV               |
|               | Overhead: 4.2kV/ 15kV/ 25kV/ 35kV/ 45kV/ 69kV                |
| 4244          | Off/ 240V/ 4.2kV/ 15kV/ 25kV/ 35kV/ 69kV/ 230kV              |
| 4344          | Off/ 240V/ 4.2kV/ 15kV/ 25kV/ 35kV/ 69kV/ 230kV/ 345kV/500kV |
| Complete Kits |  |
| 4356          | 4244 Tester, 4315 Case, 2500 Shotgun Adapter                 |
| 4367          | 4344 Tester, 4315 Case, 2500 Shotgun Adapter                 |
| 4469          | 4444 Tester, 4315 Case, 2500 Shotgun Adapter                 |
| Accessories   |  |
| 4445          | Voltage Detector Tester                                      |
| 4315          | Storage Case   |
| 2500          | Shotgun Adapter  |



4445 Voltage Detector Tester



2155 Traveling Ground  
\*\*Other Models Available\*\*

| Cat # | Description      | Main Line | Weight  |
|-------|------------------|-----------|---------|
| 2155  | Stringing Ground | 1033MCM   | 5.3 lbs |
| 336A  | Stringing Ground | 336MCM    | 3 lbs   |
| 1590C | Stringing Ground | 1590MCM   | 12 lbs  |

Visit our website:  
[www.Brenco-Inc.com](http://www.Brenco-Inc.com)

## Line Construction Equipment

### Telescopic Disconnect Sticks



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, replace bulbs and complete many other overhead tasks all with one tool.

**Standard versus heavy duty**, both units use the same telescoping tube design. The tip section of the heavy duty units is slightly larger in diameter so that each telescoping tube is slightly larger, resulting in a more rigid tool when fully extended, important where additional weight may be frequently encountered on maintenance tasks.

### Standard Duty (1 1/16" Tip)

| Cat #     | Extended Length | Retracted Length | Base Dia. | # of Sections |
|-----------|-----------------|------------------|-----------|---------------|
| T403-2205 | 8'              | 26"              | 1.88"     | 5             |
| C403-1023 | 8'              | 56"              | 1.25"     | 2             |
| C403-1017 | 12'             | 57"              | 1.5"      | 3             |
| C403-1018 | 16'             | 59"              | 1.69"     | 4             |
| C403-1019 | 20'             | 61"              | 1.87"     | 5             |
| C403-1020 | 25'             | 63"              | 2.06"     | 6             |
| C403-1021 | 30'             | 65"              | 2.25"     | 7             |
| C403-1022 | 35'             | 67"              | 2.5"      | 8             |

**Heavy Duty (1 1/4" Tip)**  
Continued on top of next page....

\*\*Other Sticks Available\*\*

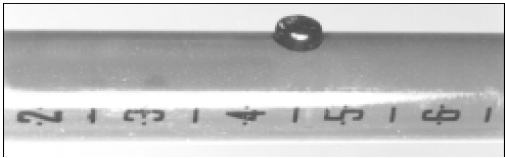
### Telescopic Disconnect Sticks

\* Continued from previous page

#### Heavy Duty (1 1/4" Tip)

| Cat #     | Extended Length | Retracted Length | Base Dia. | # of Sections |
|-----------|-----------------|------------------|-----------|---------------|
| C403-1597 | 8'              | 56"              | 1.25"     | 2             |
| C403-1598 | 12'             | 57"              | 1.69"     | 3             |
| C403-1599 | 16'             | 59"              | 1.88"     | 4             |
| C403-1600 | 20'             | 61"              | 2.06"     | 5             |
| C403-1601 | 25'             | 63"              | 2.25"     | 6             |
| C403-1602 | 30'             | 65"              | 2.5"      | 7             |

### 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, three lengths and English or Metric scales are available.



### English Measuring Telo-Poles

| Catalog Number | Number of Sections | Lengths       |                |
|----------------|--------------------|---------------|----------------|
|                |                    | Min (Storage) | Max (Extended) |
| C403-1021E     | 7                  | 61"           | 30'            |
| C403-1022E     | 8                  | 63"           | 35'            |
| C403-1739E     | 8                  | 48"           | 25'            |

### Metric Measuring Telo-Poles

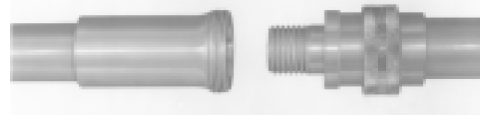
| Catalog Number | Number of Sections | Lengths       |                |
|----------------|--------------------|---------------|----------------|
|                |                    | Min (Storage) | Max (Extended) |
| C403-1021M     | 7                  | 1.56 m        | 9.09 m         |
| C403-1022M     | 8                  | 1.62 m        | 10.6 m         |

### Disconnect Sticks

**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.



H3046-13



**Spliced Disconnect Sticks**  
Slice for H3146 Series

For convenience in transporting and / or where greater length is required, **splice disconnect sticks** are available. The splice is strong and rigid. Easy to put together and easy to take apart. The taking-down feature of these sticks makes them especially handy to carry on line trucks or in tool trailers.

### Switch Sticks

| Cat #    | Pole Dia. & Length | Weight   |
|----------|--------------------|----------|
| H3046    | Head Only          | 4 oz.    |
| H3046-11 | 1 1/4" x 4'        | 1.25 lb  |
| H3046-12 | 1 1/4" x 6'        | 1.5 lb   |
| H3046-13 | 1 1/4" x 8'        | 2.25 lb  |
| H3046-14 | 1 1/4" x 10'       | 2.75 lb  |
| H3046-17 | 1 1/4" x 12'       | 3.375 lb |

### Disconnect Sticks

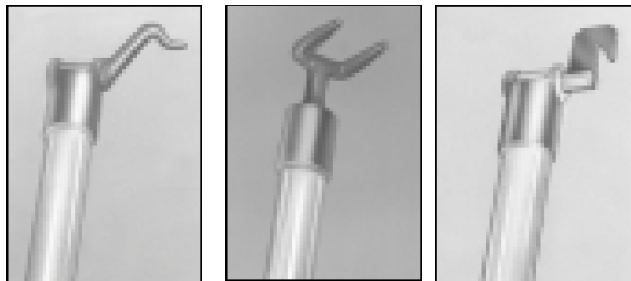
| Cat #    | Pole Dia. & Length | Weight  |
|----------|--------------------|---------|
| H3046-2  | Head Only          | 5 oz.   |
| H3046-22 | 1 1/2" x 6'1"      | 2.25 lb |
| H3046-23 | 1 1/2" x 8'1"      | 2.81 lb |
| H3046-24 | 1 1/2" x 10'1"     | 3.44 lb |
| H3046-15 | 1 1/2" x 12'1"     | 4 lb    |
| H3046-16 | 1 1/2" x 16'1"     | 5.31 lb |
| H3046-18 | 1 1/2" x 18'1"     | 6 lb    |
| H3046-20 | 1 1/2" x 20'1"     | 6.56 lb |

### Spliced Disconnect Sticks

| Cat #    | Pole Dia. & Length            | Weight  |
|----------|-------------------------------|---------|
| H3146-12 | 1 1/4" x 6' & 1 1/2" x 6'1"   | 6 lb    |
| H3146-16 | 1 1/4" x 8' & 1 1/2" x 8'1"   | 7.5 lb  |
| H3146-18 | 1 1/4" x 8' & 1 1/2" x 10'1"  | 8.25 lb |
| H3146-20 | 1 1/4" x 10' & 1 1/2" x 10'1" | 9 lb    |
| H3146-24 | 1 1/4" x 12' & 1 1/2" x 12'1" | 10.5 lb |

### Tie Sticks

Epoxiglas Tie Sticks are made with a variety of heads to meet every lineman's particular preference. Rotary Prong Tie Sticks, most linemen find are speedy and easy to operate for handling looped ties. Two Prong Tie Sticks are preferred by many linemen for handling hot ties with loops. Rotary Blade Tie Sticks have a swivel action that permits greater freedom of movement than fixed blade types



Rotary Prong

Two-Prong

Rotary Blade

| Cat #    | Tie Sticks   |              | Length | Weight  |
|----------|--------------|--------------|--------|---------|
|          | Head         | End          |        |         |
| H1855-19 | Rotary Prong | Universal    | 8'3"   | 3 lb    |
| H1855-20 | Two Prong    | Universal    | 8'4"   | 4 lb    |
| H1855-25 | Rotary Prong | Rotary Blade | 8'2"   | 3.5 lb  |
| H1855-26 | Rotary Blade | Universal    | 8'3"   | 3.25 lb |

### All-Angle Cog Wrench

Controls on the **All-Angle Cog Wrench** permit operator efficiency in locating the wrench on energized hardware. The hand-grip steadies the tool and holds the cog housing in place while the pole is rotated, turning the cogs to engage the wrench on the nut or bolt.



The angle of the wrench head in relation to the handle is adjustable within a range of 140 degrees. Wing nuts on either side of the head tighten to hold the head in a friction-locked position during use.

This Epoxiglas Hot Line Tool is 1 1/2" in diameter with 3/8" diameter fiberglass control rod. The hand-grip is aluminum alloy, the cog housing is bronze alloy and the gears are hardened steel.

| Cat #     | All Angle Cog Wrench Description | Weight |
|-----------|----------------------------------|--------|
| C403-0184 | 6'                               | 7 lb   |
| C403-0185 | 8'                               | 7.5 lb |
| C403-0186 | 10'                              | 8 lb   |

### Cable Lift Tool

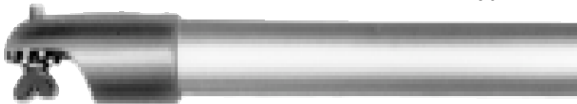
The Epoxiglas Cable Lift Tool was originally designed to move heavy electrical cables in mines, but also serves as a efficient method of moving other heavy cables on the ground. The tool is 40" in overall length and has two 1/2" diameter spiral grab hooks.



C403-1078

**Universal Poles**

H1760-4

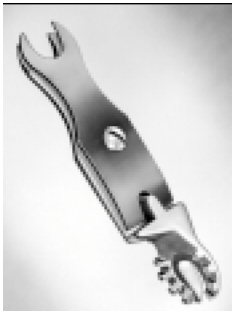


Designed for use as a hot stick handle for Universal Tools, Universal Poles are made of Epoxiglas and lightweight aluminum castings. The splined universal tools fit under the thumbscrew of the spline on the universal pole for the rigid hot stick tool up to 90 degrees in relation to the pole depending upon the individual tool design; a universal adapter may be added between the pole and tool to gain any angle desired. The storm tool is a universal pole with special rubber insulator skirt shown below.

H1761



**Universal Tool Accessories**



**Pin Holder**

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.

M4455-2

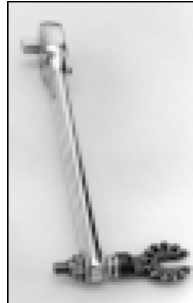
**Cutout Tool**

While this tools was designed for removing and replacing the doors of enclosed cutouts, its finger-like grasp makes it useful on many other jobs where a sure grip is required. Jaws open to accommodate an object 3 3/4" inches wide. All parts that contact porcelain are plastisol covered.



M4455-5

**If you do not see an accessory you need please give us a call.**



**Ratchet Wrench  
1/2" Square Drive**

This ratchet wrench is used for tightening bolts in substation equipment, hardware bolts on transmission and distribution lines, etc.

M4455-6

**Disconnect**

Used for opening and closing switches, opening enclosed cutouts, etc. Aluminum



M4455-9



**Chuck Blank**

Screw drivers, hacksaws, and other tools may be inserted in this device and secured by soldering. For wingnut tightened Chuck Blank order M4455-37.

M4455-10

**Snapout Cotter  
Key Remover**

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.



M4455-12



M4455-13

**Snapout disconnect**

This tool imparts a hammer blow to the pulling of a cutout door or disconnect switch. Release of the compression spring by a downward jerk of pole gives momentum to the blow, permitting operation in a confined area. The amount of additional momentum depends upon the abruptness of the pull.



M4455-15

**Locating Pin**

Used as a drift pin in aligning bolt holes as an aid in bolt and pin insertions. It is recommended for making hardware connections on tower transmission lines and line dead ends where aligning or hardware fitting is difficult.

**Folding Rule**

Adaptable to many used. It is particularly suited for obtaining measurements near live conductors in congested areas.



M4455-16



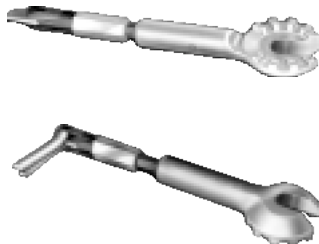
M4455-17

**Fixed Prong Tie Stick Head**

Often preferred for manipulating tie wires which have looped ends. Useful in close quarters where loose ends of tie wire must be rolled up to prevent contact with crossarm or hardware while untying.

**Cotter Key Installing Tool**

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.



M4455-18



M4455-19

**Cotter Key Pusher**

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.



M4455-22

**Ball Socket Adjuster**

Useful in controlling the adapter between clevis clamps and ball and socket insulator pins.



M4455-23

**Hack Saw**

**Hack Saw**

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

**Paint Brush**

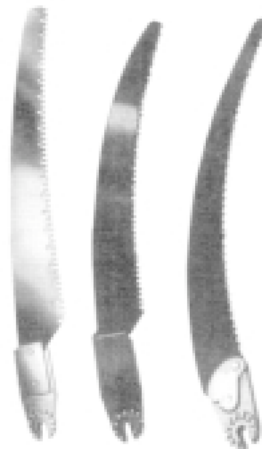
A three-inch brush, with bristles set in rubber, for painting around live apparatus. Useful for applying conductor paint on insulator heads



M4455-25

**Pruning Saws**

Any of three styles can be used with Pistol-Grip Handle. Tree trimmers, Universal or Telescoping Tools.



Saw M4455-26 has deep-notched teeth for fast pullout.

Saw M4455-26A has finer teeth for quick cut.

Saw C403-2213 has black, Teflon coating on fine-toothed blade for smooth, no stick action.

**Scabbards**

C403-3045 Fits 14" M4455-26A

C403-3046 Fits 18" M4455-26 & C403-2213







**Screw Driver**

Ideal for a number of odd jobs where an insulated handle is needed.

M4455-28



**Clamp Stick Head**

A Universal Clamp Stick Head for use with Eye Screw Grounding Clamps. The 6" head is for long eyescrew grounding clamps

M4455-29B



**Link Stick Head**

Use with light conductors. The clamp will hook into a cum-a-long rig. 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.

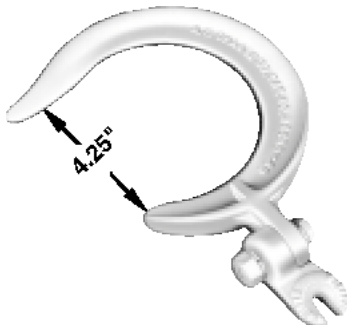
M4455-36

**Clear Vision Mirror**

Angle adjustment enables the operator to inspect insulators, switch bases, and other equipment which is difficult to see without coming in contact with energized conductors.



M4455-38



**Shepherd Hook**

The self-aligning shepherd hook is designed for pulling and lifting insulator strings. Swivel action permits it to rotate and maintain its alignment with the insulator at all times. Heat treated aluminum

alloy. M4455-39

**Fixed Blade Tie Stick Head**

For manipulating tie wires with or without looped ends. The sharp V-notched blade gets into tight places to pry tie wires loose. The head is set at 60 degree angle from the pole when attached, for ease in operation.



M4455-40

**Flexible Wrench Head 1/2" Square Drive**

Made to fit standard wrench sockets. Flexibility permits use at various angles.



M4455-46



**Skinning Knife**

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.

M4455-50

**Conductor Cleaning Brush**

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.

M1889 w/ Hand Grip

M1889 Box of 10 Replacement Brushes



M4455-63



**Storm Tool**

A universal pole extension with rubber insulator skirts. Splined fitting at top of tool receives other universal tools. Overall length 19 1/2".

M4455-64

**Pistol Grip Saw Handle**

Developed for use with pruning saw when limbs are convenient and insulation is not needed Aluminum alloy



M4455-66



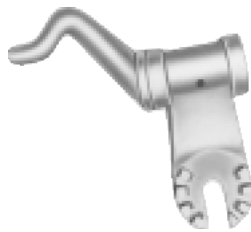
**Adjustable Insulator Forks**  
Designed to grasp 9" and 10" disk insulators used in dead end construction, will raise most pin type insulators up to 15 lb. Fiber jaws open and close by rotating screw.

**M4455-67** Jaws adjust from 3" to 4.25" across inside center of fork. (Pictured to the left)

**T403-1101** For polymer insulators, jaws adjust from 2.25" to 3.5"

**Rotary Prong Tie Stick Head**

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.



**M4455-69**



**Rotary Blade Tie Stick Head**

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.

**M4455-70**

**Pointed Disconnect Head**

A Pointed Disconnect head for use on certain types of disconnect switches. Made of aluminum alloy.



**M4455-71**



**Conductor Gauge**

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 conductor.

Range: #4 Cu. - 4/0 ACSR

**M4455-72**



**All-Purpose Cotter Key Tool**

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.

**M4455-82**



**Split-Bolt Connector Tool**

Used to install or remove split bolts and jumpers on energized lines. Supplied with four sockets to fit all sizes of split-bolt connectors. The sockets are 11/16", 3/4", 13/16", and 7/8" across flats respectively.

**M4455-73**

**Fuse Puller**

The 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.

**M4455-77** 1/2" - 1 1/2" Fuse

**M4455-78** 1 1/2" - 2 1/2" Fuse



**M4455-77**



**Spiral Disconnect**

Extremely effective in opening switches and removing and installing cutout doors on porcelain enclosed type cutouts. Also called "Pigtail" Disconnect.

**M4455-79**

**Tree & Rope Hook**

The Universal Tree and Rope Hook is made of aluminum alloy and is attached to a universal pole to push tree limbs out of the way of hot-stock work and to clear rope if it becomes tangled



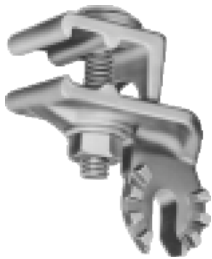
**M4455-80**

**M4455-84****Universal Adapter**

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

**Hammer**

Used for many operations around energized conductors such as moving conductors such as moving suspension clamps and other pieces of hardware requiring a forceful blow.

**M4455-85****M4455-86****Vise Grip Holder**

Permits linemen to use Vise Grip pliers to install bolts and other hardware close to hot lines. Tie stick or other hot stick releases grip.

**Ball Socket Adjuster**

Used on heavy socket clevises particularly where aluminum suspension and dead end clamps are attached to ball and socket insulators.

**M4455-87****M4455-88****Bolt Head Wrench**

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.

**Ratchet Wrench**

This Ratchet Wrench is for tightening square nuts on 5/8" pole line hardware, regardless of the length of the bolt running beyond it. The long socket permits wrench handles to swing past crossarm when tightening top ridge pin nut.

**M4455-89****C403-2270****Aerosol Can Holder**

By pulling the rope on this tool, a prong reaches out to depress the nozzle of an aerosol can apply to insulators or insecticides to bee and wasp nests on poles and crossarms. Also useful for applying paint, lubricant, etc., in hard to reach places.

**Conductor Cleaning Brush**

Semi-tubular shape allows linemen to clean 6" of entire circumference of conductor with two stick position. 1 1/4" dia. Tube with Universal fitting.

**M4455-92****M4455-96****Cotter Key Puller**

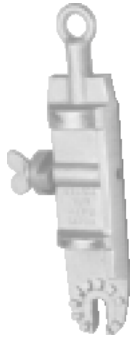
This Cotter Key Puller is used to partially withdraw a ball-socket cotter key so that the insulator can be removed from another insulator hanger. This puller with its thin prong is preferred for prying out standard keys deeply set on long insulator strings.

**Tool for "W" Keys**

This tool is used for handling the "W" shaped keys used in suspension insulators which are popular in western Europe and Japan.

**M4455-97**





**M4455-98**

**Super Tester Adapter**

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

**Knocker**

Designed to knock out and pull the cotter keys on for-type insulators, the Knocker Tool is spring assisted for greater impact in restricted space and under adverse working conditions. The Knocker has a standard universal fitting one end and a Universal fitting one end and a Universal fitting with wingnut on the other end to receive various Cotter Key Tools shown previously.



**C403-0011**

**Clevis Pin Installer**

This tool has particular application on EHV hardware and insulators where the pin must be placed in semi recessed areas. The three finger device is spring-loaded with cadmium-plated music wire for positive grip.

**M4455-102**



**Ball Socket Adjuster**

Similar to the M4455-87 Ball Socket Adjuster, this Adjuster is designed to handle socket adapters up to 2 3/4" inches wide.

**C403-0126**



**M4455-103**

**Cotter Key Holder**

Used to install cotter keys into semi-recessed 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 once engagement is made.

**Plastic Insulator Tool**

Plastic coating of the Ball and Socket Adjuster prevents damage to Epoxilator distribution dead end insulators during lifting or rotating of the insulator. Arms of the tool are designed to fit between the skirts of the insulator.



**C403-0177**

**Cotter Key Tool C403-0005**

Used for ball and socket insulator couplings, this tool is used to push the cotter key into position where great force is required.



**Cotter Key Tool**

The Cotter Key Tool is a companion tool to Part No. **C403-0005**, both designed for ball and socket type insulator couplings. **C403-0005** enters the socket opening to force the cotter key out while **C403-0006** shown here forces the key back into position. Effectiveness of both tools is enhanced with the use of the Universal Knocker.



**C403-0006**

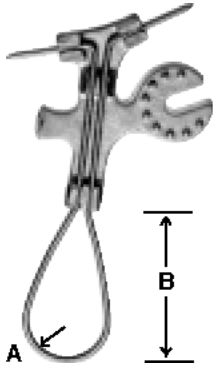


**All Angle Pliers**

Designed to grasp from any angle and tighten by clockwise rotation of the Universal Tool handle. The Jaws are held firmly in position with a wing-nut. Used as a holding device for retaining bolt heads and loose hardware, adjusting arcing horns, replacing cotter keys, etc.

**C403-0175**

**There are other accessories available!**



**Hot Rodder Tool**

Ideal for applying line ties and other formed wire products on energized lines. The smaller unit (C403-1071) is particularly adaptable to Super Top-Ties. The loop type work end permits rotational control which is difficult with conventional tying tools.

| Catalog # | Dim. A | Dim. B | Weight |
|-----------|--------|--------|--------|
| C403-1071 | 17/32" | 1 3/4" | 12 oz. |
| C403-0834 | 11/16" | 3"     | 13 oz. |



Wire Tie Claw **C403-1416**



Utility Head **C403-1417**

**Hot Line Applicator Tools for Rubber Line Hose and Blankets**

Designed to grasp the extended lip on Class 4 rubber line hose, these tools also permit placement and removal of rubber cover-up blankets with insulated hotsticks.

**Select from two styles, three lengths**

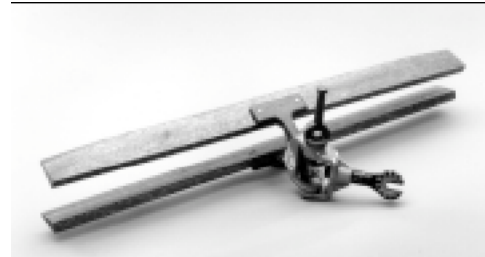
Available in two styles to fit either clampsticks or universal hotsticks, each style comes in three wood blade lengths.



**C403-2505**

**Clamp Stick Applicators**

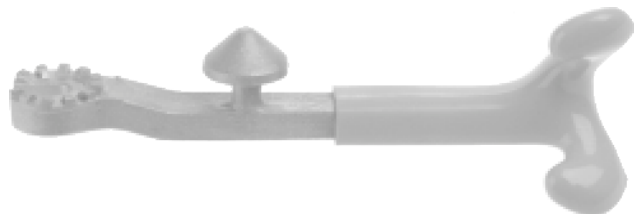
| Cat #     | Description         | Weight  |
|-----------|---------------------|---------|
| C403-2505 | Clampstick Tool 6"  | 1.7 lbs |
| C403-2506 | Clampstick Tool 24" | 2.5 lbs |
| C403-2507 | Clampstick Tool 36" | 3 lbs   |



**C403-2527**

**Universal Stick Applicators**

| Cat #     | Description        | Weight  |
|-----------|--------------------|---------|
| C403-2525 | Universal Tool 6"  | 1.7 lbs |
| C403-2526 | Universal Tool 24" | 2.5 lbs |
| C403-2527 | Universal Tool 36" | 3 lbs   |



Fuse Grappler Tool **C403-3284**

**Grip-All Clamp Sticks (Shotguns)**

The most versatile tool in a lineworker's hands, the Grip-All stick puts an easy-to-control "finger" on an insulated pole. Although primarily designed for installing hot line and grounding clamps, it serves both overhead and underground circuits with various end 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 Epoxiglas 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



**C403-0293**

**M1867**  
Universal  
Tool  
Adapter



**M4455-98**  
Adapter permits  
secure handling  
of Super-Tester  
Voltage detector  
with Grip-All  
Stick

Adapter shown being  
used in Grip-All  
Stick



**External Rod Shotgun Sticks**

| Catalog # | Description         | Weight   |
|-----------|---------------------|----------|
| C403-0291 | 1 1/4" x 4' 5"      | 5 3/4 lb |
| C403-0292 | 1 1/4" x 6' 5 1/2"  | 6 1/2 lb |
| C403-0293 | 1 1/4" x 8' 5 1/2"  | 7 1/4 lb |
| C403-0294 | 1 1/4" x 10' 5 1/2" | 8 lb     |
| C403-0295 | 1 1/4" x 12' 5 1/2" | 8 3/4 lb |

**Internal Rod Grip-All (Shotgun)  
W/ Universal End**

| Catalog # | Length | Weight  |
|-----------|--------|---------|
| 132621    | 4' 8"  | 4.1 lbs |
| 132621-10 | 6' 6"  | 4.9 lbs |
| 132621-11 | 8' 6"  | 5.7 lbs |
| 132621-13 | 10' 6" | 6.4 lbs |
| 132621-4  | 12' 6" | 7.1 lbs |

**Telescoping Clamp-All Sticks**

| Catalog#  | Length                              | Weight |
|-----------|-------------------------------------|--------|
| C403-1035 | 5' 6 3/4", 6' 9 1/2", 8'            | 6 lb   |
| C403-1036 | 8'6 3/4", 10'4 1/2", 12'2 1/4", 14' | 8 lb   |

**Live-Line Work Minimum Approach Distances**

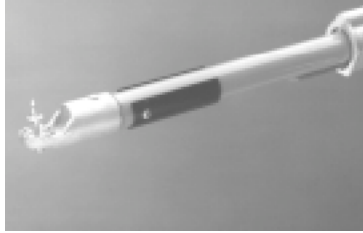
| Nominal<br>Voltage in<br>kV Phase to<br>Phase | Distances                |      |                         |      |
|---|--------------------------|------|-------------------------|------|
|   | Phase-to-ground Exposure |      | Phase-to-phase Exposure |      |
|   | (ft. -in.)               | (m)  | (ft. - in.)             | (m)  |
| 0.05 to 1.0                                   | *                        | *    | *                       | *    |
| 1.1 to 15.0                                   | 2-1                      | 0.64 | 2-2                     | 0.66 |
| 15.1 to 36.0                                  | 2-4                      | 0.72 | 2-7                     | 0.77 |
| 36.1 to 46.0                                  | 2-7                      | 0.77 | 2-10                    | 0.85 |
| 46.1 to 72.5                                  | 3-0                      | 0.90 | 3-6                     | 1.05 |
| 72.6 to 121                                   | 3-2                      | 0.95 | 4-3                     | 1.29 |
| 138 to 145                                    | 3-7                      | 1.09 | 4-11                    | 1.50 |
| 161 to 169                                    | 4-0                      | 1.22 | 5-8                     | 1.71 |
| 230 to 242                                    | 5-3                      | 1.59 | 7-6                     | 2.27 |
| 345 to 362                                    | 8-6                      | 2.59 | 12-6                    | 3.80 |
| 500 to 550                                    | 11-3                     | 3.42 | 18-1                    | 5.50 |
| 765 to 800                                    | 14-11                    | 4.53 | 26-0                    | 7.91 |
| *Avoid Contact                                |                          |      |                         |      |

Distances agree with OSHA guidelines in Table R-6 of the federal register, published 1/31/94. The clear live-line tool distance shall equal or exceed the values for the indicated voltage ranges.

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www.Brenco-Inc.com**



**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. Storage bags are available for all of these types of shotguns. You can also get a universal adapter installed on the handle side of the shotgun, as seen below.



**Folding Style Shotgun**

| Catalog # | Extended Length | Weight   |
|-----------|-----------------|----------|
| C403-0296 | 6'7"            | 8 lb.    |
| C403-0297 | 8'6"            | 9 lb     |
| C403-0298 | 10'6"           | 10 lb.   |
| C403-0299 | 12'6"           | 10.5 lb. |
| C403-0342 | 14'6"           | 11 lb.   |
| C403-0343 | 16'6"           | 11.5 lb. |

**Grip-All Extension**



**C403-0377** 4' Length Extension  
**C403-0378** 6' Length Extension

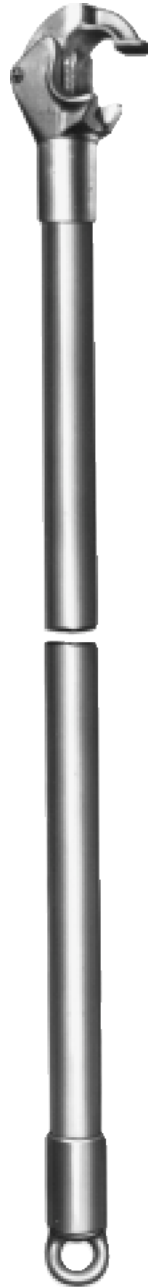


**Grip-All Clampstick Assist Ring**  
 Assist Ring halves assemble simply by threaded fasteners, Keyhole shape for operating rod permits clampstick to function as usual.

**E403-2543**

**Conductor Support Equipment**

**Wire Tongs**



**Wire Tongs** have many applications for moving and holding live conductors clear of the working area, for flat crossarm and/or ridge pin-construction, on horizontal post insulator structures, all types of suspension insulator lines, as auxiliary arm braces, and EHV construction for brace pole or ladder positioning guides.

A whole family of clamps, attachments, saddles and lever lifts allow the wire tongs to be adapted specifically to the mechanical requirements of various maintenance jobs.

Wire Tongs are made with Epoxiglas poles. The castings are made of heat treated aluminum alloy, separated by bronze wear rings.

The wide range jaws on the head can be clamped tightly on the conductor by turning the stick from a position beyond the minimum working clearances. A large head is available on two sizes of tongs where extremely large conductors are encountered.



**H4645-8**



| Cat #     | Pole Dia. & Length   | Weight    |
|-----------|----------------------|-----------|
| H4645-8   | 1 1/2" x 8'          | 7 lb      |
| H4645-10  | 1 1/2" x 10'         | 8 lb      |
| H4646-8   | 2" x 8'              | 11 lb     |
| H4646-10  | 2" x 10'             | 12 lb     |
| H4646-12  | 2" x 12'             | 14 lb     |
| H4647-10  | 2 1/2" x 10'         | 16 1/2 lb |
| H4647-12  | 2 1/2" x 12'         | 18 1/2 lb |
| H4647-14  | 2 1/2" x 14'         | 20 1/2 lb |
| H4647-16  | Spliced 2 1/2" x 16' | 28 lb     |
| C400-0171 | 3" x 12'             | 30 lb     |
| C400-0172 | 3" x 14'             | 35 lb     |
| H4677-12* | 2 1/2" x 12'         | 23 lb     |
| H4677-14* | 2 1/2" x 14'         | 25 lb     |

\*Wire size capacity is 1.5" - 2.88". All others are 0.16" - 2.25"



Wire Tong Swivel  
**M4745** Size 2"  
**M4745-1** Size 2 1/2"



Wire Tong Saddle  
**M4740-10W**



Wire Tong Saddle  
**M4740-18W**



Wire Tong Saddle  
**M4740-5W**

### Wire-Tong Accessories



**M4740-14** Wire-Tong Saddle Clevis



Wire-Tong Pole Clevis  
**M1728-5** Size 2 1/2"  
**C400-0345** Size 3"



Wire Tong Band  
**M1729-3** Size 1 1/2"  
**M1729** Size 2"  
**M1729-1** Size 2 1/2"  
**M1729-2** Size 3"



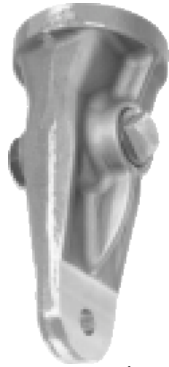
Wire Tong Blocks Clamp  
**M4743**

| Cat. #    | Description                                 |
|-----------|---|
| M4740-3W  | Saddle and Tightener and 1 1/2" Clamp       |
| M4740-4W  | Saddle and Tightener and 2" Clamp           |
| M4740-5W  | Saddle and Tightener and 2 1/2" Clamp       |
| M4740-9W  | Saddle and Tightener and 3" Clamp           |
| M4740-10W | Saddle and Tightener less Clamp             |
| M4740-15W | Saddle and Wheel Tightener and Clevis       |
| M4740-16W | Saddle, Tightener, 1 1/2" Clamp & Extension |
| M4740-17W | Saddle, Tightener 2" Clamp & Extension      |
| M4740-18W | Saddle, Tightener 2 1/2" Clamp & Extentsion |
| M4740-19W | Saddle, Tightener 3" Clamp & Extension      |
| M4740-20W | Saddle, Tightener, Extension less Clamp     |
| C400-0073 | Wire Tong Saddle Extension                  |
| M4741-1   | 1 1/2" Pole Clamp only                      |
| M4741-2   | 2" Pole Clamp only                          |
| M4741-3   | 2 1/2" Pole Clamp only                      |
| M4741-5   | 3" Pole Clamp only                          |





Pole Clamp **M4741-2**



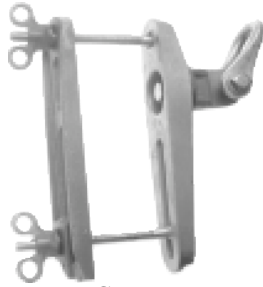
Extension  
**C400-0073**



Wheel Tightner Assy. (36" Chain) **M1848W**  
**M1847-3** 36" Chain Extension  
**M1847-4** 48" Chain Extension  
**M1847-6** 72" Chain Extension  
**70358** Chain Tightner Only



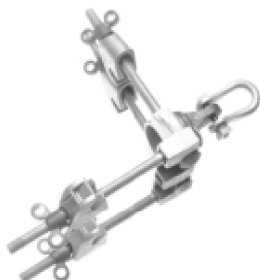
18" Chain Extension **M1847**



Crossarm Type  
Saddle  
**M4744**



Rope Snubbing Bracket  
**M1846W**



Tower Type Saddle  
**M4742**



Lever-Lift  
Wire Tong  
Support  
**M4760W**  
Single  
**M1760-W**  
Double  
**M4760-2**  
Adapter



Epoxiglas  
**C400-1016**



Extension Arm

| Cat #     | Dia. & Length | No. of Wire Holders |
|-----------|---------------|---------------------|
| H4800-60  | 2 1/2" x 5'   | 1                   |
| H4800-72  | 2 1/2" x 6'   | 2                   |
| C400-1310 | 3" x 6'       | 2                   |
| T403-2417 | 2 1/2" x 6'   | 2                   |

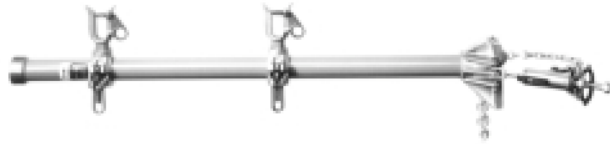


Wire Support  
w/Insulator

For 34.5 kV or when the tool is left overnight, an **M4805-7** Insulator should be installed



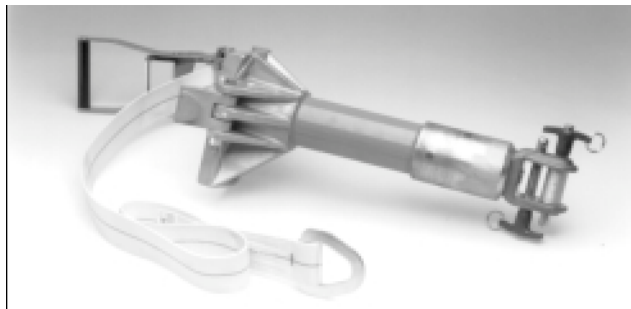
**H4809W** - Temp Conductor Support Single Wire Holder



**C400-1509** (48" Long Epoxiglas Arm)  
Items are also available with straps instead of Chain Binders.



Strap Style Binder



Corner Restraint Bracket Tool **T400-2272**

## Transmission Tools



Strain Link Stick **H4715-2**

| Cat #     | Length | Pole Dia. |
|-----------|--------|-----------|
| H4715-2   | 4' 9"  | 1 1/4"    |
| C400-0814 | 7' 3"  | 1 1/4"    |
| C400-0815 | 9' 3"  | 1 1/4"    |
| C400-0816 | 11' 3" | 1 1/4"    |
| C400-0817 | 13' 3" | 1 1/4"    |
| C400-0818 | 15' 3" | 1 1/4"    |
| H4716-1   | 3' 3"  | 1 1/2"    |
| H4716-2   | 4' 9"  | 1 1/2"    |
| H4716-3   | 6' 9"  | 1 1/2"    |
| H4716-4   | 8' 9"  | 1 1/2"    |
| H4716-5   | 10' 9" | 1 1/2"    |
| H4716-6   | 12' 9" | 1 1/2"    |
| H4717     | 5' 0"  | 1 1/2"    |
| H4717-1   | 7' 2"  | 1 1/2"    |
| H4718     | 5' 2"  | 1 1/2"    |
| H4718-1   | 7' 2"  | 1 1/2"    |
| H4718-2   | 9' 2"  | 1 1/2"    |
| H4718-3   | 11' 2" | 1 1/2"    |
| H4718-4   | 13' 2" | 1 1/2"    |



Spiral Link Stick

| Cat. #    | Overall Length | Pole Dia. & Length | Max Conductor Size |
|-----------|----------------|--------------------|--------------------|
| H4722     | 27 1/2"        | 1 1/4" x 12"       | 1510.5 MCM ACSR    |
| C400-0812 | 57 1/2"        | 1 1/4" x 42"       | 1510.5 MCM ACSR    |



Roller Link Stick

| Cat. #  | Overall Length | Pole Dia. & Length | Max Conductor Size |
|---------|----------------|--------------------|--------------------|
| H4714-4 | 58"            | 1 1/4" x 4'        | 605 MCM ACSR       |
| H4714-6 | 82"            | 1 1/4" x 6'        | 605 MCM ACSR       |



Adjustable Strain Pole

| Cat #     | Description     | Max Voltage | Length  |
|-----------|-----------------|-------------|---------|
| C401-2144 | 6' Strain Pole  | 72.5 kV     | 7' 8"   |
| C401-2145 | 7' Strain Pole  | 169 kV      | 8' 8"   |
| C401-2146 | 8' Strain Pole  | 242 kV      | 9' 11"  |
| C401-2147 | 10' Strain Pole | 302 kV      | 11' 8"  |
| C401-2215 | 12' Strain Pole | 362 kV      | 13' 2"  |
| C401-2148 | 14' Strain Pole | 552 kV      | 15' 11" |
| C401-2149 | 18' Strain Pole | 765 kV      | 19' 8"  |

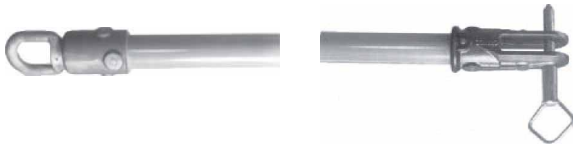


12" Strain Jack **E401-1998** Included with each Strain Pole Listed above

| Cat #     | Description                 |
|-----------|-----------------------------|
| E401-0138 | 2" Adjustable Pole Clamp    |
| E401-1998 | 12" Acme-thread Strain Jack |
| V401-0157 | 24" Acme-thread Strain Jack |
| V401-0158 | 36" Acme-thread Strain Jack |
| E401-1510 | Steel Through Pin           |
| P059738P  | Klik Pin                    |

## Strain Poles

For Bundle Conductor Yoke Plates



H1949-113



C400-0612

Strain Poles for conductor yoke plates accommodate a wide range of yoke plate designs and hole spacings. Both Strain Poles, of 2" diameter Epoxiglas construction, offer 12,000 pounds maximum load capacity with a 1" wide clevis for aluminum conductor yoke plates. Commonly used in dead end rigging, for "V" strings and restrained angles, poles offer two clevis lengths and overall lengths.

## INSULATOR CRADLES

Three basic types of Insulator Cradles are available for various insulator changeout requirements:

### Transmission Insulator Cradle

Designed to be used on 69kV to 115kV dead end or suspension strings supported by a pair of wire tongs or link sticks.



| Catalog No. | Overall Length | Recommended Capacity      | Approx. Weight      |
|-------------|----------------|---------------------------|---------------------|
| H1840-6     | 6-ft. (180cm)  | 10 10" (250mm) Insulators | 19.75 lb./8.887 kg. |
| H1840-8     | 8-ft. (240cm)  | 14 10" (250mm) Insulators | 24 lb./11.262 kg.   |
| H1840-10    | 10-ft. (300cm) | 18 10" (250mm) Insulators | 27 lb./13.837 kg.   |

## EHV Trough-Design Insulator Cradle



This cradle is used for making insulator changes on lines energized up to and including 500kV. It is used to lower insulator strings on dead end and swinging-corner construction, and to raise the insulators on long suspension units.

Heat-treated aluminum castings, durable Epoxiglas poles, and steel hardware combine to make the cradle a strong and dependable piece of equipment. The aluminum castings are a weight-saving feature providing ease in handling.

The insulator-laden cradle can be raised or lowered for easier insulator changes using a bail attached to a link stick. Hooks are furnished for installing and removing the dead end tool from insulator yokes.

| Catalog No. | Description              | Max. 10" Insulator Capacity | Weight           |
|-------------|--------------------------|-----------------------------|------------------|
| H1950-9     | 9' Insulator Cradle      | 19                          | 23 lb./10.45 kg. |
| C401-0015   | 11'4" Insulator Cradle   | 25                          | 27 lb./12.27 kg. |
| H1950-90    | Insulator Cradle Carrier | ---                         | 25 lb./11 kg.    |



**Insulator Cradle Carrier**  
H1950-90

The Insulator Cradle Carrier utilizes a spiral link stick as a support member for the three hook and clamp assemblies and has a 2 1/2" Epoxiglas insulated ridgepole. The maximum load is 500 pounds.

## EHV Side-Opening Insulator Cradle



Designed specifically for selective removal of any one string in dead end bundles, double, triple, or quad, the Side-Open Cradle eliminates the need of removing top strings in the bundle to get at the lower string.

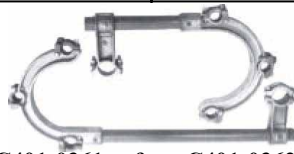
Available in 9', 13', and 16' lengths, cradles are shipped complete with bridle for attaching to Swivel Boom, an Insulator Retaining Plate and either 15-31-inch Hook Assemblies. The 15-inch assembly is used for single or double dead ends while the 31-inch Assembly is for removal of the bottom strings in 4-bundle dead ends, and for double "V"-string assemblies.

The 9-foot Cradle is rated 500 pounds maximum load, and the 13 and 16-foot Cradles are rated at 1000 pounds maximum load.

| Catalog No. | Description                   | Weight             |
|-------------|-------------------------------|--------------------|
| C401-0358   | 9' Cradle, 15" Support Hooks  | 93 lb./41.9 kg.    |
| C401-0359   | 9' Cradle, 31" Support Hooks  | 97.5 lb./43.9 kg.  |
| C401-0356   | 13' Cradle, 15" Support Hooks | 119 lb./53.6 kg.   |
| C401-0357   | 13' Cradle, 31" Support Hooks | 123.5 lb./55.6kg.  |
| C401-0354   | 16' Cradle, 15" Support Hooks | 125 lb./56.7 kg.   |
| C401-0355   | 16' Cradle, 31" Support Hooks | 130.5 lb./58.7 kg. |
| C401-0361   | 15" Support Hooks, one only   | 10 lb./4.5 kg.     |
| C401-0362   | 31" Support Hooks, one only   | 11.5 lb./5.2 kg.   |
| C401-0455   | Insulator Retaining Plate     | 7.5 lb./3.4 kg.    |



C401-0455



C401-0361 & C401-0362

## J-Hook Assembly



C402-0790

The J-Hook unit can also be used for removal of dead end insulator strings. The plastisol covered steel hook swivels on the end of a 2"x36" Epoxiglas pole and has a 2.5" diameter pole clamp at the top end, allowing horizontal adjustment on an Epoxiglas ridgepole to varying lengths of insulator strings. This hook assembly is particularly useful in removing the bottom string in a 3-bundle insulator string.

## Structure Yokes

### Tower Yoke - H4783-22

The Tower Yoke fits over the tower arm, serving as a support for the Chance Strain Poles to relieve tension on the suspension insulator string through the "hot end" yoke and the conductor yoke plate.



**Capacity 12,000 lb. Weight 42.5 lb./19.1 kg.**



### H-Frame Yoke - C400-0219

The H-Frame Crossarm Yoke is similar to the Tower Yoke in design and application. The two clamp bolts which secure the yoke to the double plank crossarms may be adjusted to three center-to-center positions to fit various arm sizes; vertical take up on the crossarm is from 9"-12". The swiveling trunnion brackets are located 26" center-to-center.

**Capacity 12,000 lb. Weight 41 lb./18.5 kg.**

### Steel Arm Yoke - C400-0445



Designed for use on the arm of a steel pole, the Steel Arm Yoke mounts over a .75" - thick end plate. Swivel castings in the end of the yoke assure proper alignment of the Chance Strain Poles to the conductor-end yoke. The load rating is dependent upon the angle of the end plate on the arm; 45 degrees is maximum angle allowed with a rating of 9,000 pounds. In-line loading of the yoke permits a rating of 15,000 pounds. Bronze pins place the strain poles 21 inches apart, center-to-center. A lifting eye is cast into the top of the yoke for the purpose of landing the yoke upon the end plate of the pole arm.

**Capacity 15,000 lb. Weight 14 3/4 lb./6.6 kg.**

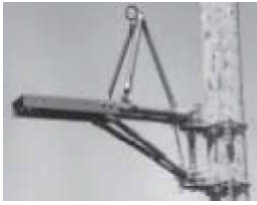
### Steel Arm Bracket - T400-0838

The steel arm bracket is used with the C400-0445 (steel arm yoke) where the steel arm is not equipped with an end plate. The bracket is made of heat treated aluminum and is complete with a wheel binder. The steel arm bracket serves the same purpose as an end plate to support the yoke assembly.



**Weight 15 lb./6.8 kg.**

## Insulated Platforms



To provide convenient workstations for rubber-glove work on energized lines, these platforms quickly secure to the pole with either of two mounts:

- \* **Max. Load - 500 lb.**
- \* **Non-skid surface.**

1. Fixed mount, for jobs that do not require frequent platform relocation, comes as part of each basic platform and includes a chain binder and wheel tightener.
2. Pivot mount, optional for easy positioning to access jobs, permits worker to swivel the mounted platform on its horizontal plane.

| Catalog No. | Description           | Weight          |
|-------------|-----------------------|-----------------|
| C402-1042   | 4' Insulated Platform | 49 lb./22 kg.   |
| C402-1043   | 6' Insulated Platform | 56 lb./25.2 kg. |
| C402-1079   | 8' Insulated Platform | 60 lb./27 kg.   |

## Standard Aerial Platforms

These platforms are furnished with a Fixed Pole Mount for maintenance jobs that do not require frequent platform relocation. Pivot Mounts allow the platform to be swiveled on its horizontal plane to different positions for a certain operations.



\* **Non-skid surface. Max. Load - 500 lb.**

| Catalog No. | Description           | Weight          |
|-------------|-----------------------|-----------------|
| H4964-42W   | 42" Standard Platform | 40 lb./18 kg.   |
| H4964-4W    | 4' Standard Platform  | 49 lb./22 kg.   |
| H4964-6W    | 6' Standard Platform  | 56 lb./25.2 kg. |
| H4964-8W    | 8' Standard Platform  | 71 lb./32 kg.   |

## Swivel Hook Ladders

Hook Ladders have many applications in high voltage maintenance, making line repairs possible at otherwise almost unaccessible places. Two basic styles are available. The Regular Duty Ladders with 2" siderails, for vertical suspension applications. The Heavy Duty Ladders, with 2.5" siderails are recommended where men are required to work from the ladder in a tagged out position.

All hooks are formed from 1" diameter tempered steel and can be swiveled to best fit various angles on the structure. Ladders are normally furnished with 8" diameter hooks but 14" or 18" diameters are available for other structure applications. Safety chains clip to the looks to secure the ladder. Rung material for both rated ladders is 1.25", Epoxiglas, sand coated.



### Regular-Duty Hook Ladders

| Catalog No. | Overall Length | Distance Between Side Rails |
|-------------|----------------|-----------------------------|
| H4904-8     | 8'             | 14.5"                       |
| H4904-10    | 10'            | 14.5"                       |
| H4904-12    | 12'            | 14.5"                       |
| H4904-14    | 14'            | 14.5"                       |
| H4904-16    | 16'            | 14.5"                       |

### Heavy-Duty Hook Ladders

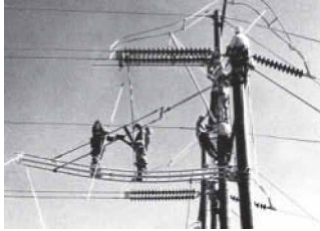
| Catalog No. | Overall Length | Distance Between Side Rails |
|-------------|----------------|-----------------------------|
| H4905-8     | 8'             | 14.5"                       |
| H4905-10    | 10'            | 14.5"                       |
| H4905-12    | 12'            | 14.5"                       |
| H4905-14    | 14'            | 14.5"                       |
| H4905-16    | 16'            | 14.5"                       |
| H4905-18    | 18'            | 14.5"                       |
| H4905-20    | 20'            | 14.5"                       |

\* Add "A" to Catalog No. for 14" hooks.

\* Add "B" to Catalog No. for 18" hooks.



## Three Rail Ladder



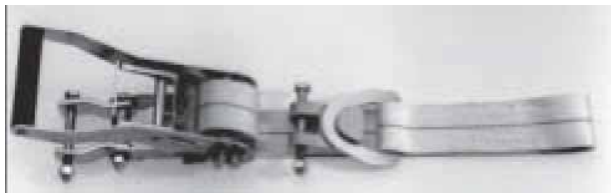
The greater mechanical strength, and less deflection of the Three Rail Ladder increases the efficiency of line workers when working in a tagged-out position.

The third rail also provides for a convenient, centered, safety-belt-tie, and divides the ladder rung into natural positions for each foot placement.

Specifications include: 2.5" center rail, capped on both ends; 2" side rails with 8" swivel hooks on the top and caps on the bottom end of the rail, 1.25" sanded rungs; steel tie rods top and bottom and pinned sleeves on outside rails for spliced ladders with a 15.5" center. Both straight and spliced ladder units are available.

| Catalog No. | Description         | Weight           |
|-------------|---------------------|------------------|
| C402-0119   | 20' Straight Ladder | 100 lb./45.0 kg. |
| C402-0512   | 8' Bottom Section   | 43 lb./19.4 kg.  |
| C402-0513   | 12' Bottom Section  | 52 lb./23.4 kg.  |
| C402-0514   | 12' Top Section     | 62 lb./27.9 kg.  |

## Strap Binder Kit



| Catalog No. | Description                | Weight        |
|-------------|----------------------------|---------------|
| T400-2007   | D-Buckle Strap Binder only | 4.5 lb./2 kg. |

## Chain Binder Type Transformer Gins



### C400-00315 5" Base & C400-0090 Standard

A versatile tool 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 a part of each unit. Both models have 2000 pound maximum ratings, including hand pull force. With a single hoist line through a pulley on the gin and a sheave near the base of the structure, the lift load is 900 pounds (lift load plus the pull load equals the capacity). Using 4-4 blocks, the lift load can be 1,400 pounds. A swivel-hook block should always be used in the eye of the gin, and a sheave or a capstan near the bottom of the structure should be used to thread the handline through. Gins are not intended for applications involving side pull on the hoist line, or with the lift load in a tagged out position. Pole length: 26".

| Catalog No. | Description      | Weight          |
|-------------|------------------|-----------------|
| C400-0090   | Standard Base    | 15 lb./6.75 kg. |
| C400-0315   | 5" Extended Base | 30 lb./9 kg.    |

## Crossarm Gin

Yoke casting fits over distribution crossarms, so this Crossarm Gin can be used with rope blocks or handline to life conductors from their insulators. A removable cadmium-plated steel pin provides adjustment for crossarm from 3.5" x 4.5" up to 4.75" x 5.75". Convertible model fits up to 6" x 6" crossarm.

At a 30 degree max. angle, 44" gin has rated working load of 750 lb.; 56" gin, 500 lb.



| Catalog No. | Description         | Weight          |
|-------------|---------------------|-----------------|
| H20         | 44" Crossarm Gin    | 10 lb./4.5 kg.  |
| T400-0870   | 56" Crossarm Gin    | 12 lb./ 5.5 kg. |
| T400-1708   | Convertible 44" Gin | 10 lb./4.5 kg.  |