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CATALOG



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**ADDRESS:**  
319 WEST MAIN  
JACKSON, MO 63755 1



# PRE-ASSEMBLED Welding Whips & Ground Leads



## AF2102

### Pre-Assembled Welding Whip Leads

## AF25101



AF-2 Electrode Holder/10 ft #2 cable/LC-1040 connector



AF-25 Electrode Holder/10 ft #1 cable/LC-1040 connector

| MODEL NO. | ITEM NO. | DESCRIPTION                                      |
|-----------|----------|--------------------------------------------------|
| AF2102    | 0999091  | AF-2/10' of #2 cable & LC-1040 whip connector    |
| AF25101   | 0999094  | AF-25/10' of #1 cable & LC-1040 whip connector   |
| LPG200102 | 099880   | LPG-200/10' of #2 cable & LC-1040 whip connector |
| LPG300101 | 0992403  | LPG-300/10' of #1 cable & LC-1040 whip connector |

## LPG200102

### Pre-Assembled Ground Leads

## LPG300101



LPG-200 Ground clamp/10 ft #2 cable/LC-1040 connector



LPG-300 Ground clamp/10 ft #1 cable/LC-1040 connector

**\* Other lengths and combinations available.**



# QUALITY ELECTRODE HOLDERS

*Light, Medium, and Heavy Duty Models*

**"AF" Series**



**"HT" Series**



|             | Model | Item Code No. | Display Packaged Item Code No. | Amp Capacity | Cable Capacity           | Electrodes Up To | Length       | Weight        |
|-------------|-------|---------------|--------------------------------|--------------|--------------------------|------------------|--------------|---------------|
| Light Duty  | AF-2  | 01020         | 01020DP                        | 200-250      | 1/0 (50mm <sup>2</sup> ) | 5/32" (3.97mm)   | 8¼" (210mm)  | 12 oz. (345g) |
| Medium Duty | AF-25 | 01030         | 01030DP                        | 250-300      | 2/0 (70mm <sup>2</sup> ) | 3/16" (4.75mm)   | 8½" (216mm)  | 16 oz. (450g) |
|             | AF-3  | 01040         | -                              | 300-350      | 2/0 (70mm <sup>2</sup> ) | 1/4" (6.35mm)    | 10" (254mm)  | 21 oz. (600g) |
| Heavy Duty  | AF-35 | 01050         | -                              | 350-400      | 3/0 (70mm <sup>2</sup> ) | 1/4" (6.35mm)    | 10" (254mm)  | 24 oz. (680g) |
|             | AF-50 | 01060         | -                              | 450-500      | 4/0 (95mm <sup>2</sup> ) | 3/8" (9.53mm)    | 10½" (267mm) | 31 oz. (880g) |
| Light Duty  | HT-2  | 01320         | 01320DP                        | 200-250      | 1/0 (50mm <sup>2</sup> ) | 5/32" (3.97mm)   | 9" (229mm)   | 13 oz. (360g) |
| Medium Duty | HT-25 | 01330         | 01330DP                        | 250-300      | 2/0 (70mm <sup>2</sup> ) | 3/16" (4.75mm)   | 9¾" (248mm)  | 19 oz. (540g) |
|             | HT-3  | 01340         | -                              | 300-350      | 2/0 (70mm <sup>2</sup> ) | 1/4" (6.35mm)    | 10½" (267mm) | 23 oz. (650g) |
| Heavy Duty  | HT-35 | 01350         | -                              | 350-400      | 3/0 (70mm <sup>2</sup> ) | 1/4" (6.35mm)    | 10½" (267mm) | 24 oz. (680g) |
|             | HT-50 | 01360         | -                              | 450-500      | 4/0 (95mm <sup>2</sup> ) | 3/8" (9.53mm)    | 10½" (267mm) | 31 oz. (880g) |

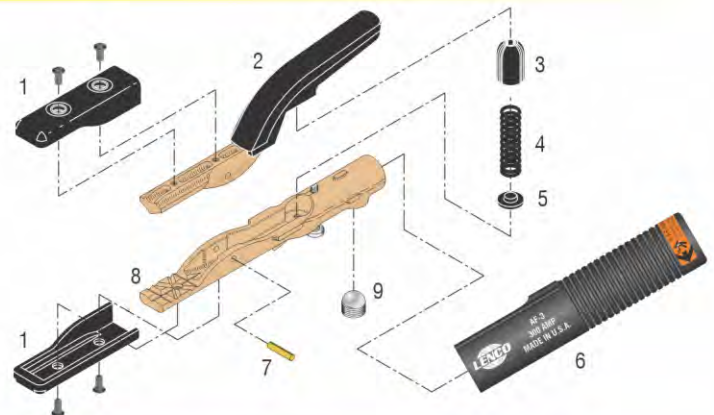
Holders may be custom imprinted with company name. (Contact **LENCO** for details.)

## Holder Replacement Parts

Replacement parts for all LENCO electrode holders are available and easily installed. Select the parts you need from the illustration. Part names are shown below and the part number is under the holder number in the same column.

### ELECTRODE HOLDER

1. Tip Insulator w/Screws
2. Upper Body Tong, Insulated
3. Spring Cup Insulator
4. Spring Set (with items 3 & 5)
5. Spring Flat Insulator
6. Molded Handle
7. Hinge Pin
8. Lower Body Tong
9. Oval-Point Screw



## "AF"/"HT" - Series

|          |                                                       | Electrode Holder Model and Item Code No. |       |       |       |       |       |       |       |       |       |
|----------|-------------------------------------------------------|------------------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Item No. | Description                                           | AF-2                                     | HT-2  | AF-25 | HT-25 | AF-3  | HT-3  | AF-35 | HT-35 | AF-50 | HT-50 |
| 1        | Tip Insulator, w/Screw                                | 01325                                    | 01325 | 01325 | 01325 | 01335 | 01335 | 01335 | 01335 | 01335 | 01335 |
| 2        | Upper Body Tong                                       | 01021                                    | 01321 | 01031 | 01331 | 01051 | 01341 | 01051 | 01341 | 01051 | 01341 |
| 3        | Spring Cup Insulator                                  | 01027                                    | 01071 | 01071 | 01337 | 01071 | 01337 | 01071 | 01337 | 01071 | 01337 |
| 4        | Spring Set, w/Insulators (Lexan Cup & Flat Insulator) | 01026                                    | 01324 | 01034 | 01334 | 01054 | 01334 | 01054 | 01334 | 01069 | 01364 |
| 5        | Spring Flat Insulator                                 |                                          |       | 01070 | 01070 | 01070 | 01070 | 01070 | 01070 | 01070 | 01070 |
| 6        | Molded Handle                                         | 01023                                    | 01323 | 01033 | 01333 | 01042 | 01343 | 01053 | 01353 | 01066 | 01363 |
| 7        | Hinge Pin                                             | 01214                                    | 01214 | 01214 | 01214 | 01223 | 01223 | 01223 | 01223 | 01223 | 01223 |
| 8        | Lower Body Tong                                       | 01022                                    | 01022 | 01032 | 01032 | 01041 | 01041 | 01052 | 01052 | 01062 | 01062 |
| 9        | Oval-Point Screw                                      | 01025                                    | 01025 | 01025 | 01025 | 01225 | 01225 | 01068 | 01068 | 01068 | 01068 |
|          | Tip Insulator Screws, doz.                            | 01065                                    | 01065 | 01065 | 01065 | 01065 | 01065 | 01065 | 01065 | 01065 | 01065 |



# FULLY INSULATED DURO HOLDERS

*Light, Medium, and Heavy Duty Models*

## DEPENDABLE ELECTRODE HOLDERS

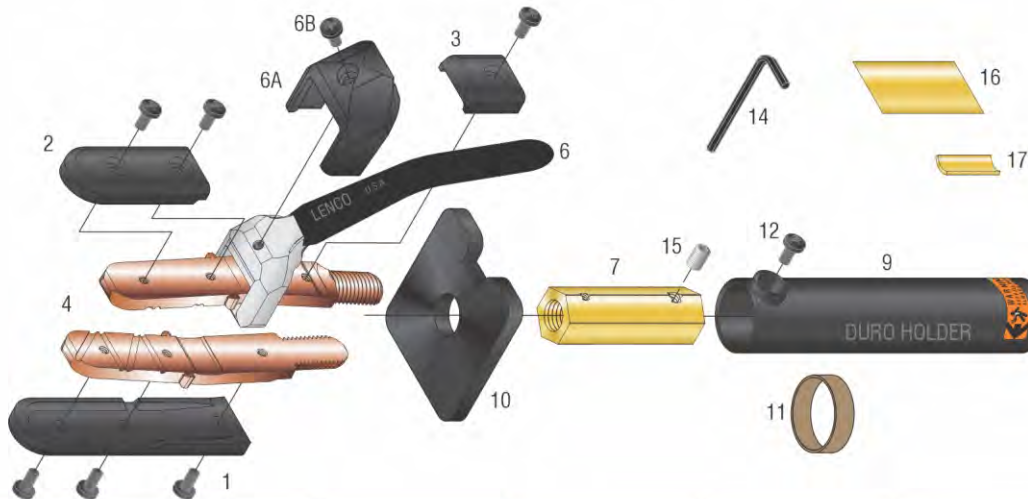
Duro has produced dependable and efficient holders since 1932. They are lightweight and perfectly balanced to make working less awkward no matter where the weld must be made. The jaws are made with a unique internal tension design which is extremely durable. The positive energy saving grip of the jaws holds large or small electrodes equally well. All parts are easily replaced using a screwdriver and wrench. Check these features:



**“This is the Original Duro Product.”**

- Unique internal tension design lasts longer
- Positive grip jaws hold small or large electrodes
- Easily replace parts quickly using only screwdriver and wrench
- No coil spring to lose its tension
- Safe, square guard protects hands from heat; prevents rolling and grounding when set down
- Screw-in type jaws replaced with only a wrench
- Cool operating and cool handling

|             | Model | Item Code No. | Amp Capacity | Cable Capacity           | Electrodes Up To | Length          | Weight        |
|-------------|-------|---------------|--------------|--------------------------|------------------|-----------------|---------------|
| Light Duty  | 250-I | 016250        | 250          | 1/0 (50mm <sup>2</sup> ) | 3/16" (4.75mm)   | 9-1/2" (241mm)  | 13 oz. (360g) |
| Medium Duty | 300-I | 016300        | 300          | 2/0 (70mm <sup>2</sup> ) | 1/4" (6.3mm)     | 11-5/8" (295mm) | 20 oz. (570g) |
| Heavy Duty  | 400-I | 016400        | 400          | 3/0 (70mm <sup>2</sup> ) | 5/16" (7.9mm)    | 12-1/4" (311mm) | 24 oz. (677g) |
|             | 600-I | 016600        | 600          | 4/0 (95mm <sup>2</sup> ) | 3/8" (9.5mm)     | 13-1/4" (337mm) | 36 oz. (1kg)  |



| DESCRIPTION                        | ITEM NO. | #250-I      | #300-I      | #400-I     | #600-I     |
|------------------------------------|----------|-------------|-------------|------------|------------|
| Bottom Jaw Insulator               | 1        | 016251      | 016301      | 016401     | 016401     |
| Top Jaw Insulator - Large          | 2        | 016252      | 016302      | 016402     | 016402     |
| Top Jaw Insulator - Small          | 3        | 016253      | 016303      | 016403     | 016403     |
| Jaws - Plain (upper & lower)       | 4        | 016254      | 016304      | 016404     | 016404     |
| Jaws with Insulators               |          | 016255      | 016305      | 016405     | 016405     |
| Trigger - Plain                    | 6        | 016256      | 016256      | 016256     | 016256     |
| Trigger Insulator Cover            | 6A       | 016256A     | 016256A     | 016256A    | 016256A    |
| Trigger Insulator Screw - 6 pcs    | 6B       | 016256B-6   | 016256B-6   | 016256B-6  | 016256B-6  |
| Brass Core w/Hardware Kit          | 7        | 016257      | 016307      | 016407     | 016607     |
| Trigger with Insulator             |          | 016258      | 016258      | 016258     | 016258     |
| Handle                             | 9        | 016259      | 016309      | 016409     | 016609     |
| Guard                              | 10       | 0162510     | 016310      | 016410     | 016410     |
| Rubber Insulator for Handle Screw  | 11       | N/A         | 016311      | 016311     | 016311     |
| Handle Screw                       | 12       | 0162512     | 016312      | 016312     | 016312     |
| Screw for Jaw Insulation - 6 pcs   |          | 016256B-6   | 016256B-6   | 016413-6   | 016413-6   |
| Screw for Jaw Insulation - 100 pcs |          | 016256B-100 | 016256B-100 | 016413-100 | 016413-100 |
| Allen Wrench                       | 14       | 0162514     | 0162514     | 0162514    | 016614     |
| Set Screw for Core                 | 15       | 0162515     | 0162515     | 0162515    | 016615     |
| Requires 2 for 400 & 600           |          |             |             | Uses 2     | Uses 2     |
| Brass Foil                         | 16       | 0162516     | 0162516     | 0162516    | 0162516    |
| Curved Brass Piece                 | 17       | 0162517     | 0162517     | 0162517    | 0162517    |



# QUALITY ELECTRODE HOLDERS

## "Twister" and Isolator Electrode Holder



The LT-250/400 design minimizes exposed screws, internal metal parts or any current carrying members in the holder for added user safety.



|             | Model    | Item Code No. | Amp Capacity | Cable Capacity           | Electrodes Up To | Length           | Weight         |
|-------------|----------|---------------|--------------|--------------------------|------------------|------------------|----------------|
| Medium Duty | LT-250   | 01420         | 250          | 2/0 (70mm <sup>2</sup> ) | 3/16" (4.75mm)   | 8" (203mm)       | 11 oz. (310g)  |
|             | RHA-250* | 01430         | 250          | —                        | 3/16" (4.75mm)   | 3-1/2" (89mm)    | 5.4 oz. (153g) |
| Heavy Duty  | LT-400   | 01410         | 400          | 3/0 (70mm <sup>2</sup> ) | 1/4" (6.35mm)    | 8-15/16" (227mm) | 22 oz. (624g)  |
|             | RHA-400* | 01400         | 400          | —                        | 1/4" (6.35mm)    | 4-1/8" (105mm)   | 9 oz. (255g)   |

\*MODEL RHA-250/400 Replaceable Head Only

Holders may be custom imprinted with company name.

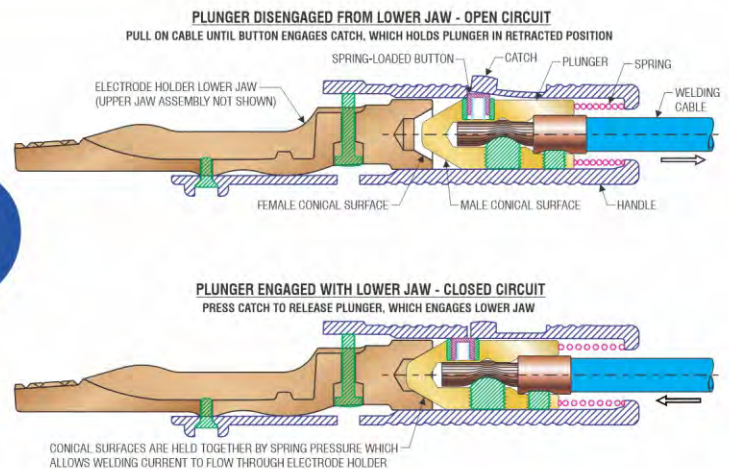
### LT-250/400 Holder Replacement Parts



| Item No. | Description          | LT-250 Item Code No. | LT-400 Item Code No. |
|----------|----------------------|----------------------|----------------------|
| 1.       | Head Insulator       | 01422                | 01472                |
| 2.       | Head Insulator Screw | 01485                | 01485                |
| 3.       | Head Member          | 01427                | 01477                |
| 4.       | Spring Cup           | 01425                | 01284                |
| 5.       | Spring Coil          | 01426                | 01286                |

| Item No. | Description          | LT-250 Item Code No. | LT-400 Item Code No. |
|----------|----------------------|----------------------|----------------------|
| 6.       | Handle               | 01424                | 01474                |
| 7.       | Pressure Pin         | 01423                | 01481                |
| 8.       | Brass Body w/Screws  | 01432                | 01482                |
| 9.       | Pressure Pin Screw   | 01485                | 01485                |
| 10.      | Oval-Point Screw (2) | 01025 (1)            | 01025 (2)            |

### Isolator Holders



| Model  | Item Code No. | Description               |
|--------|---------------|---------------------------|
| IS-25  | 01525         | AF Style Isolator w/cable |
| ISH-25 | 01555         | HT Style Isolator w/cable |

#### FEATURES

- Electrode holder with locking mechanism
- Helps protect user from OCV
- Safely reinsert electrode and position into tight, difficult areas
- Available in AF or HT style holders, designed for 250 amps using 3/16" electrode maximum
- Complete with 12' of No. 2 cable & LC-1040 male connector or optional *Dinse* Style connector.



# GROUND CLAMPS

A good ground connection is just as important in a welding circuit as the holder and the cables. A good ground clamp reduces energy costs, extends cable life, helps produce consistent welds and allows ground location to be easily changed.

## Economy Ground Clamps



**MG-180**



**EG-200**



**EG-300**



**EG-500**

The **Model MG-180** is a molded non-conductive ground clamp with copper jaws.

The **Model EG-200** ground clamp is ideal for light duty welding. May be used for other light duty applications.

The **Model EG-300** ground clamp is ideal for the farm welder or for light shop work.

The **Model EG-500** is excellent for field erection or where clamping to bar stock, piping or various shapes of metal is necessary. The pure copper braided shunt allows both high copper alloy jaws to carry welding current. A rugged, all steel body protects the heavy duty spring.

| Model  | Item Code No. | Amp Capacity                               | Type of Cable Connection  | Weight         | Jaw Opening  |
|--------|---------------|--------------------------------------------|---------------------------|----------------|--------------|
| MG-180 | 02180         | 180                                        | Bolt and Nut with Support | 6.7 oz. (193g) | 2" (51mm)    |
| EG-200 | 02000         | 200                                        | Bolt and Nut with Support | 6 oz. (170g)   | 1½" (38.1mm) |
| EG-300 | 02040         | 300                                        | Bolt and Nut with Support | 11 oz. (310g)  | 2" (51mm)    |
| EG-500 | 02050         | 500                                        | Bolt and Nut with Support | 22 oz. (620g)  | 2" (51mm)    |
| —      | 02055         | Replacement Contact Stud w/Nut - EG-500    |                           | —              | —            |
| —      | 02056         | Replacement Double Hump Jaw w/Nut - EG-500 |                           | —              | —            |

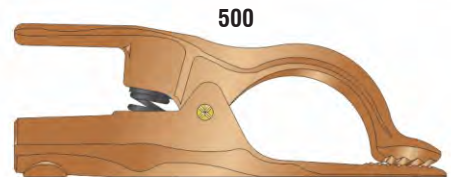
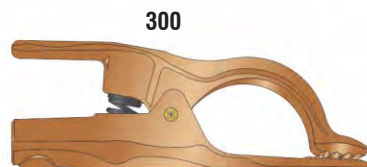
## Quality • High Copper Alloy • Insulated Spring

- Lenco ground clamps have the largest contact area with the work of any clamp on the market. Serrated upper and lower jaws insure maximum bite to the work. A good ground clamp helps assure proper voltage for maximum weld results with all rods.

- Both upper and lower jaws of all three models are made from a high copper alloy assuring excellent current carrying ability. No steel jaws are used. A good ground connection assures better welds.

- A tough, brass hinge pin is durable and allows both jaws to carry current. The enclosed heavy duty spring assures a powerful bite on the work. The insulation on top and bottom provides extended spring life.

- All six of the Lenco ground clamps have the oval-point screw cable connection which is easy to install. No shim stock or pressure plate is needed.



| Model | Item Code No. | Amp Capacity | Cable Capacity                            | Type of Cable Connection    | Weight        | Jaw Opening  |
|-------|---------------|--------------|-------------------------------------------|-----------------------------|---------------|--------------|
| 200   | 02010         | 200          | No.4 thru No.1/0(25-50mm <sup>2</sup> )   | Mechanical Oval-Point Screw | 13 oz. (370g) | 1" (25.4mm)  |
| 300   | 02020         | 300          | No.1/0 thru No.2/0(50-70mm <sup>2</sup> ) | Mechanical Oval-Point Screw | 26 oz. (740g) | 1½" (38.1mm) |
| 500   | 02030         | 500          | No.3/0 thru No.4/0(70-95mm <sup>2</sup> ) | Mechanical Oval-Point Screw | 35 oz. (995g) | 1½" (38.1mm) |



| Model   | Item Code No. | Amp Capacity | Cable Capacity                            | Type of Cable Connection    | Weight        | Jaw Opening  |
|---------|---------------|--------------|-------------------------------------------|-----------------------------|---------------|--------------|
| LPG-200 | 02011         | 200          | No. 4 thru No. 1/0(25-50mm <sup>2</sup> ) | Mechanical Oval-Point Screw | 13 oz. (370g) | 1" (25.4mm)  |
| LPG-300 | 02021         | 300          | No.1/0 thru No.2/0(50-70mm <sup>2</sup> ) | Mechanical Oval-Point Screw | 25 oz. (709g) | 1½" (38.1mm) |
| LPG-500 | 02031         | 500          | No.3/0 thru No.4/0(70-95mm <sup>2</sup> ) | Mechanical Oval-Point Screw | 38 oz. (11kg) | 2" (51mm)    |

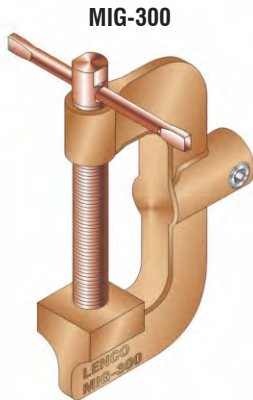


# GROUND CLAMPS

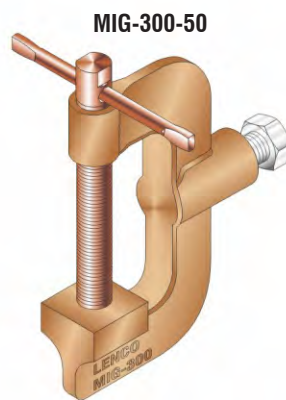
LENCO's **MIG-300/MIG-600** ground clamps are designed especially for the MIG welding process. Their powerful bite allows for low resistance ground connections. They have a full two-inch opening and a copper coated steel pressure screw. The copper coated steel "T" handle makes it easy to apply maximum pressure.

## MIG-300 Ground Clamps

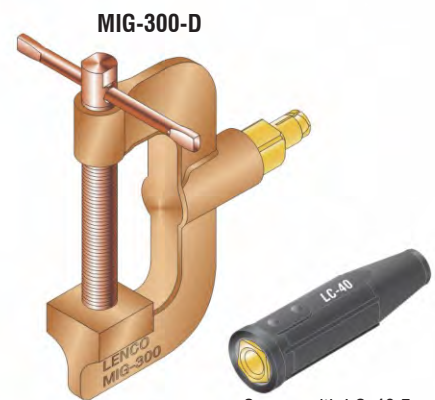
- *Designed Especially for MIG Welding • Reduce Voltage Drop*



MIG-300



MIG-300-50



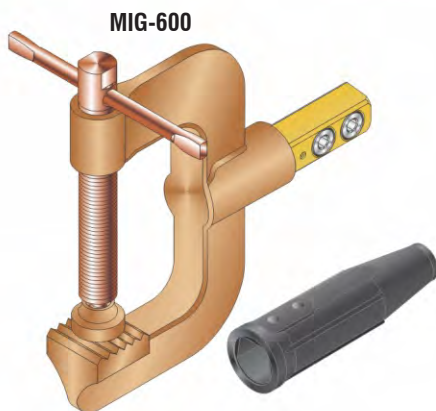
MIG-300-D

Comes with LC-40 Female

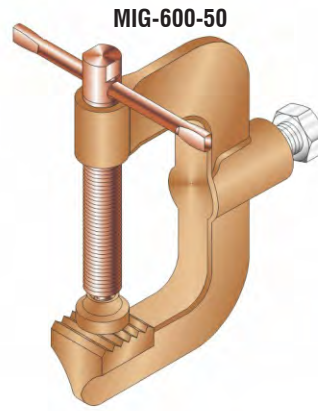
| Model      | Item Code No. | Amp Capacity | Cable Capacity                               | Type of Cable Connection    | Weight             | Jaw Opening | Throat Depth  |
|------------|---------------|--------------|----------------------------------------------|-----------------------------|--------------------|-------------|---------------|
| MIG-300    | 02075         | 300          | No. 1/0 thru No. 2/0 (50-70mm <sup>2</sup> ) | Single Oval-Point Screw     | 1.5 lbs. ( 648.5g) | 2" (51mm)   | 1-3/4" (44mm) |
| MIG-300-50 | 02077         | 300          | Appropriate Size Lugged Cable                | 1/2 - 13                    | 1.5 lbs. ( 648.5g) | 2" (51mm)   | 1-3/4" (44mm) |
| MIG-300-D  | 02082         | 300          | No. 1/0 thru No. 2/0 (50-70mm <sup>2</sup> ) | Detachable Cable Connection | 2 lbs. ( 932.7g)   | 2" (51mm)   | 1-3/4" (44mm) |

## MIG-600 Ground Clamps

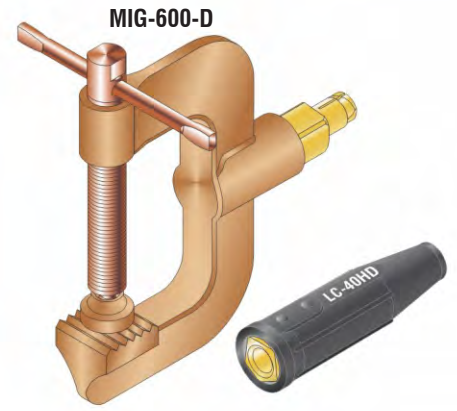
- *Designed Especially for MIG Welding • Reduce Voltage Drop*



MIG-600



MIG-600-50



MIG-600-D

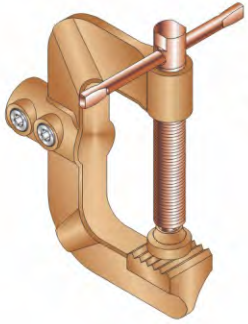
Comes with LC-40HD Female

| Model      | Item Code No. | Amp Capacity | Cable Capacity                              | Type of Cable Connection    | Weight           | Jaw Opening | Throat Depth  |
|------------|---------------|--------------|---------------------------------------------|-----------------------------|------------------|-------------|---------------|
| MIG-600    | 02070         | 600          | No.3/0 thru No. 4/0 (70-95mm <sup>2</sup> ) | Two Oval-Point Screws       | 3.5 lbs. (1.6kg) | 2" (51mm)   | 2-1/8" (54mm) |
| MIG-600-50 | 02071         | 600          | Appropriate Size Lugged Cable               | 1/2 - 13                    | 3.5 lbs. (1.6kg) | 2" (51mm)   | 2-1/8" (54mm) |
| MIG-600-D  | 02081         | 600          | No.3/0 thru No. 4/0 (70-95mm <sup>2</sup> ) | Detachable Cable Connection | 3.9 lbs. (1.8kg) | 2" (51mm)   | 2-1/8" (54mm) |

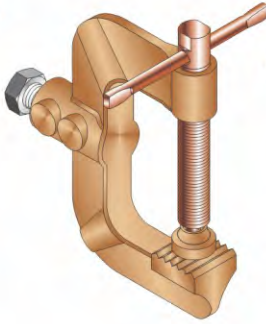


# HEAVY DUTY GROUND CLAMPS

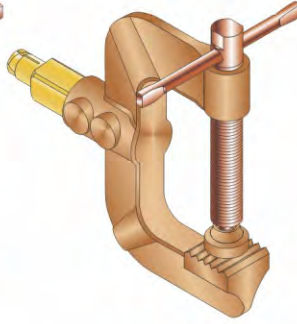
## Model "G"/G-1500 Ground Clamps



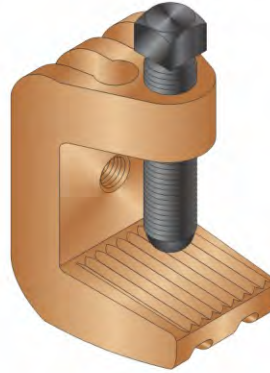
Model "G"



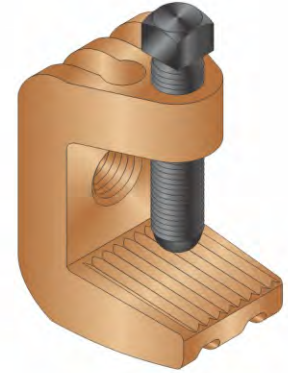
Model G-50



Model G-50WDM



Model G-1500-34



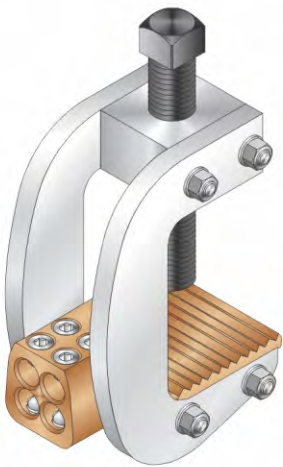
Model G-1500-138

### • Reduce Voltage Drop

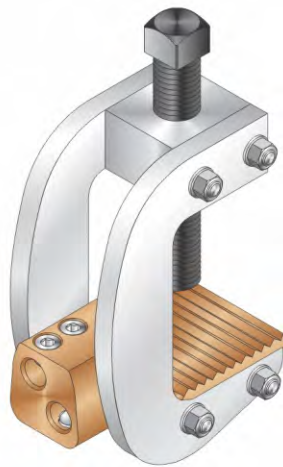
Apply up to 2,000 lbs. (907kg) pressure with the heavy duty pressure screw. The "G" and G-1500 are cast out of a heavy alloy material designed for high amperage applications. The design maximizes surface contact area which provides cool and efficient operation. The G-1500 can also be used with LENCO's R-4C & LRG Series Rotary Grounds (see pages 10-11).

| Model      | Item Code No. | Amp Capacity | Type of Connection          | Weight          | Jaw Opening     | Throat Depth  | Cable Capacity                            |
|------------|---------------|--------------|-----------------------------|-----------------|-----------------|---------------|-------------------------------------------|
| G          | 02060         | 600          | Two Oval-Point Screws       | 70.4 oz.(2kg)   | 3-3/8" (85.7mm) | 3-1/8" (79mm) | No.3/0 thru No.4/0(70-95mm <sup>2</sup> ) |
| G-50       | 02061         | 600          | 1/2 - 13 Screw              | 70.4 oz.(2kg)   | 3-3/8" (85.7mm) | 3-1/8" (79mm) | Appropriate Size Lugged Cable             |
| G-50WDM    | 02069         | 600          | Detachable Cable Connection | 70.4 oz.(2kg)   | 3-3/8" (85.7mm) | 3-1/8" (79mm) | No.3/0 thru No.4/0(70-95mm <sup>2</sup> ) |
| G-1500-34  | 02230         | 1500         | 3/4 - 10 F. Thread          | 9.5 lbs.(4.3kg) | 3" (76.2mm)     | 3" (76.2mm)   | N/A                                       |
| G-1500-138 | 02240         | 2000         | 1-3/8 - 6 F. Thread         | 9.5 lbs.(4.3kg) | 3" (76.2mm)     | 3" (76.2mm)   | N/A                                       |

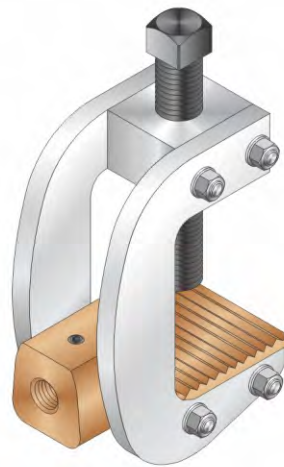
## Model RBG1500 Ground Clamps - Totally Rebuildable



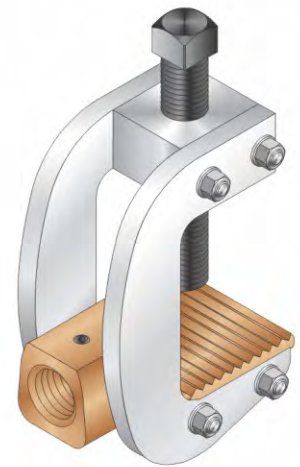
RBG1500-4/40



RBG1500-2/250



RBG1500-34



RBG1500-138

- Heavy Duty fits large diameter pipe & thick plate up to 4-1/2"
- Strong steel frame that will not spread open

- Heavy copper base for efficient current transfer
- **Special larger jaw opening available on request up to 12" & above**

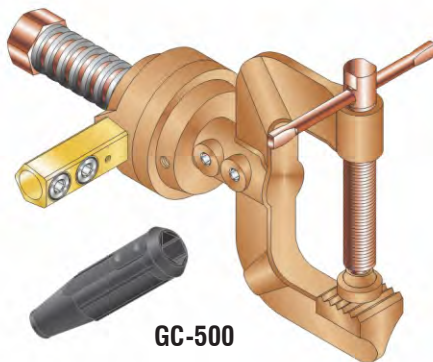
| Model         | Item Code No. | Amp Capacity | Type of Connection  | Weight           | Jaw Opening      | Throat Depth | Cable Capacity     |
|---------------|---------------|--------------|---------------------|------------------|------------------|--------------|--------------------|
| RBG1500-4/40  | 02620         | 1500         | 8 Oval-Point Screws | 13.2 lbs.(6.0kg) | 4 1/2" (114.3mm) | 3" (76.2mm)  | 4 ea. - 4/0 cables |
| RBG1500-2/250 | 02630         | 1500         | 4 Oval-Point Screws | 13.6 lbs.(6.2kg) | 4 1/2" (114.3mm) | 3" (76.2mm)  | 2 ea. - 250MCM     |
| RBG1500-34    | 02610         | 1500         | 3/4 - 10 F. Thread  | 13.8 lbs.(6.3kg) | 4 1/2" (114.3mm) | 3" (76.2mm)  | N/A                |
| RBG1500-138   | 02600         | 2000         | 1-3/8 - 6 F. Thread | 13.2 lbs.(6.0kg) | 4 1/2" (114.3mm) | 3" (76.2mm)  | N/A                |



# GROUND CLAMPS

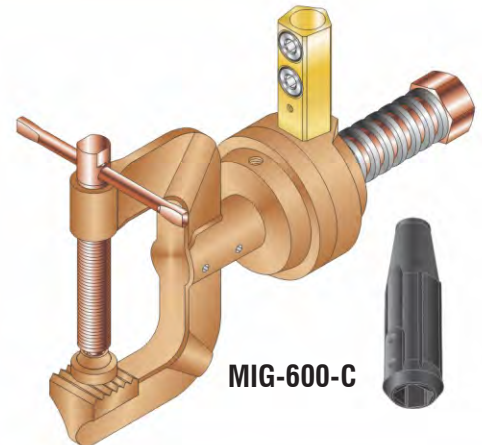
## ROTARY GROUNDS

### ROTARY GROUND CLAMPS



GC-500

The two Lenco rotary devices shown here, the **GC-500** and the **MIG-600-C**, are combinations of Lenco products to provide rotating grounds. Both use the **Model "C"** rotary clamp. Both are designed to make it easy to attach the rotating portion to the work. The units come completely assembled, ready to attach to the work. They are field proven and do an excellent job.



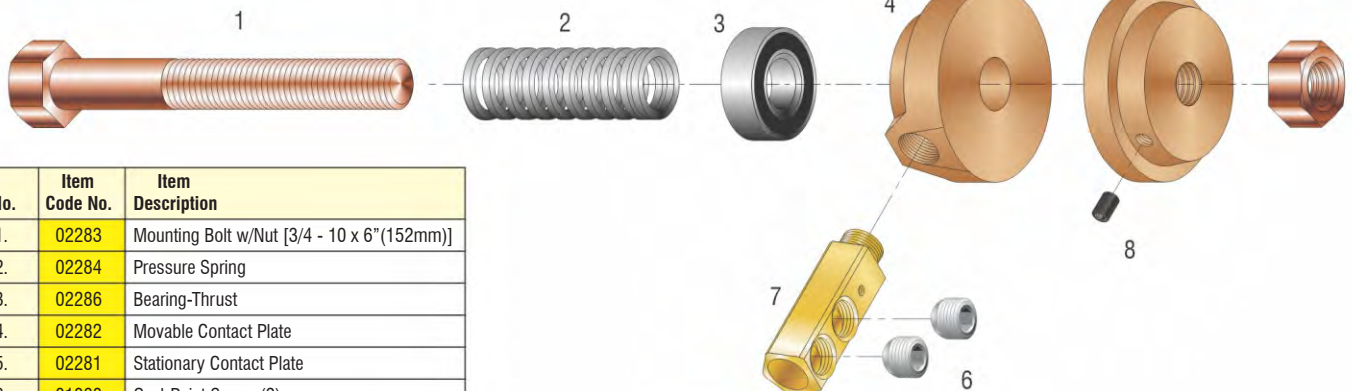
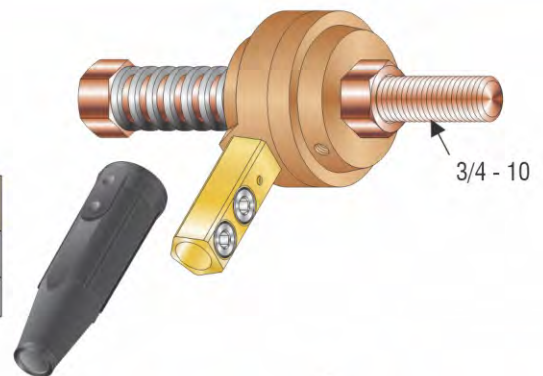
MIG-600-C

| Model     | Item Code No. | Amp Capacity | Cable Fitting Thread | Type of Cable Connection                        | Weight         | Jaw Opening     | Throat Depth  | Cable Capacity                         |
|-----------|---------------|--------------|----------------------|-------------------------------------------------|----------------|-----------------|---------------|----------------------------------------|
| GC-500    | 02120         | 500          | 1/2 - 13             | 2 Oval-Point Screws, with Cover                 | 8 lbs. (3.6kg) | 3-3/8" (85.7mm) | 2-1/2" (64mm) | No.3/0 thru 4/0(70-95mm <sup>2</sup> ) |
| —         | 02121         | 500          | 1/2 - 13             | Replacement C clamp for GC-500                  |                |                 |               |                                        |
| MIG-600-C | 02130         | 500          | 1/2 - 13             | 2 Oval-Point Screws, with Cover                 | 7 lbs. (3.2kg) | 2" (51mm)       | 2-1/8"(54mm)  | No.3/0 thru 4/0(70-95mm <sup>2</sup> ) |
| —         | 02132         | 500          | 1/2 - 13             | Replacement C clamp for MIG-600-C               |                |                 |               |                                        |
| —         | 05345         |              |                      | Insulating Cover (Black) Standard Cable Fitting |                |                 |               |                                        |

### Model "C" Rotary Grounds

The **MODEL "C"** rotary clamp bolts the stationary contact plate directly to the work. The movable contact plate revolves like a "ferris wheel action" and the spring keeps tension on the two faces. Current flow is between machined faces. Cables will not bind. The Model "C" can also be installed on the end for rotary work.

| Model | Item Code No. | Amp Capacity | Type of Cable Connection                        | Weight           | Cable Capacity                           |
|-------|---------------|--------------|-------------------------------------------------|------------------|------------------------------------------|
| C     | 02080         | 500          | Double Oval-Point Screws                        | 3.5 lbs. (1.6kg) | No. 3/0 thru 4/0 (70-95mm <sup>2</sup> ) |
| —     | 05345         |              | Insulating Cover (Black) Standard Cable Fitting |                  |                                          |



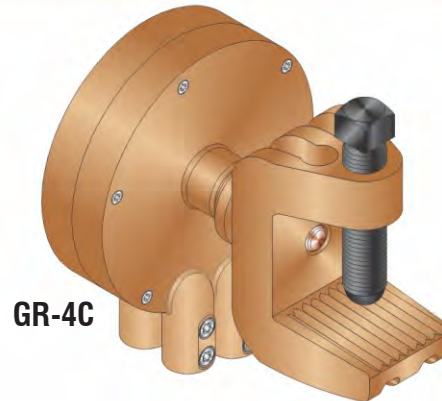
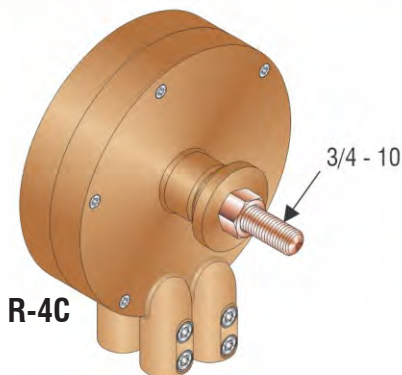
| No. | Item Code No. | Item Description                           |
|-----|---------------|--------------------------------------------|
| 1.  | 02283         | Mounting Bolt w/Nut [3/4 - 10 x 6"(152mm)] |
| 2.  | 02284         | Pressure Spring                            |
| 3.  | 02286         | Bearing-Thrust                             |
| 4.  | 02282         | Movable Contact Plate                      |
| 5.  | 02281         | Stationary Contact Plate                   |
| 6.  | 01068         | Oval-Point Screw (2)                       |
| 7.  | 02085         | Cable Fitting (1/2 - 13)                   |
| 8.  | 02285         | Set Screw (5/16 - 18)                      |



# ROTARY GROUND CLAMPS

LENCO rotary grounds stop the twisting of welding cables where the work rotates.

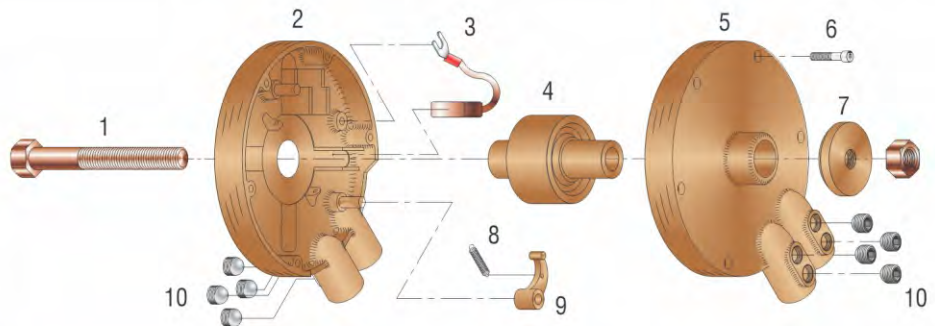
## Model "R-4C-"/"GR-4C" Rotary Grounds



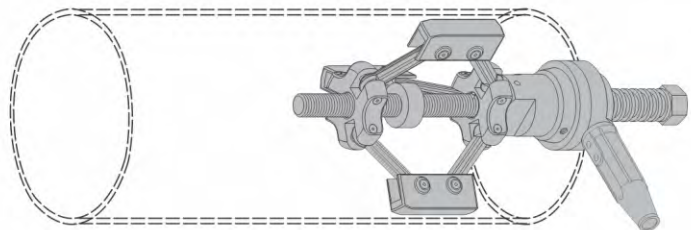
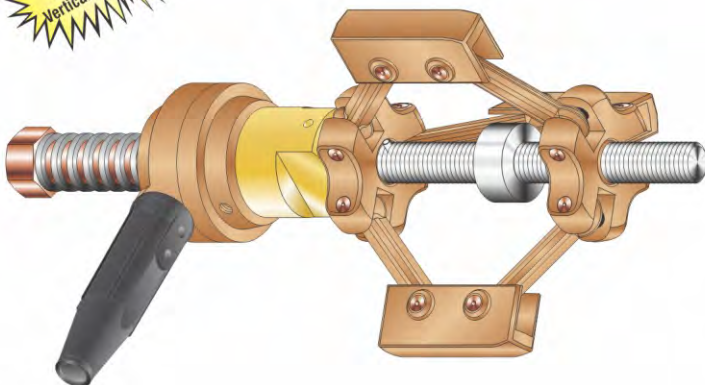
| Model | Item Code No. | Amp Capacity | Type of Cable Connection               | Weight           | Jaw Opening | Throat Depth | Cable Capacity                           |
|-------|---------------|--------------|----------------------------------------|------------------|-------------|--------------|------------------------------------------|
| R-4C  | 02200         | 1500         | (4) Double Oval-Point Screw Connection | 23 lbs. (10.4kg) | —           | —            | No. 3/0 thru 4/0 (70-95mm <sup>2</sup> ) |
| GR-4C | 02220         | 1500         | (4) Double Oval-Point Screw Connection | 33 lbs. (15.4kg) | 3" (76.2mm) | 3" (76.2mm)  | No. 3/0 thru 4/0 (70-95mm <sup>2</sup> ) |

### MODEL "R-4C" REPLACEMENT PARTS LIST

| Item No. | Item Code No. | Description                                     |
|----------|---------------|-------------------------------------------------|
| 1.       | 02108         | Mounting Bolt w/Nut [3/4 - 10 x 7 1/2" (190mm)] |
| 2.       | 02101         | Clamp Housing, Threaded                         |
| 3.       | 02104         | Brushes (4)                                     |
| 4.       | 02103         | Rotor                                           |
| 5.       | 02102         | Clamp Housing, Counterbored                     |
| 6.       | 02107         | Cap Screw (5)                                   |
| 7.       | 02109         | Contact Plate                                   |
| 8.       | 02106         | Brush Finger Spring (4)                         |
| 9.       | 02105         | Brush Finger (4)                                |
| 10.      | 01068         | Oval-Point Screw (8)                            |



## PRG -48ID/816ID Rotating Internal Pipe Ground Clamps



The LENCO **PRG-48ID** and **PRG-816ID** Ground Clamps are designed for vertical or horizontal positions of manual, semi-automatic or fully automatic welding applications. The PRG series has three pads which, when positioned, make direct contact with the inside of the pipe being welded or cut - eliminating the need for additional mounting brackets or threaded assemblies. The PRG Series Ground Clamps utilize the reliable "C" rotary ground that incorporates both a stationary and movable contact plate that rotates 360°. The spring keeps tension on the two faces and is easily adjustable for various applications. By tightening or loosening the flange, the PRG grounds are easily installed or removed.

| Model    | Item Code No. | Amp Capacity | Description                               | Type of Cable Connection | Weight             | Cable Capacity                               |
|----------|---------------|--------------|-------------------------------------------|--------------------------|--------------------|----------------------------------------------|
| PRG-48ID | 02700         | 500          | Pipe Rotating Ground; 4 1/2"-8" I.D. Pipe | Double Oval-Point Screws | 10.5 lbs. (4.77kg) | No. 3/0 thru No. 4/0 (70-95mm <sup>2</sup> ) |
| PRG816ID | 02710         | 500          | Pipe Rotating Ground; 8"-16" I.D. Pipe    | Double Oval-Point Screws | 14 lbs. (6.36kg)   | No. 3/0 thru No. 4/0 (70-95mm <sup>2</sup> ) |



# ROTARY GROUND CLAMPS

## Model LRG-140/LRG-240/LRG-440/LRG-640 Rotating Grounds



LENCO Rotating Grounds ranging from 400 amp to 2000 amperage rating. Each Rotating Ground can be permanently welded to the work or easily attached by using the G-1500-138 or RBG1500-138 "C" type clamp.

| Model       | Item Code No. | Amp Capacity | Type of Cable Connection               | Cable Capacity                       | Number of Heads | Shaft Stud Size | Weight              |
|-------------|---------------|--------------|----------------------------------------|--------------------------------------|-----------------|-----------------|---------------------|
| LRG-140     | 02500         | 400          | (1) Triple Oval-Point Screw Connection | 1 EA. 3/0-4/0(70-95mm <sup>2</sup> ) | 1               | 3/4"-10 NC      | 3.60 lbs. (1.63kg)  |
| LRG-240     | 02510         | 800          | (2) Triple Oval-Point Screw Connection | 2 EA. 3/0-4/0(70-95mm <sup>2</sup> ) | 1               | 1-3/8" NC       | 8.75 lbs. (3.97kg)  |
| LRG-440     | 02520         | 1500         | (4) Triple Oval-Point Screw Connection | 4 EA. 3/0-4/0(70-95mm <sup>2</sup> ) | 2               | 1-3/8" NC       | 15.25 lbs. (6.92kg) |
| LRG-640     | 02530         | 2000         | (6) Triple Oval-Point Screw Connection | 6 EA. 3/0-4/0(70-95mm <sup>2</sup> ) | 3               | 1-3/8" NC       | 21.75 lbs. (9.87kg) |
| G-1500-138  | 02240         | 800-2000     | 1-3/8" - 6 F. Thread                   | N/A                                  | N/A             | N/A             | 9.5 lbs. (4.3kg)    |
| RBG1500-138 | 02600         | 800-2000     | 1-3/8" - 6 F. Thread                   | N/A                                  | N/A             | N/A             | 13.2 lbs (6.0kg)    |

### LRG-140/LRG-240/LRG-440/LRG-640 Replacement Parts



| Item No. | Code No. | Description                        | LRG-140 | LRG-240 | LRG-440 | LRG-640 |
|----------|----------|------------------------------------|---------|---------|---------|---------|
| 1.       | 02514    | Rotating Casting                   | 1       | 1       | 2       | 3       |
|          | 02515    | Rotating Casting                   |         |         |         |         |
| 2.       | 02579    | Mounting Nut                       | 1       |         |         |         |
|          | 02580    | Mounting Nut w/Oval Point Screw    |         | 1       | 1       | 1       |
| 3.       | 02574    | Tension Adjustment Screw w/Washers | 1       |         |         |         |
|          | 02575    | Tension Adjustment Screw w/Washers |         | 1       | 2       | 3       |
| 4.       | 02585    | Insulating Cover                   | 1       | 2       | 4       | 6       |
| 5.       | 02570    | Grease Cup                         | 1       | 1       | 2       | 3       |
| 6.       | 02577    | Head Alignment Pin                 |         |         | 1       | 2       |
| 7.       | 02572    | Tightening Bar                     |         | 1       | 1       | 1       |
| 8.       | 02587    | Oval Point Screw                   | 3       | 6       | 12      | 18      |
| 9.       | 01065    | Cover Screw                        | 1       | 2       | 4       | 6       |
| 10.      | 02560    | Shaft                              | 1       |         |         |         |
|          | 02561    | Shaft                              |         | 1       |         |         |
|          | 02562    | Shaft                              |         |         | 1       |         |
|          | 02563    | Shaft                              |         |         |         | 1       |

| Item Code No. | Description                     |
|---------------|---------------------------------|
| 02590         | 1 oz. Tube                      |
| 02591         | 8 oz. w/Brush Top Can           |
| 02592         | 16 oz. w/Brush Top Can          |
| 02593         | 16 oz. Cartridge for Grease Gun |

| Item Code No. | Description                        |
|---------------|------------------------------------|
| 025001        | LRG-140 Roto Ground w/Spec Fitting |
| 025101        | LRG-240 w/Special Grease Fitting   |
| 025201        | LRG-440 w/Special Grease Fitting   |
| 025301        | LRG-640 w/Special Grease Fitting   |

| Item Code No. | Description                             |
|---------------|-----------------------------------------|
| 02571         | Grease Fitting - Button Head            |
| 02595         | Pistol Grease Gun w/Button Head Coupler |
| 02596         | Coupler - Button Head                   |

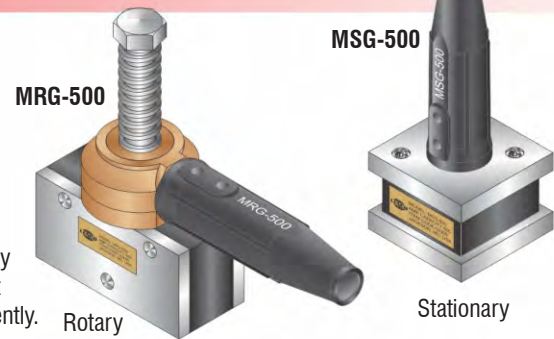


# GROUND CLAMPS

## MAGNETIC and MAGNETIC ROTARY GROUNDS

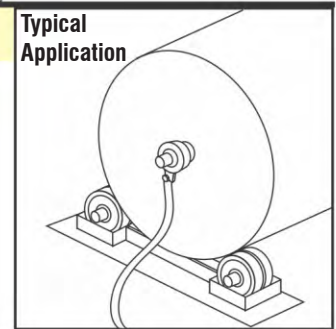
LENCO's magnetic grounds offer convenience, efficiency and quality. Both the **MRG-500** and **MSG-500** are designed to ensure greater efficiency with less overheating due to fewer junctions. Each allows the operator to keep the ground close to the work area improving the weld quality, decreasing the weld time and increasing operator production output. Lenco magnetic grounds are designed for up to 4/0 cable for maximum current carrying capacity. (for use on ferrous materials only)

The **MRG-500** is designed to be used for any rotary type welding work where cable can become twisted. The **MRG-500** covers 12 square inches giving good stability with approximately 4 inches of actual current carrying contact. The **MSG-500** also has 12 square inches of contact surface, 3 square inches per side, which can be mounted in any position and still perform efficiently.



| Model   | Item Code No. | Amp Capacity | Type of Cable Connection           | Weight         | Cable Capacity                               |
|---------|---------------|--------------|------------------------------------|----------------|----------------------------------------------|
| MRG-500 | 02400         | 500          | Double Oval-Point Screw with Cover | 9 lbs. (4.0kg) | No. 3/0 thru No. 4/0 (70-95mm <sup>2</sup> ) |
| MSG-500 | 02300         | 500          | Double Oval-Point Screw with Cover | 4 lbs. (1.8kg) | No. 3/0 thru No. 4/0 (70-95mm <sup>2</sup> ) |

### "Genuine" MAGNETRODE Magnetic Rotary Grounds



#### Model 900

Up to 500 amps. Includes terminal handle for attaching one 4/0 ground cable. Easily attaches using Lenco Lug on cable.

#### Model 1500

Up to 1000 amps. Includes terminal handle for attaching two 4/0 ground cables. Easily attaches using Lenco Lugs on cables.

#### Model 2000

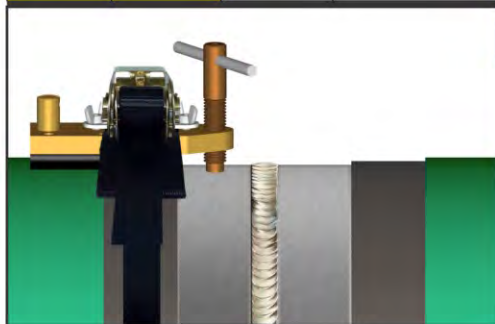
Up to 1500 amps. Includes terminal handle for attaching three 4/0 ground cables. Easily attaches using Lenco Lugs on cables.



#### Conductive Lubricant

| Item Code No. | Description            |
|---------------|------------------------|
| 02590         | 1 oz. Tube             |
| 02591         | 8 oz. w/Brush Top Can  |
| 02592         | 16 oz. w/Brush Top Can |

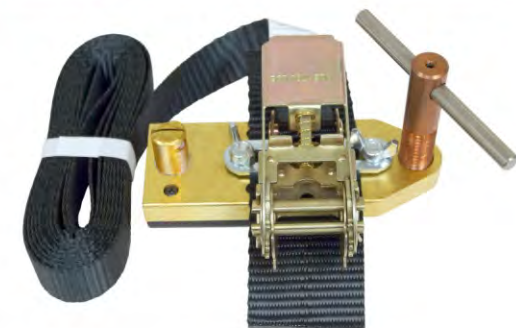
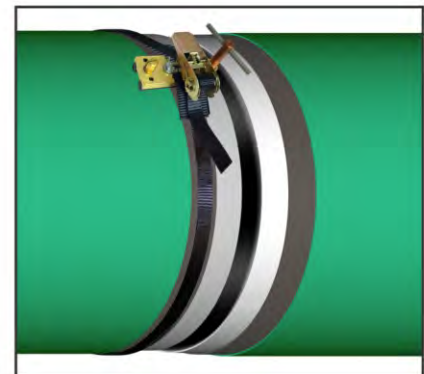
| Model | Item Code No. | Amp Capacity | Type of Cable Connection | Cable Capacity             |
|-------|---------------|--------------|--------------------------|----------------------------|
| 900   | 02410         | 500          | Single 1/2-13 Screw      | 1 4/0 (95mm <sup>2</sup> ) |
| 1500  | 02420         | 1000         | Double 1/2-13 Screw      | 2 4/0 (95mm <sup>2</sup> ) |
| 2000  | 02430         | 1500         | Triple 1/2-13 Screw      | 3 4/0 (95mm <sup>2</sup> ) |



### CPG-400

#### 400 Amp Ground Designed for use on coated pipe

- 400 amp capacity
- Will work on any pipe
- Insulated pads won't damage or arc on pipe coatings
- Tightens with 10' web strap (included) which will fit up to 6' diameter pipe
- Strap width 1" / flame retardant (194 deg. F. max. working temp.)
- Easily connect ground cable with Lenco LC-40 (*Dinse* model available)



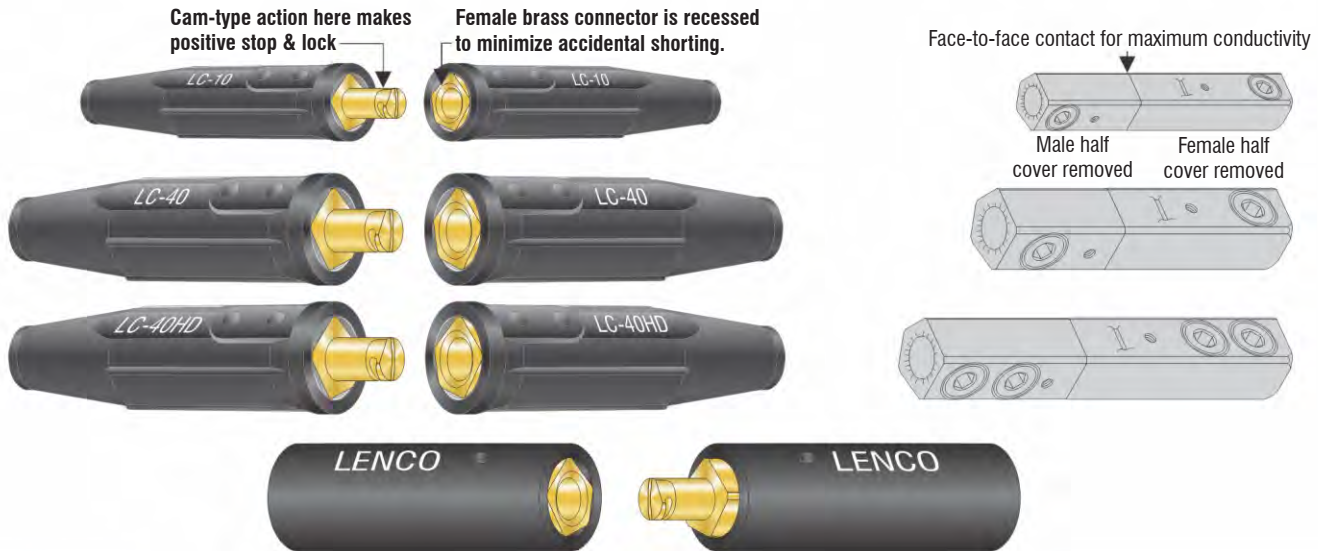
| Model    | Item Code No. | Amp Capacity | Type of Cable Connection | Weight |
|----------|---------------|--------------|--------------------------|--------|
| CPG-400  | 02450         | 400          | LENCO LC-40              | 45 oz. |
| CPG-400D | 02460         | 400          | <i>Dinse</i>             | 45 oz. |



# CABLE CONNECTORS

## Positive Lock-Tight Action

The advanced design of LENCO cable connectors offers many advantages over older styles. Metal parts are precision machined from specially shaped brass extrusion. Cam action design of male half connector pulls the two halves tightly together. Connector covers are molded from a special heat and cold resistant material.



LC-40HD w/GLASS FILLED NYLON COVER  
Designed for extreme heat applications.

### COVERS ARE AVAILABLE IN

**BLACK, RED, YELLOW, PINK, BLUE, GREEN, ORANGE, & WHITE**

Colored covers make it easy to locate the connectors for field use. Also identify cable leads easily for contractors and field erectors.

**Optional - Connector covers may be custom imprinted with company name.**

| Model                              | Cable Connection        | Amp Capacity | Cable Capacity                               |
|------------------------------------|-------------------------|--------------|----------------------------------------------|
| LC-10                              | Single Oval-Point Screw | 250          | No. 4 thru No. 1/0 (25-50mm <sup>2</sup> )   |
| LC-40                              | Single Oval-Point Screw | 350          | No. 1/0 thru No. 2/0 (50-70mm <sup>2</sup> ) |
| LC-40HD-1/0                        | Double Oval-Point Screw | 350          | No. 1/0 (50mm <sup>2</sup> )                 |
| LC-40HD-2/0                        | Double Oval-Point Screw | 400          | No. 2/0 (70mm <sup>2</sup> )                 |
| LC-40HD                            | Double Oval-Point Screw | 500          | No. 3/0 thru No. 4/0 (70-95mm <sup>2</sup> ) |
| LC-40HD w/Glass Filled Nylon Cover | Double Oval-Point Screw | 500          | No. 3/0 thru No. 4/0 (70-95mm <sup>2</sup> ) |



LTC-40



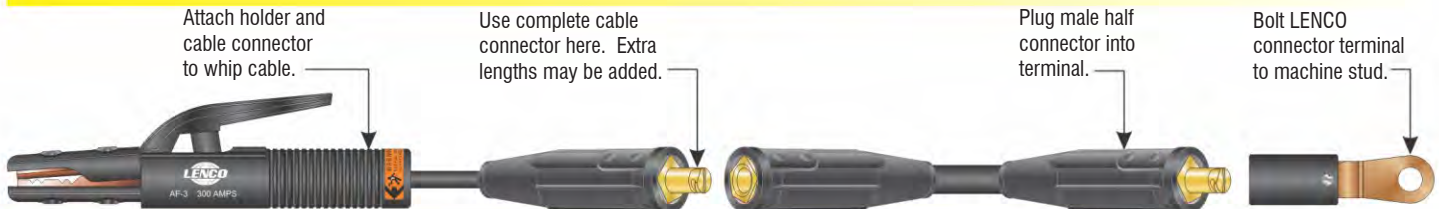
LTC-40-2M

| Model                              | Description        | Item Code No. |         |                                  |         |         |         |         |       | Weight        |
|------------------------------------|--------------------|---------------|---------|----------------------------------|---------|---------|---------|---------|-------|---------------|
|                                    |                    | Black         | Red     | Yellow                           | Pink    | Blue    | Green   | Orange  | White |               |
| LC-10                              | Complete Unit      | 05040         | 05041   | 05042                            | ---     | ---     | ---     | ---     | ---   | 9 oz. (255g)  |
|                                    | Male Half          | 05043         | 05044   | 05045                            | ---     | ---     | ---     | ---     | ---   | 4 oz. (115g)  |
|                                    | Female Half        | 05046         | 05047   | 05048                            | ---     | ---     | ---     | ---     | ---   | 5 oz. (140g)  |
|                                    | M Bulk Unassembled | 0504301       | 0504401 | ---                              | ---     | ---     | ---     | ---     | ---   | ---           |
|                                    | F Bulk Unassembled | 0504601       | 0504701 | ---                              | ---     | ---     | ---     | ---     | ---   | ---           |
| LC-40                              | Complete Unit      | 05050         | 05051   | 05052                            | 05550   | 05551   | 05552   | 05553   | 05554 | 14 oz. (400g) |
|                                    | Male Half          | 05053         | 05054   | 05055                            | 05555   | 05556   | 05557   | 05558   | 05559 | 7 oz. (198g)  |
|                                    | Female Half        | 05056         | 05057   | 05058                            | 05560   | 05561   | 05562   | 05563   | 05564 | 7 oz. (198g)  |
|                                    | M Bulk Unassembled | 0505301       | 0505401 | 0505501                          | 0555501 | 0555601 | 0555701 | 0555801 | ---   | ---           |
|                                    | F Bulk Unassembled | 0505601       | 0505701 | 0505801                          | 0556001 | 0556101 | 0556201 | 0556301 | ---   | ---           |
| LC-40HD-1/0                        | Complete Unit      | 0506004       | ---     | ---                              | ---     | ---     | ---     | ---     | ---   | 15 oz. (425g) |
|                                    | Male Half          | 0506304       | ---     | ---                              | ---     | ---     | ---     | ---     | ---   | 7 oz. (198g)  |
|                                    | Female Half        | 0506604       | ---     | ---                              | ---     | ---     | ---     | ---     | ---   | 8 oz. (225g)  |
|                                    | M Bulk Unassembled | 05063041      | ---     | ---                              | ---     | ---     | ---     | ---     | ---   | ---           |
|                                    | F Bulk Unassembled | 05066041      | ---     | ---                              | ---     | ---     | ---     | ---     | ---   | ---           |
| LC-40HD-2/0                        | Complete Unit      | 0506005       | ---     | ---                              | ---     | ---     | ---     | ---     | ---   | 15 oz. (425g) |
|                                    | Male Half          | 0506305       | ---     | ---                              | ---     | ---     | ---     | ---     | ---   | 7 oz. (198g)  |
|                                    | Female Half        | 0506605       | ---     | ---                              | ---     | ---     | ---     | ---     | ---   | 8 oz. (225g)  |
|                                    | M Bulk Unassembled | 05063051      | ---     | ---                              | ---     | ---     | ---     | ---     | ---   | ---           |
|                                    | F Bulk Unassembled | 05066051      | ---     | ---                              | ---     | ---     | ---     | ---     | ---   | ---           |
| LC-40HD                            | Complete Unit      | 05060         | 05061   | 05062                            | 05800   | 05801   | 05802   | 05803   | ---   | 15 oz. (425g) |
|                                    | Male Half          | 05063         | 05064   | 05065                            | 05810   | 05811   | 05812   | 05813   | ---   | 7 oz. (198g)  |
|                                    | Female Half        | 05066         | 05067   | 05068                            | 05820   | 05821   | 05822   | 05823   | ---   | 8 oz. (225g)  |
|                                    | M Bulk Unassembled | 0506301       | 0506401 | ---                              | ---     | ---     | 058121  | ---     | ---   | ---           |
|                                    | F Bulk Unassembled | 0506601       | 0506701 | ---                              | 058211  | ---     | ---     | ---     | ---   | ---           |
| LC-40HD w/Glass Filled Nylon Cover | Male Half          | 05171         | ---     | ---                              | ---     | ---     | ---     | ---     | ---   | 6 oz. (170g)  |
|                                    | Female Half        | 05175         | ---     | ---                              | ---     | ---     | ---     | ---     | ---   | 7 oz. (198g)  |
| LTC-40                             | "T" Connector      | 05900         | 05901   | LC-40 Male (1); LC-40 Female (2) |         |         |         |         |       | 11 oz. (310g) |
| LTC-40-2M                          | "T" Connector      | 05910         | 05911   | LC-40 Male (2); LC-40 Female (1) |         |         |         |         |       | 13 oz. (368g) |



# CABLE CONNECTORS

## Assemblies



## Whip Cable Connectors

The Lenco cable connector reducer consists of the male plug only. The plug end is the same size as the LC-40 connector male end and fits the LC-40 and LC-40HD female connector. The cable end is the same size as the LC-10 connector and will accept cable size up to No. 1/0 (50mm<sup>2</sup>).

| Model      | Item Code No. |       | Cable Connection        | Maximum Cable Capacity       | Weight       |
|------------|---------------|-------|-------------------------|------------------------------|--------------|
|            | Black         | Red   |                         |                              |              |
| LC-1040    | 05070         | 05071 | Oval-Point Screw        | No. 1/0 (50mm <sup>2</sup> ) | 6 oz. (170g) |
| LC40HD-1/0 | 0506304       | N/A   | Double Oval-Point Screw | No. 1/0 (50mm <sup>2</sup> ) | 7 oz. (198g) |



## International DINSE Style



| Model  | Description   | Item Code No. |       | Male End Diameter | Cable Capacity                                | Cable Connection        | Amp Capacity | Weight         |
|--------|---------------|---------------|-------|-------------------|-----------------------------------------------|-------------------------|--------------|----------------|
|        |               | Black         | Red   |                   |                                               |                         |              |                |
| LDC-25 | Complete Unit | 05420         | 05421 | .355 (9.0mm)      | No. 8 thru. No. 4 (10-25mm <sup>2</sup> )     | Single Oval-Point Screw | 150          | 3.8 oz. (109g) |
|        | Male Half     | 05423         | 05424 |                   |                                               |                         |              | 1.9 oz. (55g)  |
|        | Female Half   | 05426         | 05427 |                   |                                               |                         |              | 1.9 oz. (55g)  |
| LDC-50 | Complete Unit | 05430         | 05431 | .508 (12.9mm)     | No. 4 thru. No. 1/0 (25-50mm <sup>2</sup> )   | Single Oval-Point Screw | 250          | 14 oz. (400g)  |
|        | Male Half     | 05433         | 05434 |                   |                                               |                         |              | 7 oz. (198g)   |
|        | Female Half   | 05436         | 05437 |                   |                                               |                         |              | 7 oz. (198g)   |
| LDC-70 | Complete Unit | 05440         | 05441 | .508 (12.9mm)     | No. 1/0 thru. No. 2/0 (50-70mm <sup>2</sup> ) | Single Oval-Point Screw | 350          | 14 oz. (400g)  |
|        | Male Half     | 05443         | 05444 |                   |                                               |                         |              | 7 oz. (198g)   |
|        | Female Half   | 05446         | 05447 |                   |                                               |                         |              | 7 oz. (198g)   |
| LDC-95 | Complete Unit | 05450         | 05451 | .508 (12.9mm)     | No. 3/0 thru. No. 4/0 (70-95mm <sup>2</sup> ) | Double Oval-Point Screw | 500          | 15 oz. (425g)  |
|        | Male Half     | 05453         | 05454 |                   |                                               |                         |              | 7 oz. (198g)   |
|        | Female Half   | 05456         | 05457 |                   |                                               |                         |              | 8 oz. (225g)   |

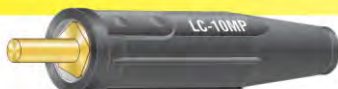
## Cam-Lock Style Connectors



| Model     | Description                  | Item Code No. |       | Amp Capacity                                    | Cable Capacity | Cable Connection        | Interchangable with the following |         |
|-----------|------------------------------|---------------|-------|-------------------------------------------------|----------------|-------------------------|-----------------------------------|---------|
|           |                              | Black         | Red   |                                                 |                |                         | Cam-Lok®                          | Miller® |
| LC-CAM-1  | Male Half                    | 05920         | 05921 | 250                                             | No. 4 thru 1/0 | Single Oval-Point Screw | E1012-62 (Black) E1012-61 (Red)   | 039629  |
|           | Female Half                  | 05925         | 05926 | 250                                             | No. 4 thru 1/0 | Single Oval-Point Screw | n/a                               | 039633  |
| LC-CAM-2  | Male Half                    | 05930         | 05931 | 350                                             | 1/0 thru 2/0   | Single Oval-Point Screw | E1012-64 (Black) E1012-63 (Red)   | 039630  |
|           | Female Half                  | 05935         | 05936 | 350                                             | 1/0 thru 2/0   | Single Oval-Point Screw | E1012-72 (Black) E1012-71 (Red)   | 039633  |
| LC-CAM-4  | Male Half                    | 05940         | 05941 | 500                                             | 3/0 thru 4/0   | Double Oval-Point Screw | E1012-66 (Black) E1012-65 (Red)   | 039639  |
|           | Female Half                  | 05945         | 05946 | 500                                             | 3/0 thru 4/0   | Double Oval-Point Screw | E1012-74 (Black) E1012-73 (Red)   |         |
| CT-CAM-FA | Connector Terminal Angle 45° | 08035         | ---   | Use with LC-CAM-1, LC-CAM-2, and LC-CAM-4 Males |                |                         |                                   |         |

## Machine Plugs

Model LC-10MP  
Fits Miller® welders\*



Model UP-10

Fits variety of welders  
Century® • Powermate® • Forney® • Others



LENCO machine plugs are designed to fit welding machines using long tapered plug and receptacle. Two types are available, the LC-10MP and the UP-10, both with red or black cover.

| Model   | Item Code No. |       | Cable Connection        | Cable Capacity                             | Taper Dimension       | Taper Length    | Weight       |
|---------|---------------|-------|-------------------------|--------------------------------------------|-----------------------|-----------------|--------------|
|         | Black         | Red   |                         |                                            |                       |                 |              |
| LC-10MP | 05080         | 05081 | Single Oval-Point Screw | No. 4 thru No. 1/0 (25-50mm <sup>2</sup> ) | .330-.352 (8.4-8.9mm) | 1.062" (27mm)   | 4 oz. (115g) |
| UP-10   | 05270         | 05271 | Single Oval-Point Screw | No. 4 thru No. 1/0 (25-50mm <sup>2</sup> ) | .364-.385 (9.2-9.8mm) | 1.000" (25.4mm) | 4 oz. (115g) |

\*Can be used to replace Miller part no. 039-608 (Red) and 039-901 (Black)



# Mechanical Cable Lugs, Splicers, and Connector Terminals

## • LENCO Cable Lugs Make Positive Cable Connection to the Welder

These mechanical lugs replace the ordinary solder lug for attaching welding cable to a welder. They are heavy duty cast copper alloy to take today's higher amperages. Cable is easily attached using large oval-point screw connection driven down with a 1/4" (6.35mm) allen wrench.



LM-610A  
LM-2040A



LM-610S  
LM-2040S



LM-2040S-HD  
LM-2040S-HD-34



LM-610AI  
LM-2040AI



LM-610SI  
LM-2040SI



LM-2040SI-HD  
LM-2040SI-HD-34

| Model                    | Item Code No. | Style               | Cable Capacity                           | Weight        | Stud Hole       |
|--------------------------|---------------|---------------------|------------------------------------------|---------------|-----------------|
| <b>Without Insulator</b> |               |                     |                                          |               |                 |
| LM-610A                  | 07040         | Angle 45°           | No. 6 thru 1/0 (16-50mm <sup>2</sup> )   | 4 oz. (115g)  | 17/32" (13.5mm) |
| LM-610S                  | 07050         | Straight            | No. 6 thru 1/0 (16-50mm <sup>2</sup> )   | 4 oz. (115g)  | 17/32" (13.5mm) |
| LM-2040A                 | 07060         | Angle 45°           | No. 2/0 thru 4/0 (50-95mm <sup>2</sup> ) | 7 oz. (200g)  | 17/32" (13.5mm) |
| LM-2040S                 | 07070         | Straight            | No. 2/0 thru 4/0 (50-95mm <sup>2</sup> ) | 7 oz. (200g)  | 17/32" (13.5mm) |
| LM-2040S-HD              | 07120         | Straight            | No. 2/0 thru 4/0 (50-95mm <sup>2</sup> ) | 20 oz. (570g) | 21/32" (16.8mm) |
| LM-2040S-HD-34           | 07140         | Straight            | No. 2/0 thru 4/0 (50-95mm <sup>2</sup> ) | 20 oz. (570g) | 25/32" (20mm)   |
| <b>With Insulator</b>    |               |                     |                                          |               |                 |
| LM-610AI                 | 07080         | Angle 45° Insulated | No. 6 thru 1/0 (16-50mm <sup>2</sup> )   | 5 oz. (140g)  | 17/32" (13.5mm) |
| LM-610SI                 | 07090         | Straight Insulated  | No. 6 thru 1/0 (16-50mm <sup>2</sup> )   | 5 oz. (140g)  | 17/32" (13.5mm) |
| LM-2040AI                | 07100         | Angle 45° Insulated | No. 2/0 thru 4/0 (50-95mm <sup>2</sup> ) | 8 oz. (230g)  | 17/32" (13.5mm) |
| LM-2040SI                | 07110         | Straight Insulated  | No. 2/0 thru 4/0 (50-95mm <sup>2</sup> ) | 8 oz. (230g)  | 17/32" (13.5mm) |
| LM-2040SI-HD             | 07130         | Straight Insulated  | No. 2/0 thru 4/0 (50-95mm <sup>2</sup> ) | 21 oz. (600g) | 21/32" (16.8mm) |
| LM-2040SI-HD-34          | 07150         | Straight Insulated  | No. 2/0 thru 4/0 (50-95mm <sup>2</sup> ) | 21 oz. (600g) | 25/32" (20mm)   |

## Connector Terminals

- LENCO connector terminals offer you the advantage of quickly connecting or disconnecting welding cable at the power source.
- LENCO LDCT-50FA/FS are designed for male *Dinse* type connectors.

- Add On Cable
- Take Off Cable
- Change Polarity

Connector terminals are used in place of solder-type lugs and secured directly to the studs of the welder. The male half of a LENCO cable connector is attached to welding cable and is inserted into the terminal.



| Model     | Item Code Number | Style     | Used with LENCO Connector | Weight       | Stud Hole Diameter |
|-----------|------------------|-----------|---------------------------|--------------|--------------------|
| CT-10FA   | 08010            | Angle 45° | LC-10 Male                | 5 oz. (140g) | 17/32" (13.5mm)    |
| CT-10FS   | 08020            | Straight  | LC-10 Male                | 5 oz. (140g) | 17/32" (13.5mm)    |
| CT-40FA   | 08030            | Angle 45° | LC-40 or LC-40HD Male     | 8 oz. (230g) | 17/32" (13.5mm)    |
| CT-40FS   | 08040            | Straight  | LC-40 or LC-40HD Male     | 8 oz. (230g) | 17/32" (13.5mm)    |
| LDCT-50FA | 08110            | Angle 45° | LDC-50/70/95 Male         | 8 oz. (230g) | 17/32" (13.5mm)    |
| LDCT-50FS | 08120            | Straight  | LDC-50/70/95 Male         | 8 oz. (230g) | 17/32" (13.5mm)    |

## • Splice Cable Fast, Easy — Anywhere



CS-610  
CS-2040



CS-3040

LENCO cable splicers are made from a special brass extrusion. Large oval-point steel screws on each end of the splicers make it easy to splice cables in the shop or in the field. Tough glass filled nylon sleeve insulates the splicer.

| Model   | Item Code No. | Cable Connection        | Amp Capacity | Cable Capacity                               | Length         | Weight        |
|---------|---------------|-------------------------|--------------|----------------------------------------------|----------------|---------------|
| CS-610  | 06010         | Single Oval-Point Screw | 250          | No. 6 thru No. 1/0 (16-50mm <sup>2</sup> )   | 3 3/4" (95mm)  | 4 oz. (115g)  |
| CS-2040 | 06020         | Single Oval-Point Screw | 350          | No. 1/0 thru No. 2/0 (50-70mm <sup>2</sup> ) | 4 1/4" (108mm) | 7 oz. (200g)  |
| CS-3040 | 06030         | Double Oval-Point Screw | 500          | No. 3/0 thru No. 4/0 (70-95mm <sup>2</sup> ) | 6" (152mm)     | 12 oz. (340g) |

Note: All cable splicers must be properly insulated.

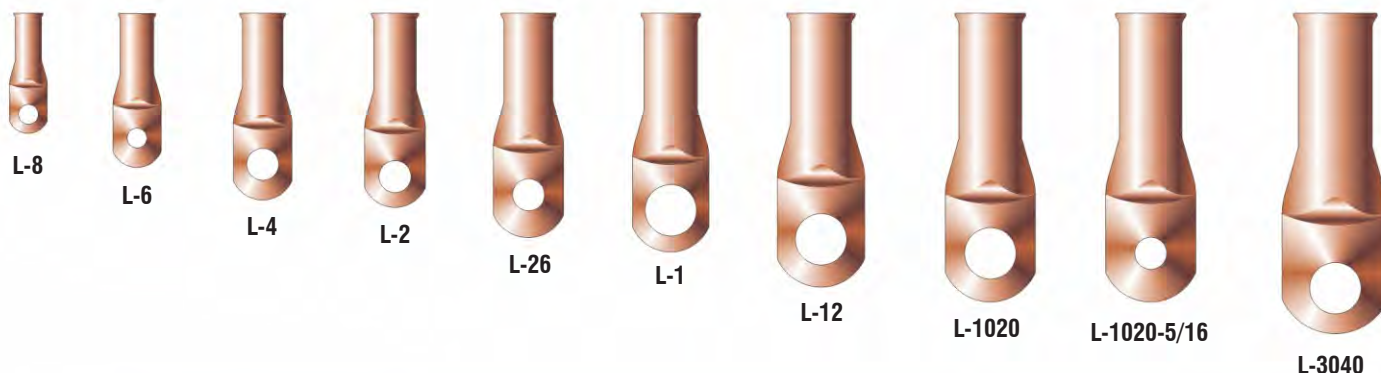


# CABLE LUGS & SPLICERS

## Welding Cable Lugs

### • Made Special For Welding Cable Use

LENCO cable lugs are precision made from copper tubing. They have an extra long barrel for easy soldering or attaching by the swedg-on process. The stud holes are made especially for welding machines with plenty of clearance. Flared ends make it easy to insert the cable in the lug.



### POWER CABLE LUGS

| Model | Item Code No. | Cable Capacity                           | Stud Hole       | Barrel I.D.   | Weight per 100   |
|-------|---------------|------------------------------------------|-----------------|---------------|------------------|
| L-8   | 06980         | No. 12 thru No. 14 (3-2mm <sup>2</sup> ) | 13/64" (5.16mm) | .185" (4.7mm) | 1.1 lbs. (.42kg) |
| L-6   | 06985         | No. 8 thru No. 10 (10-6mm <sup>2</sup> ) | 13/64" (5.16mm) | .232" (6mm)   | 1.3 lbs. (.53kg) |
| L-4   | 06990         | No. 6 thru No. 8 (16-10mm <sup>2</sup> ) | 21/64" (8.3mm)  | .286" (7.3mm) | 1.9 lbs. (.78kg) |
| L-2   | 06995         | No. 4 thru No. 6 (25-16mm <sup>2</sup> ) | 21/64" (8.3mm)  | .336" (8.5mm) | 2.8 lbs. (1.2kg) |

### WELDING CABLE LUGS

|             |       |                                              |                 |                |                  |
|-------------|-------|----------------------------------------------|-----------------|----------------|------------------|
| L-26        | 07005 | No. 2 thru No. 6 (35-16mm <sup>2</sup> )     | 21/64" (8.3mm)  | .344" (8.7mm)  | 4 lbs. (1.7kg)   |
| L-1         | 07000 | No. 2 thru No. 6 (35-16mm <sup>2</sup> )     | 17/32" (13.5mm) | .360" (9mm)    | 4.7 lbs. (2.1kg) |
| L-12        | 07010 | No. 1 thru No. 2 (50-35mm <sup>2</sup> )     | 17/32" (13.5mm) | .402" (10.2mm) | 5 lbs. (2.2kg)   |
| L-1020      | 07020 | No. 1/0 thru No. 2/0 (50-70mm <sup>2</sup> ) | 17/32" (13.5mm) | .495" (12.6mm) | 10 lbs. (4.3kg)  |
| L-1020-5/16 | 07021 | No. 1/0 thru No. 2/0 (50-70mm <sup>2</sup> ) | 21/64" (8.3mm)  | .495" (12.6mm) | 10 lbs. (4.3kg)  |
| L-3040      | 07030 | No. 3/0 thru No. 4/0 (70-95mm <sup>2</sup> ) | 17/32" (13.5mm) | .620" (15.7mm) | 14 lbs. (6.3kg)  |

## Welding Cable Splicers & Universal Heat Shrink



MODEL S-12



MODEL S-1020



MODEL S-3040



MODEL HS-I

LENCO welding cable splicers are made from copper tube. They are attached to welding cable with the swedg-on tool. LENCO welding cable splicers are ideal for connecting broken lengths of cable, making repairs and adding on cable for longer runs.

| Model  | Item Code No. | Cable Capacity                               | Splicer I.D.   | Length       | Weight per 100  |
|--------|---------------|----------------------------------------------|----------------|--------------|-----------------|
| S-12   | 06110         | No. 1 thru No. 2 (50-35mm <sup>2</sup> )     | .402" (10.2mm) | 2.37" (60mm) | 4 lbs. (1.8kg)  |
| S-1020 | 06120         | No. 1/0 thru No. 2/0 (50-70mm <sup>2</sup> ) | .495" (12.6mm) | 2.92" (74mm) | 9 lbs. (4.1kg)  |
| S-3040 | 06130         | No. 3/0 thru No. 4/0 (70-95mm <sup>2</sup> ) | .620" (15.7mm) | 3.25" (83mm) | 12 lbs. (5.4kg) |

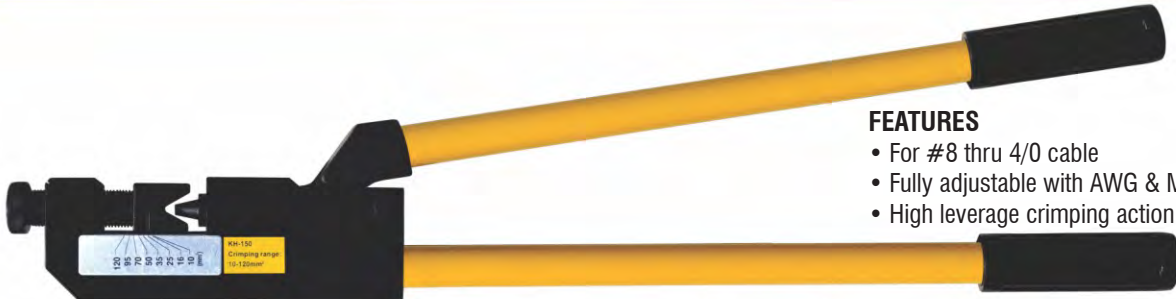
Note: All Cable Splicers must be properly insulated.

| Model | Item Code No. | Description                                               | Cable Capacity                             | I.D.         | Length        |
|-------|---------------|-----------------------------------------------------------|--------------------------------------------|--------------|---------------|
| HS-I  | 06140         | Universal heat shrink with adhesive to fit above splicers | No. 2 thru No. 4/0 (25-95mm <sup>2</sup> ) | 1.0 (25.4mm) | 5.00" (127mm) |



# CABLE LUG CRIMPERS & CABLE CUTTERS

## Heavy Duty Lug Crimper 22"



### FEATURES

- For #8 thru 4/0 cable
- Fully adjustable with AWG & MM scale
- High leverage crimping action

| Model      | Item Code No. | For Installing LENCO Lugs | LENCO Splicer    |
|------------|---------------|---------------------------|------------------|
| HD-CRIMPER | 04045         | L-8 thru L-3040           | S-12 thru S-3040 |

## Swedg-On Tool

### FEATURES

- Lugs and splicers are secured by spring tension during installation
- Capable of using on a full variety of lugs and splicers
- Wide base for stability while swedging
- Provides 1400-1800 lbs. pull-out resistance
- Easy to read scale for proper swedging

| Model | Item Code No. | For Installing LENCO Lugs | LENCO Splicer    |
|-------|---------------|---------------------------|------------------|
| 840   | 04040         | L-8 thru L-3040           | S-12 thru S-3040 |



## Hand Held Cable Cutters 9 1/2"



### FEATURES

- Cuts up to 4/0 AWG
- High leverage cutting action
- Hardened steel
- NOT FOR USE on steel or ACSR cable

| Model | Item Code No. | For                 |
|-------|---------------|---------------------|
| LCC95 | 04010         | Up to 4/0 AWG cable |

## Hand Held Cable Cutters 18"

### FEATURES

- High leverage cutting action
- Hardened steel
- NOT FOR USE on steel or ACSR cable

| Model | Item Code No. | For                 |
|-------|---------------|---------------------|
| LCC18 | 04018         | Up to 4/0 AWG cable |





# MACHINE PLUGS & TIG ADAPTERS

*International Dinse Style*



Point of Purchase  
Display Packaging

| Model   | Item Code No. |       |       | Interchangeable with the following models |            |          |              |
|---------|---------------|-------|-------|-------------------------------------------|------------|----------|--------------|
|         | Set           | Black | Red   | Dinse                                     | ESAB/Airco | Lincoln  | M.K. Product |
| LDP-25M | 05289         | 05283 | 05284 | Dix SK 25                                 | 160360895  | K-852-25 | N/A          |
| LDP-50M | 05309         | 05303 | 05304 | Dix SK 50                                 | N/A        | K-852-50 | N/A          |
| LDP-70M | 05319         | 05313 | 05314 | Dix SK 70                                 | 13792513   | K-852-70 | 153-0755     |
| LDP-95M | 05329         | 05323 | 05324 | Dix SK 95                                 | 13792513   | K-852-95 | N/A          |

| Connector Size | Male Plug Dia. | Cable Capacity                             | Type of Cable Connection | Amp Capacity |
|----------------|----------------|--------------------------------------------|--------------------------|--------------|
| All 25         | .355 (9.0mm)   | No. 8 thru No. 4 (10-25mm <sup>2</sup> )   | Single Oval-Point Screw  | 150          |
| All 50         | .508 (12.9mm)  | No. 4 thru No. 1/0 (25-50mm <sup>2</sup> ) | Single Oval-Point Screw  | 250          |
| All 70         | .508 (12.9mm)  | 1/0 thru No. 2/0 (50-70mm <sup>2</sup> )   | Single Oval-Point Screw  | 350          |
| All 95         | .508 (12.9mm)  | 2/0 thru No. 4/0 (70-95mm <sup>2</sup> )   | Double Oval-Point Screw  | 500          |

- Offering 12 *Dinse* type Tig machine plugs to attach most TIG torches to machines equipped with *Dinse* connections.
- Available for both air cooled and water cooled Tig torches.



| No. | Model        | Item Code No. | Tig Torch Model | Male End Dia. | Power Cable Connection               | Barb O.D.                  |
|-----|--------------|---------------|-----------------|---------------|--------------------------------------|----------------------------|
| 1   | LDT-917-F    | 05610         | 9, 17           | .508 (12.9mm) | 3/8-24 (M) Air Cooled                | 1/4-90° w/Boot             |
| 2   | LDTI-917-F   | 05612         | 9, 17           | .508 (12.9mm) | 3/8-24 (M) Air Cooled (in line)      | N/A                        |
| 3   | LDTS-917-F   | 05650         | 9, 17           | .355 (9.0mm)  | 3/8-24 (M) Air Cooled                | 1/4-90° w/Boot             |
| 4   | LDTSI-917-F  | 056501        | 9, 17           | .355 (9.0mm)  | 3/8-24 (M) Air Cooled (in line)      | N/A                        |
| 5   | LDT-24-M     | 05615         | 24              | .508 (12.9mm) | 3/8-24 (F) Air Cooled                | 1/4-90° w/Boot             |
| 6   | LDTI-24M     | 05656         | 24              | .508 (12.9mm) | 3/8-24 (F) Air Cooled                | N/A                        |
| 7   | LDTS-24-M    | 05655         | 24              | .355 (9.0mm)  | 3/8-24 (F) Air Cooled                | 1/4-90° w/Boot             |
| 8   | LDTSI-24-M   | 056551        | 24              | .355 (9.0mm)  | 3/8-24 (F) Air Cooled                | N/A                        |
| 9   | LDT-26-R     | 05620         | 26              | .508 (12.9mm) | 7/8-14 (R.H.) Air Cooled             | 1/4-90° w/Boot             |
| 10  | LDTI-26-R    | 05622         | 26              | .508 (12.9mm) | 7/8-14 (R.H.) Air Cooled (in line)   | N/A                        |
| 11  | LDT-1820-L   | 05625         | 18, 20          | .508 (12.9mm) | 7/8-14 (L.H.) Water Cooled           | 1/4-90° w/Boot             |
| 12  | LDTI-1820-WC | 05627         | 18, 20, 24W     | .508 (12.9mm) | 7/8-14 (L.H.) Water Cooled (in line) | 1/8, 3/16, 1/4-90° w/Boots |

## Gas & Water Hose Connectors

LGH-Series used on the following:

LDT-917-F  
LDT-24-M  
LDT-26-R

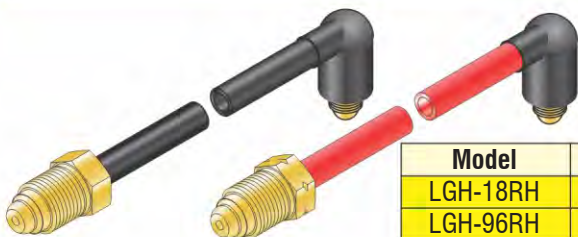
LWH-Series used on the following:

LDT-1820-L

LGH-Series & LWH-Series

Used on the following:

LDTI-1820-WC



| Model    | Item Code No. | Hose Color | Description | Length | Thread Connection |
|----------|---------------|------------|-------------|--------|-------------------|
| LGH-18RH | 09810         | Black      | Gas Hose    | 18"    | 5/8-18 R.H. Nut   |
| LGH-96RH | 09820         | Black      | Gas Hose    | 96"    | 5/8-18 R.H. Nut   |
| LWH-18LH | 09815         | Red        | Water Hose  | 18"    | 5/8-18 L.H. Nut   |
| LWH-96LH | 09825         | Red        | Water Hose  | 96"    | 5/8-18 L.H. Nut   |

Both hoses are nylon braided.



# Tig Machine Adapters

## International Dinse Type

### Dinse Cable & TIG Machine Plug Application

| Power Supply<br>Make & Model                                        | Type of<br>Process | Dinse Cable<br>Connector<br>Male | Dinse TIG Connector Series |             |             |            |              |               |              |
|---------------------------------------------------------------------|--------------------|----------------------------------|----------------------------|-------------|-------------|------------|--------------|---------------|--------------|
|                                                                     |                    |                                  | TIG Torch Models           |             |             |            |              |               |              |
|                                                                     |                    |                                  | Air Cooled                 |             |             |            | Water Cooled |               |              |
|                                                                     |                    |                                  | 24<br>80A                  | 9<br>125A   | 17<br>150A  | 26<br>200A | 24W<br>180A  | 20/25<br>250A | 18<br>350A   |
| <b>Miller®</b>                                                      |                    |                                  |                            |             |             |            |              |               |              |
| CST 250, CST 280                                                    | TIG/Stick          | LDP-50M                          | LDT-24-M                   | LDT-917-F   | LDT-917-F   | LDT-26-R   | LDT-1820-L   | LDT-1820-L    | LDT-1820-L   |
| CST 300, CST 400                                                    | TIG/Stick          | LDP-70M                          | LDT-24-M                   | LDT-917-F   | LDT-917-F   | LDT-26-R   | LDT-1820-L   | LDT-1820-L    | LDT-1820-L   |
| Dynasty 200SD, 200DX, 210, 210DX, 280, 280DX                        | TIG/Stick          | LDP-50M                          | LDT-24-M                   | LDT-917-F   | LDT-917-F   | LDT-26-R   | LDT-1820-L   | LDT-1820-L    | LDT-1820-L   |
| Dynasty DX, 300, 300SD, 300DX, 300LX, 350, 400                      | TIG/Stick          | LDP-70M                          | LDT-24-M                   | LDT-917-F   | LDT-917-F   | LDT-26-R   | LDT-1820-L   | LDT-1820-L    | LDT-1820-L   |
| Econotig                                                            | TIG/Stick          | LDP-50M                          | LDTI-24M                   | LDTI-917-F  | LDTI-917-F  | LDTI-26-R  | LDTI-1820-WC | LDTI-1820-WC  | LDTI-1820-WC |
| Invision 350MPa, 352MPa, 354MP                                      | MIG/TIG/Stick      | LDP-70M                          | LDT-24-M                   | LDT-917-F   | LDT-917-F   | LDT-26-R   | LDT-1820-L   | LDT-1820-L    | LDT-1820-L   |
| Maxstar 150STL, 150STH, 161STL, 160TTH                              | TIG/Stick          | LDP-25M                          | LDTSI-24M                  | LDTSI-917-F | LDTSI-917-F | n/a        | n/a          | n/a           | n/a          |
| Maxstar 200DX, 200LX, 200SD, 200ST, 200STR, 210, 210DX, 210STR, 280 | TIG/Stick          | LDP-50M                          | LDT-24-M                   | LDT-917-F   | LDT-917-F   | LDT-26-R   | LDT-1820-L   | LDT-1820-L    | LDT-1820-L   |
| Maxstar 300, 300SD, 300DX, 300LX, 350, 400                          | TIG/Stick          | LDP-70M                          | LDT-24-M                   | LDT-917-F   | LDT-917-F   | LDT-26-R   | LDT-1820-L   | LDT-1820-L    | LDT-1820-L   |
| Maxstar 85S, 140, 140STR, 150S, 161S                                | TIG/Stick          | LDP-25M                          | LDTS-24M                   | LDTS-917-F  | LDTS-917-F  | n/a        | n/a          | n/a           | n/a          |
| Multimatic 200, 215                                                 | MIG/TIG/Stick      | LDP-25M                          | LDTSI-24-M                 | LDTSI-917-F | LDTSI-917-F | n/a        | n/a          | n/a           | n/a          |
| Pipeworx 350 Fieldpro (w/Dinse)                                     | MIG/TIG/Stick      | LDP-70M                          | LDT-24-M                   | LDT-917-F   | LDT-917-F   | LDT-26-R   | LDT-1820-L   | LDT-1820-L    | LDT-1820-L   |
| Syncrowave 180SD, 200, 210                                          | TIG/Stick          | LDP-50M                          | LDTI-24M                   | LDTI-917-F  | LDTI-917-F  | LDTI-26-R  | LDTI-1820-WC | LDTI-1820-WC  | LDTI-1820-WC |
| Syncrowave 200, 300, 350, 351, 500                                  | TIG/Stick          | n/a                              | n/a                        | n/a         | n/a         | n/a        | n/a          | n/a           | n/a          |
| Syncrowave 250DX, 350LX                                             | TIG/Stick          | LDP-70M                          | LDT-24-M                   | LDT-917-F   | LDT-917-F   | LDT-26-R   | LDT-1820-L   | LDT-1820-L    | LDT-1820-L   |
| XMT304 (w/Dinse), 350 (w/Dinse), 350 OS (w/Dinse), 350MPa (w/Dinse) | MIG/TIG/Stick      | LDP-70M                          | LDT-24-M                   | LDT-917-F   | LDT-917-F   | LDT-26-R   | LDT-1820-L   | LDT-1820-L    | LDT-1820-L   |
| <b>Lincoln®</b>                                                     |                    |                                  |                            |             |             |            |              |               |              |
| Aspect 375                                                          | TIG/Stick          | LDP-70M                          | LDTI-24M                   | LDTI-917-F  | LDTI-917-F  | LDTI-26-R  | LDTI-1820-WC | LDTI-1820-WC  | LDTI-1820-WC |
| Invertec 100-S, V100-S, V130-S, V155-S                              | TIG/Stick          | LDP-25M                          | LDTS-24M                   | LDTS-917-F  | LDTS-917-F  | n/a        | n/a          | n/a           | n/a          |
| Invertec V160-S, V200-I, V250-S                                     | TIG/Stick          | LDP-50M                          | LDT-24-M                   | LDT-917-F   | LDT-917-F   | LDT-26-R   | LDT-1820-L   | LDT-1820-L    | LDT-1820-L   |
| Invertec V160-T, V200-T, V205-T                                     | TIG/Stick          | LDP-50M                          | LDTI-24M                   | LDTI-917-F  | LDTI-917-F  | LDTI-26-R  | LDTI-1820-WC | LDTI-1820-WC  | LDTI-1820-WC |
| Invertec V200-PRO                                                   | MIG/TIG/Stick      | LDP-50M                          | LDT-24-M                   | LDT-917-F   | LDT-917-F   | LDT-26-R   | LDT-1820-L   | LDT-1820-L    | LDT-1820-L   |
| Invertec V275-S, V300-I                                             | TIG/Stick          | LDP-70M                          | LDT-24-M                   | LDT-917-F   | LDT-917-F   | LDT-26-R   | LDT-1820-L   | LDT-1820-L    | LDT-1820-L   |
| Invertec V300-PRO**, V350-PRO**                                     | MIG/TIG/Stick      | LDP-70M                          | LDTI-24M                   | LDTI-917-F  | LDTI-917-F  | LDTI-26-R  | LDTI-1820-WC | LDTI-1820-WC  | LDTI-1820-WC |
| Invertec V310-T, V311-T                                             | TIG/Stick          | LDP-70M                          | LDTI-24M                   | LDTI-917-F  | LDTI-917-F  | LDTI-26-R  | LDTI-1820-WC | LDTI-1820-WC  | LDTI-1820-WC |
| Power MIG 210MP                                                     | MIG/TIG/Stick      | LDP-50M                          | LDT-24-M                   | LDT-917-F   | LDT-917-F   | LDT-26-R   | LDT-1820-L   | LDT-1820-L    | LDT-1820-L   |
| Power Wave 355 & 355M                                               | MIG/TIG/Stick      | LDP-70M                          | LDT-24-M                   | LDT-917-F   | LDT-917-F   | LDT-26-R   | LDT-1820-L   | LDT-1820-L    | LDT-1820-L   |
| Precision TIG 185, 225                                              | TIG/Stick          | LDP-50M                          | LDTI-24M                   | LDTI-917-F  | LDTI-917-F  | LDTI-26-R  | LDTI-1820-WC | LDTI-1820-WC  | LDTI-1820-WC |
| Precision TIG 275, 375                                              | TIG/Stick          | n/a                              | n/a                        | n/a         | n/a         | n/a        | n/a          | n/a           | n/a          |
| Square Wave TIG 175, 175-PRO, 200, 225, 275                         | TIG/Stick          | LDP-50M                          | LDTI-24M                   | LDTI-917-F  | LDTI-917-F  | LDTI-26-R  | LDTI-1820-WC | LDTI-1820-WC  | LDTI-1820-WC |
| Square Wave TIG 255, 355                                            | TIG/Stick          | n/a                              | n/a                        | n/a         | n/a         | n/a        | n/a          | n/a           | n/a          |
| <b>Esab®</b>                                                        |                    |                                  |                            |             |             |            |              |               |              |
| Aristo MIG 4004i Pulse                                              | MIG/TIG/Stick      | LDP-50M                          | LDT-24-M                   | LDT-917-F   | LDT-917-F   | LDT-26-R   | LDT-1820-L   | LDT-1820-L    | LDT-1820-L   |
| Aristo MIG 5000i, U5000i                                            | MIG/TIG/Stick      | LDP-70M                          | LDT-24-M                   | LDT-917-F   | LDT-917-F   | LDT-26-R   | LDT-1820-L   | LDT-1820-L    | LDT-1820-L   |
| Caddy Arc 151i, 152i, 201i                                          | TIG/Stick          | LDP-50M                          | LDT-24-M                   | LDT-917-F   | LDT-917-F   | LDT-26-R   | LDT-1820-L   | LDT-1820-L    | LDT-1820-L   |
| Caddy TIG 1500i, 2200i, 2200i AC/DC                                 | TIG/Stick          | LDP-50M                          | LDT-24-M                   | LDT-917-F   | LDT-917-F   | LDT-26-R   | LDT-1820-L   | LDT-1820-L    | LDT-1820-L   |
| ES 95i                                                              | TIG/Stick          | LDP-25M                          | LDTS-24M                   | LDTS-917-F  | LDTS-917-F  | n/a        | n/a          | n/a           | n/a          |
| ET 141i AC/DC, ET 186i AC/DC, ET 201i DC, ET 220i AC/DC             | TIG/Stick          | LDP-50M                          | LDT-24-M                   | LDT-917-F   | LDT-917-F   | LDT-26-R   | LDT-1820-L   | LDT-1820-L    | LDT-1820-L   |
| ET 301i AC/DC                                                       | TIG/Stick          | LDP-70M                          | LDT-24-M                   | LDT-917-F   | LDT-917-F   | LDT-26-R   | LDT-1820-L   | LDT-1820-L    | LDT-1820-L   |
| Fabricator 141i                                                     | MIG/TIG/Stick      | LDP-25M                          | LDTS-24M                   | LDTS-917-F  | LDTS-917-F  | n/a        | n/a          | n/a           | n/a          |
| Fabricator 211i, 252i                                               | MIG/TIG/Stick      | LDP-50M                          | LDT-24-M                   | LDT-917-F   | LDT-917-F   | LDT-26-R   | LDT-1820-L   | LDT-1820-L    | LDT-1820-L   |
| Heliarc 161 AC/DC                                                   | TIG/Stick          | LDP-50M                          | LDT-24-M                   | LDT-917-F   | LDT-917-F   | LDT-26-R   | LDT-1820-L   | LDT-1820-L    | LDT-1820-L   |
| Heliarc 281i AC/DC, 353i AC/DC                                      | TIG/Stick          | LDP-70M                          | LDT-24-M                   | LDT-917-F   | LDT-917-F   | LDT-26-R   | LDT-1820-L   | LDT-1820-L    | LDT-1820-L   |
| Miniarc 161LTS                                                      | TIG/Stick          | LDP-25M                          | LDTS-24M                   | LDTS-917-F  | LDTS-917-F  | n/a        | n/a          | n/a           | n/a          |
| MTS-3500i                                                           | MIG/TIG/Stick      | LDP-70M                          | LDT-24-M                   | LDT-917-F   | LDT-917-F   | LDT-26-R   | LDT-1820-L   | LDT-1820-L    | LDT-1820-L   |
| Origo Arc 410c, 650c                                                | TIG/Stick          | LDP-70M                          | LDT-24-M                   | LDT-917-F   | LDT-917-F   | LDT-26-R   | LDT-1820-L   | LDT-1820-L    | LDT-1820-L   |
| Origo MIG 4000c/cw, 6502c/cw, 652c                                  | MIG/TIG/Stick      | LDP-70M                          | LDT-24-M                   | LDT-917-F   | LDT-917-F   | LDT-26-R   | LDT-1820-L   | LDT-1820-L    | LDT-1820-L   |
| Rebel EMP/EMS 215ic, EMP/EMS 235ic                                  | MIG/TIG/Stick      | LDP-50M                          | LDT-24-M                   | LDT-917-F   | LDT-917-F   | LDT-26-R   | LDT-1820-L   | LDT-1820-L    | LDT-1820-L   |
| Renegade ES 300i                                                    | TIG/Stick          | LDP-50M                          | LDT-24-M                   | LDT-917-F   | LDT-917-F   | LDT-26-R   | LDT-1820-L   | LDT-1820-L    | LDT-1820-L   |
| Warrior 400i MV CC/CV                                               | TIG/Stick          | LDP-70M                          | LDT-24-M                   | LDT-917-F   | LDT-917-F   | LDT-26-R   | LDT-1820-L   | LDT-1820-L    | LDT-1820-L   |
| <b>Thermal Arc®</b>                                                 |                    |                                  |                            |             |             |            |              |               |              |
| 161S                                                                | TIG/Stick          | LDP-25M                          | LDTS-24M                   | LDTS-917-F  | LDTS-917-F  | n/a        | n/a          | n/a           | n/a          |
| <b>Tweco®</b>                                                       |                    |                                  |                            |             |             |            |              |               |              |
| Arcmaster 220 AC/DC                                                 | TIG/Stick          | LDP-50M                          | LDT-24-M                   | LDT-917-F   | LDT-917-F   | LDT-26-R   | LDT-1820-L   | LDT-1820-L    | LDT-1820-L   |
| Arcmaster 301 AC/DC, 401S                                           | TIG/Stick          | LDP-70M                          | LDT-24-M                   | LDT-917-F   | LDT-917-F   | LDT-26-R   | LDT-1820-L   | LDT-1820-L    | LDT-1820-L   |
| Arcmaster 401MST                                                    | MIG/TIG/Stick      | LDP-70M                          | LDT-24-M                   | LDT-917-F   | LDT-917-F   | LDT-26-R   | LDT-1820-L   | LDT-1820-L    | LDT-1820-L   |

n/a = not applicable

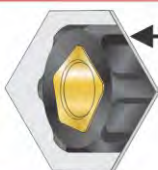
\*\* Note Invertec V350-PRO standard LDT series adapters. With optional solenoid valve uses LDTI series adapters.



# Adapters, Receptacles, Connectors & Output Terminals



LDA



Mirror for  
back view



LDA-2510



LDA-513

| Model     | Item Code No. |        |        | Male End Diameter | Adapter Configuration                                                       | Interchangeable with Miller® |
|-----------|---------------|--------|--------|-------------------|-----------------------------------------------------------------------------|------------------------------|
|           | Set           | Black  | Red    |                   |                                                                             |                              |
| LDA       | 05335         | 05330  | 05331  | .508 (12.9mm)     | Adapter (Dinse LDP-50-95 Male/LENCO LC-40/LC-40HD Female)                   | 042465                       |
| LDA-10    | 05334         | 05332  | 05333  | .508 (12.9mm)     | Adapter (Dinse LDP-50-95 Male/LENCO LC-10 Female)                           |                              |
| LDA-CAM   | -             | 053304 | 053314 | .508 (12.9mm)     | Adapter (Dinse LDP-50-95 Male/CAM-LOCK Female)                              | 042466                       |
| LDA-2510  | 05339         | 05336  | 05337  | .355 (9.0mm)      | Adapter (Dinse LDP-25 Male/LENCO LC-10 Female)                              |                              |
| LDA-2540  | -             | 053364 | 053374 | .355 (9.0mm)      | Adapter (Dinse LDP-25 Male/LENCO LC-40 Female)                              |                              |
| LDA-2550  | -             | 05472  | -      | .355 (9.0mm)      | Adapter (Dinse LDP-25 Male/Dinse LDC-50/70/95 Female)                       |                              |
| LDA-25CAM | -             | 053305 | 053315 | .355 (9.0mm)      | Adapter (Dinse LDP-25 Male/CAM-LOCK Female)(for CAM-LOCK E1012 series only) |                              |
| LA-1040   | -             | 05075  | 05076  | LC-10 Male        | Adapter (LC-10 Male/LC-40 Female)                                           |                              |
| LDA-4050  | -             | 05470  | 05471  | LC-40 Male        | Adapter (LC-40 Male/Dinse LDC-50-95 Female)                                 | 195116                       |
| LDA-5025  | -             | 05473  | -      | .508 (12.9mm)     | Adapter (Dinse LDP-50/70/95 Male/Dinse LDC-25 Female)                       |                              |
| LDA-513   | -             | 05475  | -      | .508 (12.9mm)     | Brass Adapter (Dinse LDP-50-95 Male/1/2-13 Male Thread)                     |                              |
| LA-40CAM  | -             | 05480  | -      | LC-40 Male        | Adapter (LC-40 Male/CAM-LOCK Female)                                        |                              |
| LA-CAM40  | -             | 05485  | -      | CAM-LOCK Male     | Adapter (CAM-LOCK Male/LC-40 Female)(for CAM-LOCK E1012 series only)        |                              |



LDPM-25



LDPM-50



LDPM-50-M

| Model     | Item Code No. |        | Description               | Male End Diameter | Fits Cable Connector | Interchangeable with Miller® |
|-----------|---------------|--------|---------------------------|-------------------|----------------------|------------------------------|
|           | Black         | Red    |                           |                   |                      |                              |
| LDPM-25   | 08105         | 081051 | Panel Receptacle (Female) | .355 (9.0mm)      | LDP-25M              | N/A                          |
| LDPM-50   | 08106         | 081061 | Panel Receptacle (Female) | .508 (12.9mm)     | LDP-50/70/95M        | 129525 (Black)               |
| LDPM-50-M | 08108         | N/A    | Panel Receptacle (Male)   | .508 (12.9mm)     | LDC-50/70/95 Female  | 143419 (Black)               |
| LCPM-40   | 08104         | N/A    | Panel Receptacle (Female) | N/A               | LC-40/LC-40HD Male   | N/A                          |

## Insulated Stud Connectors

### MODELS LSC-10, LSC-40, and LDSC-50

Designed for power sources having stud type terminals. This model offers insulation for those having this type terminal.

- A better connection
- Completely insulated
- A threaded, face-to-face contact with the power source terminal
- Use with source LENCO cable connector LC-10, LC-40, and LDP-50/70/95



### MODELS LSC-40-H and LDSC-50-H

Designed for power sources having a solid bus bar. Place cup-type insulation over the stud terminal and secure connector tightly in place.

- Face of brass recessed minimal chance of shorting out
- Use with LC-40 or LC-40HD male connector
- Use the LC-1040 for small cable
- Use the LDSC-50-H with the LDC-50/70/95 male



| Model   | Item Code No. |       | Used with LENCO Connector | Stud Thread | Model     | Item Code No. |       | Used with LENCO Connector | Stud Thread |
|---------|---------------|-------|---------------------------|-------------|-----------|---------------|-------|---------------------------|-------------|
|         | Black         | Red   |                           |             |           | Black         | Red   |                           |             |
| LSC-10  | 08050         | 08051 | LC-10 Male                | 1/2 - 13    | LSC-40-H  | 08070         | 08071 | LC-40 or LC-40HD Male     | 1/2 - 13    |
| LSC-40  | 08060         | 08061 | LC-40 or LC-40HD Male     | 1/2 - 13    | H         | 05263         | 05264 | Insulator Cup             |             |
| LDSC-50 | 08150         | 08151 | LDC-50/70/95 Male         | 1/2 - 13    | LDSC-50-H | 08155         | 08156 | LDC-50/70/95 Male         | 1/2 - 13    |

## Power Output Terminals

Power output terminals suitable for replacement on Miller® and Lincoln® power sources.



TPO



TPO



LSA



LSA-1

| Model | Item Code No.     |                   | Description                                          | Stud Thread |
|-------|-------------------|-------------------|------------------------------------------------------|-------------|
|       | Black             | Red               |                                                      |             |
| TPO   | 08100<br>(039046) | 08101<br>(039047) | Terminal, Power Output                               | 1/2 - 13    |
| LSA   | 08210             |                   | Lincoln Stud Assembly w/Hardware (T14166-9 [M13900]) | 1/2 - 13    |
| LSA-1 | 08211             |                   | Stud Assembly Complete (S11125-1)                    | 1/2 - 13    |



# CHIPPING HAMMERS

*A Complete Line of Weld Cleaning Tools for Fast, Clean, Easy Slag Removal*

## Spring Handle - Steel Shaft



LG-1  
LG-2



LHC-1  
LHC-2



LH-1  
LH-2

- Wire Spring Handle
- Drop Forged, Heat-Treated Heads
- Welded-on Heads Can't Come Loose

| Model | Item Code No. | Packaging             | Description             | Length      | Weight        |
|-------|---------------|-----------------------|-------------------------|-------------|---------------|
| LH-1  | 09010         | Individually Boxed    | Chisel and Pick         | 10" (254mm) | 16 oz. (450g) |
| LG-1  | 09020         | Individually Boxed    | Chisel and Cross Chisel | 10" (254mm) | 17 oz. (480g) |
| LHC-1 | 09030         | Individually Boxed    | Cross Chisel and Pick   | 10" (254mm) | 16 oz. (450g) |
| LH-2  | 09140         | Bulk Packed 12 Pieces | Chisel and Pick         | 10" (254mm) | 16 oz. (450g) |
| LG-2  | 09130         | Bulk Packed 12 Pieces | Chisel and Cross Chisel | 10" (254mm) | 17 oz. (480g) |
| LHC-2 | 09150         | Bulk Packed 12 Pieces | Cross Chisel and Pick   | 10" (254mm) | 16 oz. (450g) |

## Wood Handle - Steel Shaft



LGW-1



LHCW-1



LHW-1

- Wood Handle Preferred by Many Welders
- Drop Forged, Heat-Treated Heads
- Heads Welded to Steel Shafts
- Individually Boxed

| Model  | Item Code No. | Description             | Length        | Weight        |
|--------|---------------|-------------------------|---------------|---------------|
| LHW-1  | 09040         | Chisel and Pick         | 10.5" (254mm) | 14 oz. (393g) |
| LHCW-1 | 09050         | Cross Chisel and Pick   | 10.5" (254mm) | 14 oz. (393g) |
| LGW-1  | 09060         | Chisel and Cross Chisel | 10.5" (254mm) | 15 oz. (423g) |



# CHIPPING HAMMERS

## Hickory Wood Handles



Hickory handles are unexcelled for toughness and resilience. Drop forged, heat-treated heads attached to handle with steel and wood wedges

| Model | Item Code No. | Description             | Length        | Weight        |
|-------|---------------|-------------------------|---------------|---------------|
| LWHH  | 09100         | Chisel and Pick         | 11.5" (305mm) | 18 oz. (513g) |
| LWHC  | 09110         | Cross Chisel and Pick   | 11.5" (305mm) | 18 oz. (513g) |
| LWHG  | 09090         | Chisel and Cross Chisel | 11.5" (305mm) | 19 oz. (538g) |

Bulk packed 12 per box only

## "BIG MIKE" Hammer



This well-balanced hammer has an extra long 8" (203mm) head with a 1-3/16" (30.15mm) wide blade, good for those hard-to-get-at places.

| Model | Item Code No. | Description | Length        | Weight        |
|-------|---------------|-------------|---------------|---------------|
| LWHCM | 09120         | "Big Mike"  | 11.5" (305mm) | 19 oz. (538g) |

Bulk packed 12 per box only

## REPLACEMENT HANDLE

| Model  | Item Code No. | Description                            |
|--------|---------------|----------------------------------------|
| LHR-12 | 09310         | Replacement Wood Handle for all Models |

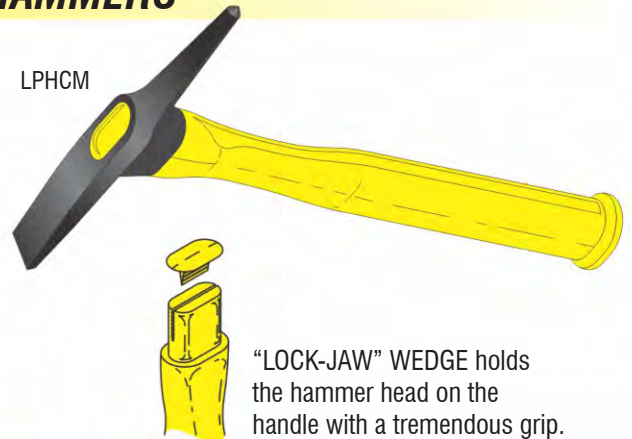
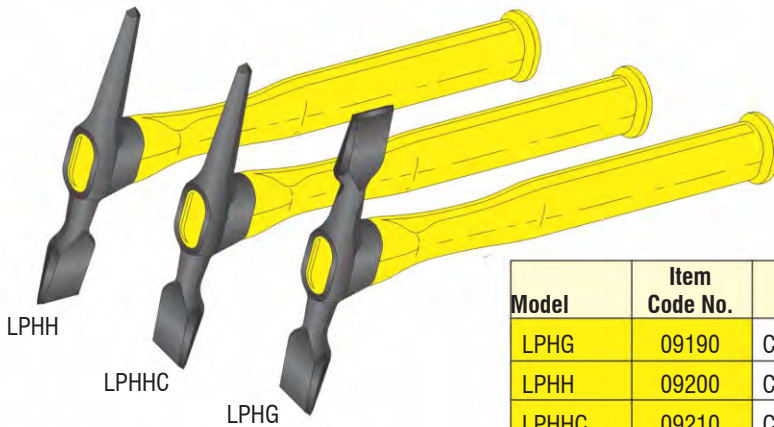


# CHIPPING HAMMERS

## PLASTIC HANDLE HAMMERS

Molded high impact thermoplastic handles are bright yellow with an easy-to-find look. The high impact resistance of these molded handles outlasts wood handles.

- Reduced Impact Sting
- Safety Yellow Color
- Ringed Handle End Raises Handle for Easy Pick Up
- Splinter Free
- Forged Steel Heads



"LOCK-JAW" WEDGE holds the hammer head on the handle with a tremendous grip.

| Model | Item Code No. | Description             | Length         | Weight        |
|-------|---------------|-------------------------|----------------|---------------|
| LPHG  | 09190         | Chisel and Cross Chisel | 11.75" (305mm) | 19 oz. (538g) |
| LPHH  | 09200         | Chisel and Pick         | 11.75" (305mm) | 18 oz. (513g) |
| LPHHC | 09210         | Cross Chisel and Pick   | 11.75" (305mm) | 18 oz. (513g) |
| LPHCM | 09220         | Cross Chisel and Pick   | 11.75" (305mm) | 19 oz. (538g) |

### REPLACEMENT HANDLE

*Bulk packed 12 per box only*

| Model | Item Code No. | Description                                 |
|-------|---------------|---------------------------------------------|
| LHRP  | 09250         | Replacement Plastic Handle for above Models |

## Hammer & Brush Combinations

The combination hammer & brush offers several advantages to the busy welder. Hammer and brush are always together; just a quick flip from chipping to brushing. Individually boxed.



LA-1

### MODEL LA-1

Steel spring handle, steel shaft welded to forged head. Top quality steel scratch brush - replaceable

### MODEL LAW-1

Formed wood handle. Steel shaft welded to forged head. Top quality steel scratch brush-replaceable.



LAW-1

| Model | Item Code No. | Description                    | Length       | Weight       |
|-------|---------------|--------------------------------|--------------|--------------|
| LA-1  | 09070         | Hammer & Brush w/Spring Handle | 11¼" (286mm) | 19 oz.(538g) |
| LAW-1 | 09080         | Hammer & Brush w/Wood Handle   | 11¼" (286mm) | 17 oz.(480g) |

### REPLACEMENT STEEL BRUSH AND RETAINER SPRING

| Model | Item Code No. | Description                                                   |
|-------|---------------|---------------------------------------------------------------|
| LWB   | 09330         | Brush For Models LA-1 and LAW-1 Combination Hammers           |
| LBRS  | 09340         | Retainer Spring For Models LA-1 and LAW-1 Combination Hammers |



# UNIVERSAL CIRCLE BURNER & WELDING BLANKETS

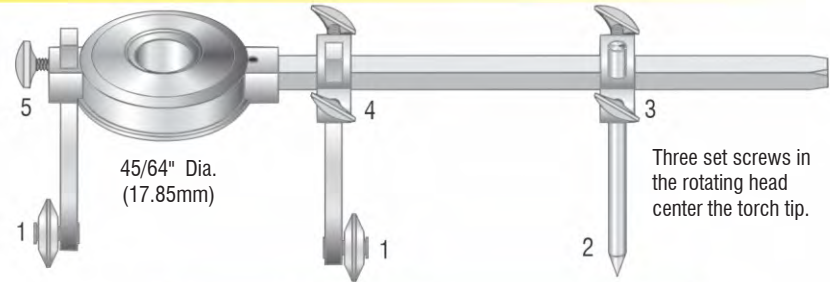
## UNIVERSAL CIRCLE BURNER

- Cut circles or straight lines with any oxyfuel cutting torch
- Equipped with two wheels and centering pin

This handy tool is ideal for shop or maintenance department that must occasionally cut circles or straight lines but where expensive equipment is not practical.

### MAGNETIC HOLDING BASE for CB-20 or CB-30 Circle Burner

Magnet with 16 lbs. (7.3kg) direct pull holds centering pin in place, frees your hand and allows you to focus your attention on the torch. (**Caution:** Magnet should not be used when cutting circle with less than a 6" radius.)



Three set screws in the rotating head center the torch tip.

| Item No. | Item Code No. | Description             |
|----------|---------------|-------------------------|
| 1.       | 03012         | Wheel Assembly          |
| 2.       | 03013         | Center Pin              |
| 3.       | 03014         | Guide Block-Round Hole  |
| 4.       | 03015         | Guide Block-Square Hole |
| 5.       | 03016         | Thumb Screw             |

MODEL  
CBM-2030



| Model    | Item Code No. | Description                           | Maximum Diameter Circle | Minimum Diameter Circle |
|----------|---------------|---------------------------------------|-------------------------|-------------------------|
| CB-20    | 03010         | LENCO Circle Burner                   | 18" (457mm)             | 3½" (89mm)              |
| CB-30    | 03020         | LENCO Circle Burner                   | 30" (762mm)             | 3½" (89mm)              |
| CBM-2030 | 03030         | Magnetic Base Only for CB-20 or CB-30 | ---                     | ---                     |

## WELDING BLANKETS



**Non-Coated**  
1000°F (525°C)

100% Fiberglass

Available with or without  
Grommets 24" Approx.



| Model        | Item Code No. | Description - Finished size                  | Grommet | Color  | Material Weight |
|--------------|---------------|----------------------------------------------|---------|--------|-----------------|
| LWB-66-30    | 08810         | Blanket - 5' - 8" X 5' - 8" Kevlar Stitching | Yes     | Golden | 30 oz.          |
| LWB-66-18    | 08811         | Blanket - 5' - 8" X 5' - 8" Kevlar Stitching | Yes     | Golden | 18 oz.          |
| LWB-66-30-NG | 08812         | Blanket - 5' - 8" X 5' - 8" Kevlar Stitching | No      | Golden | 30 oz.          |
| LWB-68-30    | 08820         | Blanket - 5' - 8" X 7' - 8" Kevlar Stitching | Yes     | Golden | 30 oz.          |
| LWB-68-18    | 08821         | Blanket - 5' - 8" X 7' - 8" Kevlar Stitching | Yes     | Golden | 18 oz.          |
| LWB-68-30-NG | 08822         | Blanket - 5' - 8" X 7' - 8" Kevlar Stitching | No      | Golden | 30 oz.          |
| LWR-5150-13  | 08840         | Blanket - 5' X 150'                          | No      | Golden | 13 oz.          |
| LWR-5150-18  | 08845         | Blanket - 5' X 150'                          | No      | Golden | 18 oz.          |
| LWR-6150-30  | 08850         | Blanket - 6' X 150'                          | No      | Golden | 30 oz.          |
| LWM-22       | 08870         | Mat 2' x 2'                                  | No      | Golden | —               |
| LWM-24       | 08875         | Mat 2' x 4'                                  | No      | Golden | —               |

## WELDING PROTECTION PADS

- Coated fiberglass covered mat
- Ceramic fiber filling
- Withstands 1200° F



LWM-22



LWM-24





# ELECTRODE STABILIZING ROD OVENS



**LRO-10**



**LRO-15 W/T**



**LRO-50**



**LRO-450**

| SPECIFICATIONS         | LRO-10                  | LRO-15 W/T                    | LRO-50                  | LRO-450-120                   | LRO-450-230*                  |
|------------------------|-------------------------|-------------------------------|-------------------------|-------------------------------|-------------------------------|
| Model                  | LRO-10-120              | LRO-15-120 W/T                | LRO-50-120              | LRO-450-120                   | LRO-450-230                   |
| Item Code No.          | 01910                   | 01916                         | 01950                   | 01970                         | 01971                         |
| Voltage - Single Phase | 120V 50/60hz<br>AC Only | 120V 50/60hz<br>AC Only       | 120V 50/60hz<br>AC Only | 120V 50/60hz<br>AC Only       | 230V 50/60hz<br>AC Only       |
| Capacity               | 10 lbs.                 | 15 lbs.                       | 50 lbs.                 | 450 lbs.                      | 450 lbs.                      |
| Size Electrode Handled | 10" thru 18"            | 10" thru 18"                  | 10" thru 18"            | 10" thru 18"                  | 10" thru 18"                  |
| Sealed Heating Element | 80 Watts                | 150 Watts                     | 350 Watts               | 1000 Watts                    | 1000 Watts                    |
| Wiring                 | 5' Heavy Duty Cord      | 5' Heavy Duty Cord            | 5' Heavy Duty Cord      | 5' Heavy Duty Cord            | 5' Heavy Duty Cord            |
| Pilot Light            | Yes                     | Yes                           | Yes                     | Yes                           | Yes                           |
| Temp Range             | 300° F Preset           | 100° F - 300° F<br>Adjustable | 300° F Preset           | 150° F - 550° F<br>Adjustable | 150° F - 550° F<br>Adjustable |
| Thermostat             | Preset                  | Adjustable                    | Preset                  | Adjustable                    | Adjustable                    |
| Insulation             | 1" Ceramic Fiber        | 1" Ceramic Fiber              | 1" Ceramic Fiber        | 3" Ceramic Fiber              | 3" Ceramic Fiber              |
| Chamber Size           | 3" Dia. X 18"           | 3.5" X 3.5" X 18"             | 6" X 6" X 18"           | 22" Dia. X 19.5"              | 22" Dia. X 19.5"              |
| Exterior Dim.          | 5" Dia. X 25"           | 6.5" X 6.5" X 26"             | 9.5" X 9.5" X 24"       | 27" X 24" X 28"               | 27" X 24" X 28"               |
| Net Weight             | 9.2 lbs.                | 15.3 lbs.                     | 28.8 lbs.               | 119 lbs.                      | 119 lbs.                      |

\*NOTE - 230 VAC units are not supplied with plug

## ROD OVEN REPLACEMENT PARTS

| ROD OVEN            | LRO-10 | LRO-15 W/T | LRO-50 | LRO-450-120 | LRO-450-230* |
|---------------------|--------|------------|--------|-------------|--------------|
| Pilot Light         | 019231 | 019231     | 019231 | 019231      | 019231       |
| Basket & Handle     | 01924  | N/A        | N/A    | N/A         | N/A          |
| Retaining Clip      | 01925  | N/A        | N/A    | N/A         | N/A          |
| Receptacle          | 01929  | N/A        | N/A    | N/A         | N/A          |
| Thermostat          | 019731 | N/A        | 019731 | 01973       | 01973        |
| Heating Element     | N/A    | N/A        | N/A    | 01975       | 019751       |
| Handle & Latch      | N/A    | N/A        | N/A    | 01976       | 01976        |
| Latch Assembly      | N/A    | N/A        | 01977  | N/A         | N/A          |
| Power Cord 6'       | 019781 | 019781     | N/A    | N/A         | N/A          |
| Power Cord w/o Plug | N/A    | N/A        | N/A    | 01979       | 01979        |



# RESISTANCE SPOT WELDERS

## PANELMASTER

The LENCO PANELMASTER combines durability and functionality, making it a cost effective, workhorse welder for today's collision repair market. With fully liquid cooled welding leads and a newly designed ultra efficient transformer, the PANELMASTER delivers 8000 amps of welding power dependably and consistently. Simple, user friendly operation with single dial weld adjustment takes all the guess work out, saving valuable time and increasing profits. Also included with the PANELMASTER are a single side welding lead assembly, 14" electrode arms, and wheelhouse electrodes for difficult to reach areas.

- Generates 8,000 amps
- Clamping force of 550 lbs.
- Maximum welding capacity of 3 pc. 18 ga.
- Mounted on easy movable cart
- Has one sided spot welding gun
- 14" long reach arms
- Wheelhouse electrode arms
- Primary voltage is 208/230 single phase 50/60hz. 60 amps
- Shipping weight 285 lbs.
- 25' power cable



| Item Code No. | Description                   |
|---------------|-------------------------------|
| 20947-B       | 14" electrode arms - included |



| Item Code No. | Description                          |
|---------------|--------------------------------------|
| 20946         | Wheelhouse electrode arms - included |



| Model   | Item Code No. | Description                            | Primary Voltage             | KVA Rating | Line Fuse | Size                  | Power Input Cable | Maximum Welding Capacity | Duty Cycle | Shipping Weight |
|---------|---------------|----------------------------------------|-----------------------------|------------|-----------|-----------------------|-------------------|--------------------------|------------|-----------------|
| LPM-8   | 20610         | PANELMASTER                            | 208/230 VAC<br>Single Phase | 8          | 60 Amp    | 45"H x<br>23"W x 25"D | 25'               | 3 pc. 18 ga. sq. gun     | 50%        | 300 lbs.        |
| B-144   | 26144         | Welding tips - standard arms (pkg 2)   |                             |            |           |                       |                   |                          |            |                 |
| B-143   | 26143         | Welding tips - long reach arms (pkg 2) |                             |            |           |                       |                   |                          |            |                 |
| LAS-415 | 23415         | Coolant - 1 gallon                     |                             |            |           |                       |                   |                          |            |                 |



# RESISTANCE SPOT WELDERS

## The LENCOSPOT® MARK II®

The Mark II welder makes factory type spot welds in the shop. Simple to operate by pressing the two electrodes against the work and pressing the trigger. Two spot welds are made at one time from a single side. The mark II is simple, efficient, and can be used for a variety of light duty sheet metal applications.

- Time of welds is automatically controlled by solid state electronics
- Protected control panel
- On/Off indicating switch
- Maximum welding capacity is 20 ga. auto body steel
- Tool storage space
- Primary voltage is 230 single phase 50/60 Hz, 50 amp or 480 single phase 50/60 Hz, 30 amp
- 50' power cable on 230V models.

| Model   | Item Code No. | Voltage | Shipping Weight |
|---------|---------------|---------|-----------------|
| L-4000  | 20400         | 230     | 110 lbs.        |
| L-4480* | 20480         | 480     | 97 lbs.         |

\*w/o power cable



QPX-20  
Optional



L-950  
Optional

### Replacement tips

| Model | Item Code No. | Description                    |
|-------|---------------|--------------------------------|
| A-144 | 21050         | Regular welding tips (pkg 2)   |
| A-145 | 21040         | Drip rail welding tips (pkg 2) |

### OPTIONAL Accessories

| Model  | Item Code No. | Description                                   |
|--------|---------------|-----------------------------------------------|
| QPX-20 | 27420         | Quick Pull dent pulling attachment            |
| L-950  | 27001         | Uni-Spot III squeeze type weld cable assembly |

## LENCOPULL Portable Dent Pulling Systems

Lenco dent pulling systems allow for any type of pull in any situation. Just weld the star tip to the panel by pressing the trigger, pull, and twist to remove. No more draw pins to cut and grind, saving valuable time and money. The systems have their own specially designed transformers and are available in 120 or 230 VAC.

- Star tip welds directly to the panel
- Built on slide hammer for one step operation
- Includes heat shrinking tip
- 7' welding and 7' ground cable leads
- 25' power cable
- Shipping weight is 64 lbs.

| Model   | Item Code No. | Voltage          | Amperage Requirement |
|---------|---------------|------------------|----------------------|
| LP-2000 | 20720         | 230 Single Phase | 20 Amps              |
| LP-2000 | 20820         | 120 Single Phase | 20 Amps              |

### Replacement tips

| Model  | Item Code No. | Description               |
|--------|---------------|---------------------------|
| QP-451 | 27451         | Star tips (package of 10) |

### OPTIONAL Accessories

| Model   | Item Code No. | Description                      |
|---------|---------------|----------------------------------|
| A-2000  | 22150         | Service cart                     |
| QC-469  | 27469         | Quick claw kit                   |
| SPK-102 | 28916         | Welding tip-long studs           |
| A-202   | 21100         | Welding tip-slotted              |
| SPK-103 | 28917         | Welding tip-mold rivet           |
| A-200   | 21080         | Welding tip-hollow, stud welding |

## LP-2000



## Electrode Holders



| MODEL     | ITEM CODE NO. | AMPERAGE |
|-----------|---------------|----------|
| ARC-532   | 041320        | 200      |
| ARC-316   | 041330        | 250      |
| ARC-732   | 041340        | 300      |
| ARC-T-400 | 041291        | 400      |
| ARC-T-600 | 041290        | 600      |



### ARC FORCE REPLACEMENT PARTS

| ELECTRODE HOLDER       | ARC-532 | ARC-316 | ARC-732 |
|------------------------|---------|---------|---------|
| Tip Insulator w/Screws | 041321  | 041321  | 041341  |
| Spring Set             | 041322  | 041332  | 041332  |

Replacement Head for ARC-T-400 (Item code no. 041294)

Replacement Head for ARC-T-600 (Item code no. 041295)

## Economy Ground Clamps

**ARC-S200**



**ARC-S300**



**ARC-S500**



| MODEL    | ITEM CODE NO. | AMP CAPACITY |
|----------|---------------|--------------|
| ARC-S200 | 042000        | 200          |
| ARC-S300 | 042040        | 300          |
| ARC-S500 | 042050        | 500          |

## Flat Ground Clamps

**ARC-F200**



**ARC-F300**



**ARC-F500**



| MODEL    | ITEM CODE NO. | AMP CAPACITY |
|----------|---------------|--------------|
| ARC-F200 | 042010        | 200          |
| ARC-F300 | 042020        | 300          |
| ARC-F500 | 042030        | 500          |

## Pipe Ground Clamps

**ARC-G200**



**ARC-G300**



**ARC-G500**



| MODEL    | ITEM CODE NO. | AMP CAPACITY |
|----------|---------------|--------------|
| ARC-G200 | 042011        | 200          |
| ARC-G300 | 042021        | 300          |
| ARC-G500 | 042031        | 500          |

## Cable Connectors

### ARC-1MPC



### ARC-2MPC



### ARC-4MPC



| MODEL       | ITEM CODE NO. | DESCRIPTION                |
|-------------|---------------|----------------------------|
| ARC-1MPC    | 045140        | 250 Amp #4 thru 1/0        |
| ARC-2MPC    | 045150        | 350 Amp 1/0 thru 2/0       |
| ARC-4MPC    | 045160        | 500 Amp 3/0 thru 4/0       |
| ARC-2-1-MPC | 045170        | Whip Connector #4 thru 1/0 |

### ARC-2-1-MPC



## International Dinse Type Machine Plugs

| MODEL    | ITEM CODE NO. | AMPS | CABLE        |
|----------|---------------|------|--------------|
| ARC-M25* | 045423        | 200  | #8 thru #4   |
| ARC-M50* | 045433        | 300  | #4 thru 1/0  |
| ARC-M70* | 045443        | 400  | 1/0 thru 2/0 |
| ARC-M95* | 045453        | 500  | 2/0 thru 4/0 |

*\*Need to order in multiples of two.*

### ARC-M25



### ARC-M70



### ARC-M50



### ARC-M95



## Hammer On Lugs and Splicers

### ARC-HL42



### ARC-HS42



### ARC-HL1020



### ARC-HL3040



| MODEL      | ITEM CODE NO. | DESCRIPTION          |
|------------|---------------|----------------------|
| ARC-HL42   | 047000        | Lug #4 thru #2       |
| ARC-HL1020 | 047020        | Lug 1/0 thru 2/0     |
| ARC-HL110  | 047010        | Lug #1 thru 1/0      |
| ARC-HL3040 | 047030        | Lug 2/0 thru 4/0     |
| ARC-HS42   | 046110        | Splicer #4 thru #2   |
| ARC-HS1020 | 046120        | Splicer 1/0 thru 2/0 |
| ARC-HS3040 | 046130        | Splicer 2/0 thru 4/0 |

### ARC-HS1020



### ARC-HS3040



## Magnetic Ground Clamp

### ARC-M50G



| MODEL    | ITEM CODE NO. | AMP CAPACITY |
|----------|---------------|--------------|
| ARC-M50G | 042300        | 300          |

## Battery Clamps

### ARC-BAT600

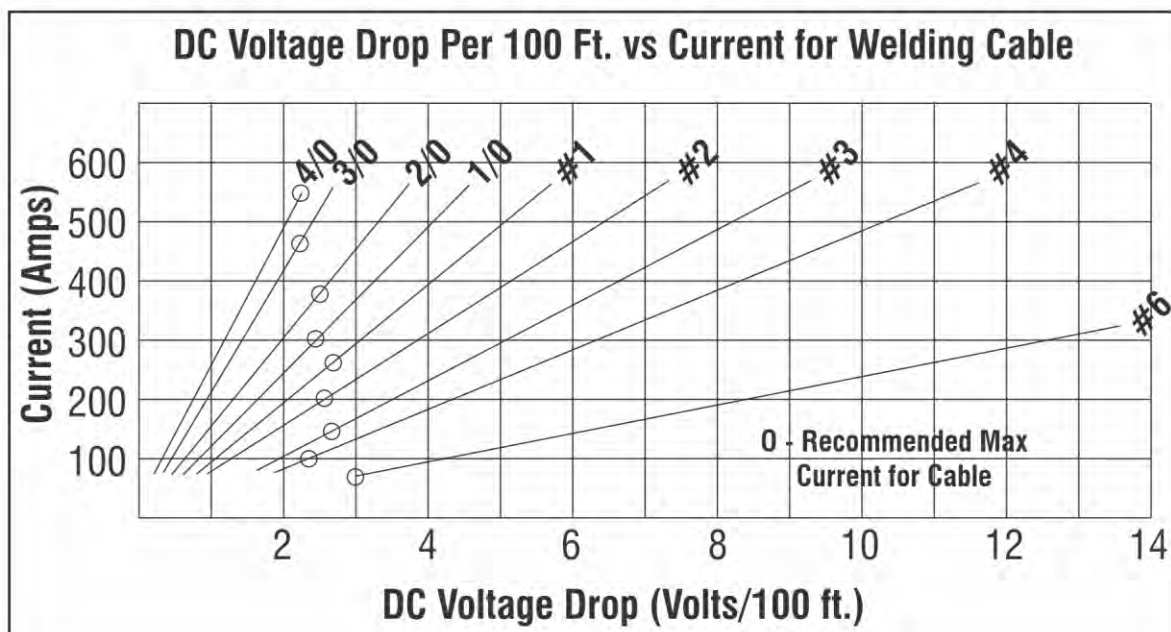


| MODEL      | ITEM CODE NO. | DESCRIPTION             |
|------------|---------------|-------------------------|
| ARC-BAT600 | 042180        | Set of Clamps Black/Red |



| <b>RECOMMENDED COPPER WELDING CABLE SIZES</b>                 |                     |                   |                     |                      |                      |
|---------------------------------------------------------------|---------------------|-------------------|---------------------|----------------------|----------------------|
| Cable Sizes for Combined Lengths of Electrode and Work Cables |                     |                   |                     |                      |                      |
| <b>AMPS</b>                                                   | <b>% DUTY CYCLE</b> | <b>0 - 50 ft.</b> | <b>50 - 100 ft.</b> | <b>100 - 150 ft.</b> | <b>150 - 200 ft.</b> |
| 100                                                           | 20                  | 8                 | 4                   | 3                    | 2                    |
| 150                                                           | 40                  | 6                 | 5                   | 3                    | 2                    |
| 225                                                           | 20                  | 4                 | 3                   | 2                    | 1                    |
| 250                                                           | 40                  | 2                 | 2                   | 1                    | 1                    |
| 300                                                           | 60                  | 1/0               | 1/0                 | 1/0                  | 2/0                  |
| 350                                                           | 60                  | 1/0               | 1/0                 | 2/0                  | 2/0                  |
| 400                                                           | 60                  | 2/0               | 2/0                 | 2/0                  | 3/0                  |
| 500                                                           | 60                  | 2/0               | 2/0                 | 3/0                  | 3/0                  |

| <b>PRIMARY WIRE AND FUSE SIZE</b> |                                |             |             |             |                  |                             |             |             |             |
|-----------------------------------|--------------------------------|-------------|-------------|-------------|------------------|-----------------------------|-------------|-------------|-------------|
| <b>Model (Amp)</b>                | <b>Primary Wire Size - AWG</b> |             |             |             | <b>Grd. Wire</b> | <b>Fuse size in Amperes</b> |             |             |             |
|                                   | <b>208V</b>                    | <b>230V</b> | <b>460V</b> | <b>575V</b> |                  | <b>208V</b>                 | <b>230V</b> | <b>460V</b> | <b>575V</b> |
| 200                               | #8                             | #8          | #10         | #12         | #8               | 70                          | 70          | 35          | 30          |
| 300                               | #6                             | #6          | #10         | #10         | #8               | 100                         | 90          | 45          | 30          |
| 400                               | #4                             | #4          | #8          | #10         | #8               | 150                         | 125         | 60          | 50          |
| 500                               | #2                             | #3          | #6          | #8          | #8               | 175                         | 150         | 75          | 60          |
| 600                               | #1                             | #2          | #6          | #8          | #6               | 225                         | 200         | 100         | 80          |

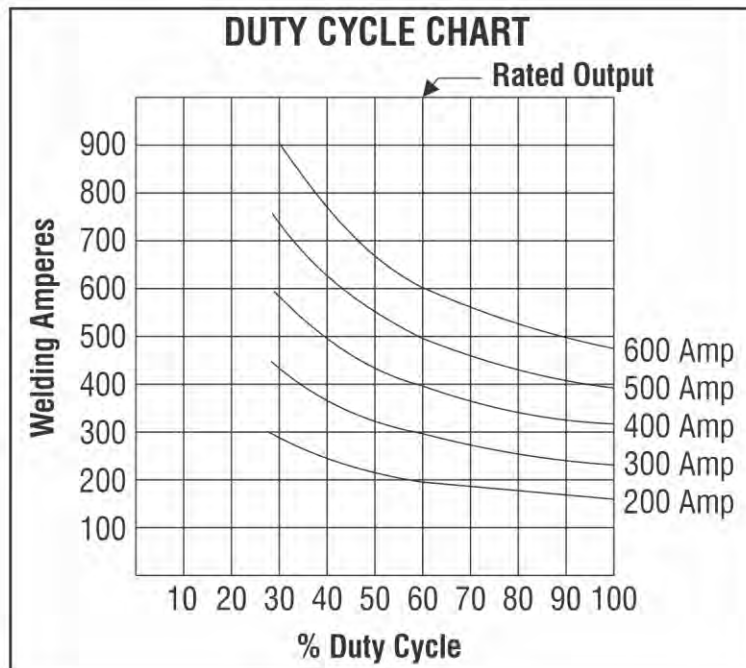


**ELECTRODE AND WELD FILLET SIZES METRIC CONVERSIONS**

| Electrode Sizes |     | Fillet Sizes |    |
|-----------------|-----|--------------|----|
| In.             | mm  | In.          | mm |
| .023            | .6  | 1/8          | 3  |
| .030            | .8  | 5/32         | 4  |
| .035            | .9  | 3/16         | 5  |
| .040            | 1.0 | 1/4          | 6  |
| .045            | 1.2 | 5/16         | 8  |
| 1/16            | 1.6 | 3/8          | 10 |
| 5/64            | 2.0 | 7/16         | 11 |
| 3/32            | 2.4 | 1/2          | 13 |
| 1/8             | 3.2 | 5/8          | 16 |
| 3/16            | 4.8 | 3/4          | 19 |
| 1/4             | 6.4 | 7/8          | 22 |
| 3/8             | 10  | 1            | 25 |

**WELDING SPEED CONVERSION TABLE**

| in./min | Ft/hr | M/hr | in./min | Ft/hr | M/hr |
|---------|-------|------|---------|-------|------|
| 7       | 33    | 10   | 79      | 394   | 120  |
| 13      | 66    | 20   | 92      | 459   | 140  |
| 20      | 98    | 30   | 105     | 525   | 160  |
| 26      | 131   | 40   | 118     | 590   | 180  |
| 33      | 164   | 50   | 131     | 656   | 200  |
| 39      | 197   | 60   | 144     | 722   | 220  |
| 46      | 230   | 70   | 157     | 787   | 240  |
| 52      | 262   | 80   | 170     | 853   | 260  |
| 59      | 295   | 90   | 183     | 918   | 280  |
| 65      | 328   | 100  | 197     | 984   | 300  |

**DUTY CYCLE CHART**



| <b>RECOMMENDED MIG PROCEDURES, GAS, SETTINGS</b> |                 |                                              |                       |             |              |                        |
|--------------------------------------------------|-----------------|----------------------------------------------|-----------------------|-------------|--------------|------------------------|
| <b>Metal &amp; Mode</b>                          | <b>Polarity</b> | <b>Gas</b>                                   | <b>Electrode Size</b> | <b>Amps</b> | <b>Volts</b> | <b>Wire Feed Speed</b> |
| Mild Steel<br>Short Circuit                      | DCEP            | 75% Argon<br>25% CO <sub>2</sub>             | .023                  | 30-90       | 14-19        | 100-400                |
|                                                  |                 |                                              | .030                  | 40-145      | 15-21        | 90-340                 |
|                                                  |                 |                                              | .035                  | 50-180      | 16-22        | 80-380                 |
| Mild Steel<br>Spray Mode                         | DCEP            | Argon<br>1-5% O <sub>2</sub>                 | .023                  | -           | -            | -                      |
|                                                  |                 |                                              | .030                  | 135-230     | 24-28        | 330-650                |
|                                                  |                 |                                              | .035                  | 165-180     | 24-30        | 340-625                |
| 4130 Steel<br>Short Circuit                      | DCEP            | 75% Argon<br>25% CO <sub>2</sub>             | .023                  | 30-90       | 14-19        | 100-400                |
|                                                  |                 |                                              | .030                  | 40-145      | 15-21        | 90-340                 |
|                                                  |                 |                                              | .035                  | 50-180      | 16-22        | 80-380                 |
| 4130 Steel<br>Spray Mode                         | DCEP            | Argon                                        | .023                  | -           | -            | -                      |
|                                                  |                 |                                              | .030                  | 135-230     | 24-28        | 330-650                |
|                                                  |                 |                                              | .035                  | 165-230     | 24-30        | 340-625                |
| Stainless Steel<br>Short Circuit                 | DCEP            | 90% HE<br>7.5% Argon<br>2.5% CO <sub>2</sub> | .030                  | 60-125      | 16-23        | 150-280                |
|                                                  |                 |                                              | .035                  | 75-160      | 16-23        | 125-280                |
|                                                  |                 |                                              | .045                  | 100-200     | 16-24        | 110-230                |
| Stainless Steel<br>Spray Mode                    | DCEP            | 98% Argon<br>2% O <sub>2</sub>               | .035                  | 180-300     | 24-33        | 290-600                |
|                                                  |                 |                                              | .045                  | 200-450     | 24-35        | 250-475                |
|                                                  |                 |                                              | 1/16                  | 220-500     | 24-36        | 180-300                |
| Aluminum<br>Short Circuit                        | DCEP            | Argon                                        | .030                  | 50-120      | 16-19        | 250-550                |
|                                                  |                 |                                              | .035                  | 65-140      | 17-20        | 240-425                |
|                                                  |                 |                                              | 3/64                  | 75-170      | 17-22        | 160-325                |
| Aluminum<br>Spray Mode                           | DCEP            | Argon                                        | .030                  | 95-200      | 20-27        | 505-1200               |
|                                                  |                 |                                              | .035                  | 110-220     | 20-27        | 425-850                |
|                                                  |                 |                                              | 3/64                  | 130-290     | 22-31        | 250-65                 |

| <b>CARBON ARC GOUGING ELECTRODES</b>                         |            |                               |                 |
|--------------------------------------------------------------|------------|-------------------------------|-----------------|
| <b>Suggested Current Ranges for Commonly Used Electrodes</b> |            |                               |                 |
| <b>Electrode Dia.</b>                                        |            | <b>DC Electrode with DCEP</b> |                 |
| <b>in.</b>                                                   | <b>mm.</b> | <b>Min Amps</b>               | <b>Max Amps</b> |
| 5/32                                                         | 4.0        | 90                            | 150             |
| 3/16                                                         | 4.8        | 150                           | 200             |
| 1/4                                                          | 6.4        | 200                           | 400             |
| 5/16                                                         | 7.9        | 250                           | 450             |
| 3/8                                                          | 9.5        | 350                           | 600             |
| 1/2                                                          | 12.7       | 600                           | 1000            |
| 5/8                                                          | 15.9       | 800                           | 1200            |
| 3/4                                                          | 19.1       | 1200                          | 1600            |
| 1                                                            | 25.4       | 1800                          | 2200            |



| SMAW ELECTRODE CURRENT RATES AND DEPOSITION DATA |     |               |                 |                               |
|--------------------------------------------------|-----|---------------|-----------------|-------------------------------|
| E6010/E7010                                      |     |               |                 |                               |
| Electrode Dia.<br>in. (mm)                       |     | Range<br>Amps | Optimum<br>Amps | Deposition<br>Rate (lbs./hr.) |
| 3/32                                             | 2.4 | 40-75         | 75              | 1.5                           |
| 1/8                                              | 3.2 | 80-140        | 100             | 2.1                           |
|                                                  |     | 80-140        | 130             | 2.3                           |
| 5/32                                             | 4.0 | 130-175       | 140             | 2.8                           |
|                                                  |     | 130-175       | 170             | 2.9                           |
| 3/16                                             | 4.8 | 150-210       | 160             | 3.3                           |
|                                                  |     | 150-210       | 190             | 3.5                           |
| 7/32                                             | 5.6 | 180-275       | 190             | 4.5                           |
|                                                  |     | 180-275       | 230             | 5.1                           |
| E7018                                            |     |               |                 |                               |
| Electrode Dia.<br>in. (mm)                       |     | Range<br>Amps | Optimum<br>Amps | Deposition<br>Rate (lbs./hr.) |
| 3/32                                             | 2.4 | 70-100        | 90              | 1.7                           |
| 1/8                                              | 3.2 | 90-160        | 120             | 2.6                           |
|                                                  |     | 90-160        | 140             | 2.7                           |
| 5/32                                             | 4.0 | 130-220       | 140             | 3.1                           |
|                                                  |     | 130-220       | 170             | 3.8                           |
| 3/16                                             | 4.8 | 200-300       | 200             | 4.9                           |
|                                                  |     | 200-300       | 250             | 5.4                           |
| 7/32                                             | 5.6 | 250-350       | 250             | 6.5                           |
|                                                  |     | 250-350       | 300             | 7.2                           |
| 1/4                                              | 6.4 | 300-400       | 300             | 7.7                           |
|                                                  |     | 300-400       | 350             | 8.7                           |

| METAL MELTING POINTS |      |      |                      |      |      |
|----------------------|------|------|----------------------|------|------|
| Elements             | F°   | C°   | Elements             | F°   | C°   |
| Aluminum             | 1220 | 660  | Lithium              | 367  | 186  |
| Antimony             | 1167 | 631  | Magnesium            | 1204 | 651  |
| Barium               | 1562 | 850  | Manganese            | 2300 | 1260 |
| Beryllium            | 2462 | 1350 | Mercury              | -38  | -39  |
| Bismuth              | 520  | 271  | Molybdenum           | 4748 | 2620 |
| Cadmium              | 610  | 321  | Nickel               | 2635 | 1446 |
| Calcium              | 1490 | 810  | Phosphorous (yellow) | 111  | 44   |
| Carbon               | 6332 | 3500 | Platinum             | 3223 | 1773 |
| Chromium             | 3209 | 1765 | Silicon              | 2588 | 1420 |
| Cobalt               | 2696 | 1480 | Silver               | 1761 | 961  |
| Copper               | 1981 | 1083 | Tin                  | 449  | 232  |
| Gold                 | 1945 | 1063 | Tungsten             | 6152 | 3400 |
| Iron                 | 2795 | 1535 | Vanadium             | 3110 | 1710 |
| Lead                 | 621  | 327  | Zinc                 | 787  | 420  |

| TEMPERATURES OF SOLDERING, BRAZING & WELDING PROCESS   |                                                       |                                                           |
|--------------------------------------------------------|-------------------------------------------------------|-----------------------------------------------------------|
| Soldering<br>(Lead Solder)<br>250-800 F°(121-427 C°)   | Arc Welding<br>6000-10000F°<br>(3316-5538 C°)         | Oxyacetylene<br>6300 F°(3482 C°)<br>Flame Temp Adjustable |
| Brazing<br>(Brass & Bronze)<br>800-1200 F°(427-649 C°) | TIG Welding<br>5000 F°(2760 C°)<br>Arc Temp. Variable | Plasma-Arc Cutting<br>50000 F°(27760 C°)<br>Arc Temp      |



**LENCO**

This image shows a single sheet of white paper with horizontal ruling lines. The lines are evenly spaced and run across the width of the page. There are no margins, text, or other markings on the paper.

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| 01020               | AF-2                                           | 2,3      | 0162515     | Set Screw for Core, Duro 250-400-I, (400 (2))     | 4        | 02101    | Left Housing, Threaded ,R-4C                           | 10       |  |  |  |
| 01020DP             | AF-2 Display Packaged                          |          | 0162516     | Brass Foil, Duro 250-600-I                        | 4        | 02102    | Right Housing, Counterbored, R-4C                      | 10       |  |  |  |
| 01021               | Upper Tong, AF-1/2 M-150/200                   | 3        | 0162517     | Brass Curved Piece, Duro 250-600-I                | 4        | 02103    | Armature/Rotor, R-4C                                   | 10       |  |  |  |
| 01022               | Lower Tong w/scr, AF/HT/M/MHT 2-200            | 3        | 016252      | Insulator, Top Jaw - #2, Duro 250-I               | 4        | 02104    | Brush, each, R-4C                                      | 10       |  |  |  |
| 01023               | Handle, AF-2                                   | 3        | 016253      | Insulator, Top Jaw - #3, Duro 250-I               | 4        | 02105    | Brush Finger, each, R-4C                               | 10       |  |  |  |
| 01025               | Cable Conn. Screw, AF-1/2/25,M-150/200/250     | 3,5      | 016254      | Jaws - Plain, Duro 250-I                          | 4        | 02106    | Brush Spring, each, R-4C                               | 10       |  |  |  |
| 01026               | Spring Set w/Ins., AF-1/2, M-150/200           | 3        | 016255      | Jaws w/insulators, Duro 250-I                     | 4        | 02107    | Socket Head Set Screw, R-4C                            | 10       |  |  |  |
| 01027               | Spring Cup Ins., AF/M 1-200                    | 3        | 016256      | Trigger - Plain, Duro 250-600-I                   | 4        | 02108    | Center Bolt, Nut incl., R-4C                           | 10       |  |  |  |
| 01030               | AF-25                                          | 2,3      | 016256A     | Insulator cover for Trigger, Duro 250-600-I       | 4        | 02109    | Contact Plate, R-4C                                    | 10       |  |  |  |
| 01030DP             | AF-25 Display Packaged                         | 3        | 016256B-100 | Trigger &Tip Insulator Screw - 100 pcs            | 4        | 02120    | GC-500                                                 | 9        |  |  |  |
| 01031               | Upper Tong, AF-25/M-250                        | 3        | 016256B-6   | Trigger &Tip Insulator Screw - 6 pcs              | 4        | 02121    | GC-500 Body, Press & Set Screw                         | 9        |  |  |  |
| 01032               | Lower Tong w/scr, AF/HT/M/MHT 25-250           | 3        | 016257      | Brass Core w/ Hardware Kit, Duro 250-I            | 4        | 02130    | MIG-600-C                                              | 9        |  |  |  |
| 01033               | Handle, AF-25                                  | 3        | 016258      | Trigger w/ Insulator, Duro 250-600-I              | 4        | 02132    | MIG-600-C Body, Press & Set Screw                      | 9        |  |  |  |
| 01034               | Spring Set w/Ins., AF-25/M-250                 | 3        | 016259      | Handle, Duro 250-I                                | 4        | 02180    | MG-180                                                 | 6        |  |  |  |
| 01040               | AF-3                                           | 3        | 016300      | Duro 300-I                                        | 4        | 02200    | R-4C                                                   | 10       |  |  |  |
| 01041               | Lower Tong w/scr, AF/HT/M/MHT 3-300            | 3        | 016301      | Insulator, Bottom Jaw - #1, Duro 300-I            | 4        | 02220    | GR-4C                                                  | 10       |  |  |  |
| 01042               | Handle, AF-3                                   | 3        | 016302      | Insulator, Top Jaw - #2, Duro 300-I               | 4        | 02230    | G-1500-34, 1500 Amp Heavy Work Clamp                   | 8        |  |  |  |
| 01050               | AF-35                                          | 3        | 016303      | Insulator, Top Jaw - #3, Duro 300-I               | 4        | 02240    | G-1500-138, 1500 Amp Heavy Work Clamp                  | 8,11     |  |  |  |
| 01051               | Upper Tong, AF-3/35/50 M-300/350/500           | 3        | 016304      | Jaws - Plain, Duro 300-I                          | 4        | 02281    | Ground Contact Plate, C                                | 9        |  |  |  |
| 01052               | Lower Tong w/scr, AF/HT/M/MHT 35-350           | 3        | 016305      | Jaws w/insulators, Duro 300-I                     | 4        | 02282    | Cable Contact Plate, C                                 | 9        |  |  |  |
| 01053               | Handle, AF-35                                  | 3        | 016307      | Brass Core w/ Hardware Kit, Duro 300-I            | 4        | 02283    | Center Bolt w/nut, C                                   | 9        |  |  |  |
| 01054               | Spring Set w/Ins., AF/M 3-300                  | 3        | 016309      | Handle, Duro 300-I                                | 4        | 02284    | Pressure Spring, C                                     | 9        |  |  |  |
| 01060               | AF-50                                          | 3        | 016310      | Guard, Duro 300-I                                 | 4        | 02285    | Screw, Cup Point Set                                   | 9        |  |  |  |
| 01062               | Lower Tong w/scr, AF/HT/M/MHT 50-500           | 3        | 016311      | Rubber Insulator for handle Screw, Duro 250-600-I | 4        | 02286    | Bearing, Thrust, C                                     | 9        |  |  |  |
| 01065               | Tip Insulator Screws (Dozen)                   | 3,11     |             |                                                   |          | 02300    | MSG-500                                                | 12       |  |  |  |
| 01066               | Handle, AF-50                                  | 3        | 016312      | Screw for Handle, Duro 3-600-I                    | 4        | 02400    | MRG-500                                                | 12       |  |  |  |
| 01068               | Cable Conn. Screw, 5/8-18 x 5/8"               | 3,9-10   | 016400      | Duro 400-I                                        | 4        | 02410    | 900 Magnetron 400 Amp Single 1/2-13 Screw              | 12       |  |  |  |
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| 01070               | Spring Insulator, Lg Fl, AF/HT/M/MHT           | 3        | 016402      | Insulator, Top Jaw - #2, Duro 4-600-I             | 4        |          |                                                        |          |  |  |  |
| 01071               | Spring Cup, AF/M 25-500 HT/MHT 2-200           | 3        | 016403      | Insulator, Top Jaw - #3, Duro 4-600-I             | 4        | 02430    | 2000 Magnetron 1500 Amp Triple 1/2-13 Screw            | 12       |  |  |  |
| 01214               | Hinge Pin, AF/HT/M/MHT 1-250                   | 3        | 016404      | Jaws - Plain, Duro 4-600-I                        | 4        |          |                                                        |          |  |  |  |
| 01223               | Hinge Pin, AF/HT/M/MHT 3-500                   | 3        | 016405      | Jaws w/insulators, Duro 4-600-I                   | 4        | 02450    | CPG-400 400 Amp Ground Designed for use on Coated Pipe | 12       |  |  |  |
| 01225               | Cable Conn. Screw, AF-3, M-300                 | 3        | 016407      | Brass Core w/ Hardware Kit, Duro 400-I            | 4        |          |                                                        |          |  |  |  |
| 01284               | Spring Cover, LT/MLT-400                       | 5        | 016409      | Handle, Duro 400-I                                | 4        | 02460    | CPG-400D                                               | 12       |  |  |  |
| 01286               | Spring, Coil, LT/MLT-400                       | 5        | 016410      | Guard, Duro 4-600-I                               | 4        | 02500    | LRG-140 Rotating Ground                                | 11       |  |  |  |
| 01320               | HT-2                                           | 3        | 016413-100  | Screws for Jaw Insulation - Duro 4-600-I          | 4        | 025001   | LRG-140 Rotating Ground w/Special Fitting              | 11       |  |  |  |
| 01320DP             | HT-2 Display Packaged                          | 3        | 016413-6    | Screws for Jaw Insulation - Duro 4-600-I          | 4        | 02510    | LRG-240 Rotating Ground                                | 11       |  |  |  |
| 01321               | Upper Tong, HT-2/MHT-200                       | 3        | 016600      | Duro 600-I                                        | 4        | 025101   | LRG-240 Rotating Ground w/Button Fitting               | 11       |  |  |  |
| 01323               | Handle, HT-2                                   | 3        | 016607      | Brass Core w/ Hardware Kit, Duro 600-I            | 4        | 02514    | LRG-140 Rotating Casting                               | 11       |  |  |  |
| 01324               | Spring Set w/Ins., HT-2/MHT-200                | 3        | 016609      | Handle, Duro 600-I                                | 4        | 02515    | LRG Replacement Head - All models                      | 11       |  |  |  |
| 01325               | Tip w/scr AF/M/HT/MHT 1-250                    | 3        | 016614      | Allen Wrench, Duro 600-I                          | 4        | 02520    | LRG-440 Rotating Ground                                | 11       |  |  |  |
| 01330               | HT-25                                          | 3        | 016615      | Set Screw for Core, Duro 600-I                    | 4        | 025201   | LRG-440 Rotating Ground w/Button Fitting               | 11       |  |  |  |
| 01330DP             | HT-25 Display Packaged                         | 3        | 01910       | LRO-10, 10 LB. Rod Oven, 120/230 vac              | 25       | 02530    | LRG-640 Rotating Ground                                | 11       |  |  |  |
| 01331               | Upper Tong, HT-25/MHT-250                      | 3        | 01916       | LRO-15WT, 15 LB. Rod Oven, 120/230 vac            | 25       | 025301   | LRG-640 Rotating Ground w/Button Fitting               | 11       |  |  |  |
| 01333               | Handle, HT-25                                  | 3        | 019231      | Pilot Light                                       | 25       | 02560    | LRG-140 Shaft                                          | 11       |  |  |  |
| 01334               | Spring Set w/Ins., HT/MHT 25-300               | 3        | 01924       | Basket and Handle                                 | 25       | 02561    | LRG-240 Shaft                                          | 11       |  |  |  |
| 01335               | Tip w/scr AF/HT-3/35/50, M/MHT-300/350/500     | 3        | 01925       | Retaining Clip                                    | 25       | 02562    | LRG-440 Shaft                                          | 11       |  |  |  |
| 01337               | Spring Cup Ins., HT/MHT 25-300                 | 3        | 01929       | Receptacle                                        | 25       | 02563    | LRG-640 Shaft                                          | 11       |  |  |  |
| 01340               | HT-3                                           | 3        | 01950       | LRO-50-120 50 LB. Rod Oven, 120 vac               | 25       | 02570    | Grease Cup                                             | 11       |  |  |  |
| 01341               | Upper Tong, HT-3/35/50 MHT-300/350/500         | 3        | 01970       | LRO-450-120 450 LB. Rod Oven, 120vac              | 25       | 02571    | Grease Fitting, Button Head                            | 11       |  |  |  |
| 01343               | Handle, HT-3                                   | 3        | 01971       | LRO-450-230 450 LB. Rod Oven, 230vac              | 25       | 02572    | Tightening Bar                                         | 11       |  |  |  |
| 01350               | HT-35                                          | 3        | 01973       | Thermostat                                        | 25       | 02574    | LRG-140 Tension Adjustment Screw w/Washers             | 11       |  |  |  |
| 01353               | Handle, HT-35                                  | 3        | 019731      | Thermostat                                        | 25       | 02575    | Tension Adjustment Screw w/Washers                     | 11       |  |  |  |
| 01360               | HT-50                                          | 3        | 01975       | Heating Element                                   | 25       | 02577    | Head Alignment Pin                                     | 11       |  |  |  |
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| 01364               | Spring Set w/Ins., HT-35/50, MHT-350/500       | 3        | 01976       | Handle and Latch                                  | 25       | 02580    | Mounting Nut w/Screw                                   | 11       |  |  |  |
| 01400               | RHA-400 - Replacement Head Assy LT-400         | 5        | 01977       | Latch Assembly                                    | 25       | 02585    | Insulating Cover                                       | 11       |  |  |  |
| 01410               | LT-400                                         | 5        | 019781      | Power Cord                                        | 25       | 02587    | Oval-Point Screw, 5/8-18 x 5/8"                        | 11       |  |  |  |
| 01420               | LT-250                                         | 5        | 02000       | EG-200                                            | 6        | 02590    | Conductive Shaft Luricant, 1 oz Tube                   | 11-12    |  |  |  |
| 01422               | Head Insulator, LT-250                         | 5        | 02010       | 200                                               | 6        | 02591    | Conductive Shaft Luricant,                             | 11-12    |  |  |  |
| 01423               | Pressure Pin, LT-250                           | 5        | 02011       | LPG-200                                           | 2,6      |          |                                                        |          |  |  |  |
| 01424               | Handle, LT-250                                 | 5        | 02020       | 300                                               | 6        | 02592    | Conductive Shaft Luricant, 16 oz w/Brush Top Can       | 11-12    |  |  |  |
| 01425               | Spring Cap Washer, LT/MLT-250                  | 5        | 02021       | LPG-300                                           | 2,6      |          |                                                        |          |  |  |  |
| 01426               | Spring, Coil, LT/MLT-250                       | 5        | 02030       | 500                                               | 6        | 02593    | Conductive Shaft Luricant, 16 oz Cartridge             | 11       |  |  |  |
| 01427               | Head Member, LT-250                            | 5        | 02031       | LPG-500                                           | 6        | 02595    | Pistol Grease Gun w/ Button Head Coupler               | 11       |  |  |  |
| 01430               | RHA-250 - Replacement Head Assy LT-250         | 5        | 02040       | EG-300                                            | 6        | 02596    | Coupler - Button Head                                  | 11       |  |  |  |
| 01432               | Brass Body w/Screws, LT-250                    | 5        | 02050       | EG-500                                            | 6        | 02600    | RBG-1500-138                                           | 8,11     |  |  |  |
| 01472               | Head Insulator, LT-400                         | 5        | 02055       | EG-500 Contact Stud w/ Nut                        | 6        | 02610    | RBG-1500-34                                            | 8        |  |  |  |
| 01474               | Handle, LT-400                                 | 5        | 02056       | EG-500 Double Hump Stud w/ Nut                    | 6        | 02620    | RBG-1500-4/40                                          | 8        |  |  |  |
| 01477               | Head Member, LT-400                            | 5        | 02060       | G                                                 | 8        | 02630    | RBG-1500-2/250                                         | 8        |  |  |  |
| 01481               | Pressure Pin, LT-400                           | 5        | 02061       | G-50 - (1/2-13)                                   | 8        | 02700    | PRG-48ID Rotating Pipe Ground                          | 10       |  |  |  |
| 01482               | Brass Body w/Screws, LT-400                    | 5        | 02069       | G-50WDM - (1-3/8-6)                               | 8        | 02710    | PRG-816ID Rotating Pipe Ground                         | 10       |  |  |  |
| 01485               | Screw, Head Ins. & Pressure Pin,LT/M/L-250/400 | 5        | 02070       | MIG-600                                           | 7        | 03010    | CB-20                                                  | 24       |  |  |  |
| 01525               | IS-25 Isolator w/cable                         | 5        | 02071       | MIG-600-50 - (1/2-13)                             | 7        | 03012    | Circle Burner Extra Wheel Assy                         | 24       |  |  |  |
| 01555               | ISH-25 Isolator w/cable                        | 5        | 02075       | MIG-300                                           | 7        | 03013    | Circle Burner Center Pin                               | 24       |  |  |  |
| 016250              | Duro 250-I                                     | 4        | 02077       | MIG-300-50 - (1/2-13)                             | 7        | 03014    | Circle Burner Guide Block - Round Hole                 | 24       |  |  |  |
| 016251              | Insulator, Bottom Jaw - #1, Duro 250-I         | 4        | 02080       | C                                                 | 9        | 03015    | Circle Burner Guide Block - Square Hole                | 24       |  |  |  |
| 0162510             | Guard, Duro 250-I                              | 4        | 02081       | MIG-600-D                                         | 7        | 03016    | Circle Burner Thumb Screw                              | 24       |  |  |  |
| 0162512             | Screw for Handle, Duro 250-I                   | 4        | 02082       | MIG-300-D                                         | 7        | 03020    | CB-30                                                  | 24       |  |  |  |
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| 041291              | ARC-T-400 Electrode Holder            | 28       | 05066041 | LC-40HD-1/0 Female Unassembled-Bulk           | 13       | 05555    | LC-40 Pink Male                      | 13       |
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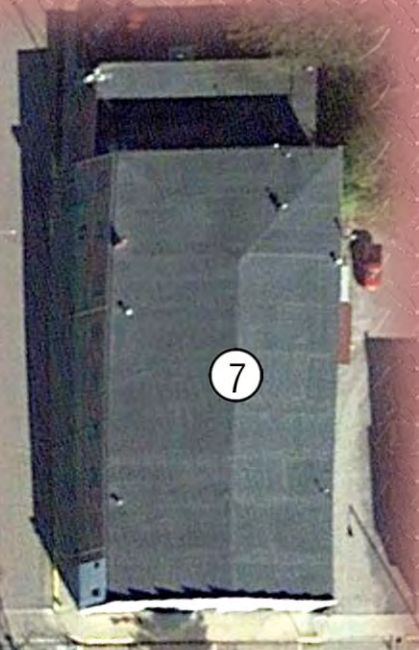
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