



MIG Guns, MIG Consumables & Welding Accessories Catalog



**PERFORMANCE  
DURABILITY  
EASE OF USE**



# ***Make the Switch. Increase Productivity.***

## **TWECO® ADVANTAGE**

- Excellent performance with high productivity & low downtime
- Superior durability with long lasting guns
- Exceptional ease of use with operator appeal

## **TWECO MIG GUN PORTFOLIO**

- Broad range of products for different applications
- Air-cooled and water-cooled MIG guns
- Specialty guns for pulse welding
- Specialty guns for aluminum welding
- Specialty guns with smoke & fume extraction features

## **TWECO OFFERS SUPERIOR FEATURES AND BENEFITS**

- Ergonomic design to reduce operator fatigue
- Excellent customer support to answer all your technical questions
- Widest range of MIG gun consumables in the industry
- Meet a broad range of your application needs

## **TWECO TRUST**

- Industry standard for over 40 years
- Over 2 million MIG guns sold
- Most trusted MIG gun in the industry



**TWECO ADVANTAGE. TWECO TRUST.**

Visit [www.twecotrust.com](http://www.twecotrust.com)

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# MIG Welding Products & Accessories

## MIG Gun Selection Guide

| Wire Diameter in. (mm)                      | Amperage Range            |                 |                      |         |      | Recommended                           | Alternate                                                                                                                                       |
|---------------------------------------------|---------------------------|-----------------|----------------------|---------|------|---------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------|
|                                             | 30-100                    | 100-200         | 200-300              | 300-400 | >400 |                                       |                                                                                                                                                 |
| Solid Wire - Mild Steel and Stainless Steel | .023" - .030" (0.6 - 0.8) | CO <sub>2</sub> | 75-25                |         |      | MINI-MIG                              | Professional No.1                                                                                                                               |
|                                             | .035" (0.9)               | CO <sub>2</sub> | 75-25                |         |      | Spray Master® 250 & Professional No.2 | Compact Eliminator® 250 & Smoke Master® 250, Eliminator Spool Gun 300                                                                           |
|                                             | .045" (1.2)               | CO <sub>2</sub> |                      |         |      | Spray Master 350 & Professional No. 4 | PulseMaster™ Air-Cooled 350, Compact Eliminator 450, Supra® XT 450, TUFF-N-LITE 350, Smoke Master 450, Eliminator Spool Gun 300                 |
|                                             | .052" (1.3)               |                 | Higher Argon mixture |         |      | Spray Master 450 & Professional No. 5 | PulseMaster Air-Cooled 450, Compact Eliminator 450, Standard Eliminator 450, Supra XT 450, Smoke Master™ 450, Supra Water-Cooled 450            |
|                                             | 1/16" (1.6)               |                 | Higher Argon mixture |         |      | Spray Master 450 & Professional No. 6 | PulseMaster Air-Cooled 450, PulseMaster 500, Compact Eliminator 450, Standard Eliminator 450, Supra Water-Cooled 450, Standard Water-Cooled 600 |

| Wire Diameter in. (mm) | Amperage Range            |               |                          |         |         | Recommended                             | Alternate                                                                        |
|------------------------|---------------------------|---------------|--------------------------|---------|---------|-----------------------------------------|----------------------------------------------------------------------------------|
|                        | 30-100                    | 100-200       | 200-300                  | 300-400 | 400-650 |                                         |                                                                                  |
| Flux cored Wire        | .030" (0.8)               | Self-shielded |                          |         |         | Professional No.1                       | Spray Master 250                                                                 |
|                        | .035" (0.9)               | Self-shielded | CO <sub>2</sub> or 75-25 |         |         | *FLUXCORED SEFC 350 & Spray Master 250  | Compact Eliminator 250, Professional No.2                                        |
|                        | .045" (1.2)               | Self-shielded | CO <sub>2</sub> or 75-25 |         |         | *FLUXCORED SEFC 350 & Spray Master 350  | Professional No.2, Compact Eliminator 250, 450, Supra XT 450, TUFF-N-LITE 350    |
|                        | .052" (1.3)               |               | CO <sub>2</sub> or 75-25 |         |         | *FLUXCORED SEFC 450 & Spray Master 450  | Professional No.4, Compact Eliminator 450, Standard Eliminator 450, Supra XT 450 |
|                        | 1/16" - 5/64" (1.6 - 2.0) | Self-shielded | CO <sub>2</sub> or 75-25 |         |         | *FLUXCORED SEFC 450 & Spray Master 450  | Professional No.5, Compact Eliminator 450, Standard Eliminator 450               |
|                        | 3/32" (2.4)               | Self-shielded | CO <sub>2</sub> or 75-25 |         |         | *FLUXCORED SEFC 450 & Professional No.6 | Professional No.5, Compact Eliminator 450, Standard Eliminator 450               |

\*FLUXCORED SEFC Series MIG Guns are to be used only with Self-Shielded wire.

| Wire Diameter in. (mm) | Amperage Range |         |         |         |      | Recommended                                   | Alternate                                                                                                       |
|------------------------|----------------|---------|---------|---------|------|-----------------------------------------------|-----------------------------------------------------------------------------------------------------------------|
|                        | 30-150         | 150-250 | 250-350 | 350-450 | >450 |                                               |                                                                                                                 |
| Solid Wire - Aluminum  | .030" (0.8)    | Argon   |         |         |      | Eliminator Spool Gun 300 & MINI-MIG           | Professional No.1                                                                                               |
|                        | .035" (0.9)    | Argon   |         |         |      | Eliminator Spool Gun 300 & Spray Master 250   | PulseMaster Air-Cooled 350, Professional No.2, Compact Eliminator 250                                           |
|                        | 3/64" (1.2)    | Argon   |         |         |      | PulseMaster Air-Cooled 350 & Spray Master 250 | PullMaster™ 300, Professional No.3, Compact Eliminator 250, TUFF-N-LITE 350                                     |
|                        | 1/16" (1.6)    |         | Argon   |         |      | PulseMaster Air-Cooled 450 & Spray Master 350 | PullMaster 300, Professional No.4, Compact Eliminator 450, Standard Eliminator 450, TUFF-N-LITE 350             |
|                        | 3/32" (2.4)    |         |         | Argon   |      | PulseMaster Air-Cooled 450 & Spray Master 450 | PullMaster 300, PulseMaster Water-Cooled 500, Professional No.4, Compact Eliminator 450, Supra Water-Cooled 450 |

When welding with aluminum wire, standard MIG gun length of 12 ft should not be exceeded and conduit liners/contact tips made specifically for aluminum wires should be used.



# Which MIG Gun Is Right For You?

Tweco® offers a broad range of MIG gun families to meet the everyday needs of the welder.

- Amperage Range
- Lengths
- Handle Design
- Rear End Connections
- Air-Cooled or Water-Cooled

|                              | Amperage Range                    | Available Lengths (ft) | Handle Design       | Cablehoz® Connection | Rear End Connector Options                 | Air-Cooled/<br>Water-Cooled | Special Features                                           |
|------------------------------|-----------------------------------|------------------------|---------------------|----------------------|--------------------------------------------|-----------------------------|------------------------------------------------------------|
| <b>Spray Master®</b>         | 250, 350, 450                     | 10, 12, 15, 20, 25     | Small & Ergonomic   | Crimped              | Tweco®<br>Miller®<br>Lincoln®<br>Euro-Kwik | Air                         | Heavy-Duty Front End Consumables                           |
| <b>Professional No.</b>      | 160, 180, 200, 300, 400, 500, 600 | 10, 12, 15, 20, 25     | Oval/Paddle Contour | Mechanical           | Tweco<br>Miller<br>Lincoln<br>Euro-Kwik    | Air                         | Wide Range of Front End Consumables                        |
| <b>PulseMaster™</b>          | 350, 450                          | 12, 15                 | Small & Ergonomic   | Crimped              | Tweco<br>Euro-Kwik                         | Air                         | Smart Option or Standard & Gun Drilled Contact Tips        |
| <b>Compact Eliminator®</b>   | 250, 450                          | 10, 12, 15, 25         | Small & Ergonomic   | Crimped              | Tweco<br>Miller<br>Euro-Kwik               | Air                         | Articulating Conductor Tube & Cam-Style Contact Tips       |
| <b>Standard Eliminator</b>   | 450                               | 15                     | Ergonomic           | Crimped              | Tweco<br>Miller<br>Lincoln<br>Euro-Kwik    | Air                         | Articulating Conductor Tube & Cam-Style Contact Tips       |
| <b>TUFF-N-LITE</b>           | 350                               | 15                     | Straight            | Mechanical           | Tweco<br>Miller                            | Air                         | Top Trigger Capability                                     |
| <b>SUPRA® XT</b>             | 450                               | 15                     | Straight            | Mechanical           | Tweco<br>Miller<br>Lincoln                 | Air                         | Top Trigger Capability                                     |
| <b>Smoke Master®</b>         | 250, 450                          | 15                     | Ergonomic           | Crimped              | Tweco<br>Miller<br>Lincoln                 | Air                         | Fume Extraction<br>Cam-Style Contact Tips                  |
| <b>FLUXCORED SEFC Series</b> | 350, 450                          | 10, 15                 | Straight            | Crimped              | Tweco<br>Miller                            | Air                         | Galvanized Steel Inner Core<br>Tube Cablehoz Design        |
| <b>Tweco Spool Gun</b>       | 160, 200, 300                     | 12, 25                 | Pistol Grip         | Mechanical           | Dinse Lug                                  | Air                         | Accepts Standard 4" Spools<br>Rotatable Wire Spool Housing |
| <b>PullMaster™</b>           | 300                               | 33, 50                 | Pistol Grip         | Crimped              | Tweco                                      | Air                         | Smart Option or Standard & Gun Drilled Contact Tips        |
| <b>PulseMaster</b>           | 400, 500                          | 12, 15                 | Ergonomic           | Crimped              | Tweco                                      | Water                       | Smart Option or Standard & Gun Drilled Contact Tips        |
| <b>SUPRA</b>                 | 450                               | 10, 12, 15             | Oval/Paddle Contour | Crimped              | Tweco<br>Miller                            | Water                       | Quick Water Connections                                    |
| <b>Standard Water-cooled</b> | 600                               | 10, 12, 15             | Ergonomic           | Crimped              | Tweco                                      | Water                       | Inert Gas Style Fitting                                    |

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# MIG Welding Products & Accessories

## SPRAY MASTER® MIG GUN SERIES

### FEATURES & BENEFITS

#### Operator appeal and reduces operator fatigue

- extended trigger length to reduce radiated heat
- conductor tube can be rotated easily for different welding positions
- ergonomic handle

#### Field repairable

- split-half handle case provides access for ease of repair
- field repairable mechanical cable connections for Cablehoz®
- spare trigger leads in Cablehoz

#### Lower heat in the handle and conductor tube

- heavy wall conductor tube and front Cablehoz connection (crimped) for improved electrical conductivity and lower heat in the front end
- heavy-duty contact tip and diffuser for improved performance in high heat applications

#### Standard gun configurations options

- standard trigger “on/off” operation
- optional dual schedule and locking trigger

#### Wide welding applications

- spray transfer mode & pulse welding
- straight CO<sub>2</sub> or mixed gases

#### Lower inventory carrying costs

- interchangeable front end consumables between Tweco® Professional No. Series and Tweco Spray Master series



| MODEL                | OUTPUT         |                        |                       | PROCESS |          |                         |                          | STANDARD OPTIONS |                 |                |                                     | APPLICATION    |                 |                |
|----------------------|----------------|------------------------|-----------------------|---------|----------|-------------------------|--------------------------|------------------|-----------------|----------------|-------------------------------------|----------------|-----------------|----------------|
|                      | Current (Amps) | Duty Cycle Mixed Gases | Wire Diameter in (mm) | MIG     | Aluminum | Flux-Cored Gas Shielded | Flux-Cored Self Shielded | Dual Schedule    | Locking Trigger | Rear Connector | Knucklehead Flexible Conductor Tube | Light Duty Fab | Medium Duty Fab | Heavy Duty Fab |
| Spray Master 250 Amp | 250            | 80%                    | Up to .045" (1.2 mm)  | ●       | ●        | ●                       | ●                        |                  |                 | ●              | ●                                   | ●              |                 |                |
| Spray Master 350 Amp | 350            | 80%                    | Up to 1/16" (1.6 mm)  | ●       | ●        | ●                       | ●                        | ●                |                 | ●              | ●                                   |                | ●               |                |
| Spray Master 450 Amp | 450            | 80%                    | Up to 1/16" (1.6 mm)  | ●       | ●        | ●                       | ●                        | ●                | ●               | ●              | ●                                   |                |                 | ●              |



## SPRAY MASTER® SERIES HANDLE DESIGN & STYLE

### PERFORMANCE

### DURABILITY

### EASE OF USE

Thick-walled, three-layer conductor tube for higher electrical conductivity, act as "heat sink", and durable

Heavy-duty thick-walled contact tip and diffuser increases tip life and decreases downtime with tip changes

Optional Dual Schedule On/Off control with your gloved thumb (350 and 450 Amp only) Identified with "DSRS" Part No. suffix



Balanced to pivot at the center of the handle for ease of use in different welding positions, and thereby reduces operator fatigue

Extended trigger length to keep hand away from the arc to reduce radiated heat

Steel spring strain relief provides support to the Cablehoz® coming out the rear of the handle to minimize wire feed issues

Optional mechanical locking trigger - Identified with "LC" Part No. suffix





## Spray Master® 250 Amp 80% Duty Cycle, Mixed Gases

### TWECO® STYLE REAR CONNECTOR\*

| Wire Size               | Length      | Part No.   | Stock No. |
|-------------------------|-------------|------------|-----------|
| Up To .045"<br>(1.2 mm) | 12 ft (4 m) | MS212-3545 | 1023-1101 |
|                         | 15 ft (5 m) | MS215-3545 | 1023-1102 |
|                         | 20 ft (6 m) | MS220-3545 | 1023-1103 |
|                         | 25 ft (8 m) | MS225-3545 | 1023-1108 |

### LINCOLN® STYLE REAR CONNECTOR†

| Wire Size               | Length      | Part No.    | Stock No. |
|-------------------------|-------------|-------------|-----------|
| Up To .045"<br>(1.2 mm) | 12 ft (4 m) | MS212L-3545 | 1023-1136 |

### MILLER® STYLE REAR CONNECTOR

| Wire Size               | Length      | Part No.    | Stock No. |
|-------------------------|-------------|-------------|-----------|
| Up To .045"<br>(1.2 mm) | 10 ft (3 m) | MS210M-3545 | 1023-1110 |
|                         | 12 ft (4 m) | MS212M-3545 | 1023-1111 |
|                         | 15 ft (5 m) | MS215M-3545 | 1023-1112 |
|                         | 20 ft (6 m) | MS220M-3545 | 1023-1113 |
|                         | 25 ft (8 m) | MS225M-3545 | 1023-1118 |

### EURO-KWIK STYLE REAR CONNECTOR

| Wire Size               | Length      | Part No.    | Stock No. |
|-------------------------|-------------|-------------|-----------|
| Up To .045"<br>(1.2 mm) | 12 ft (4 m) | MS212X-3545 | 1023-1126 |
|                         | 15 ft (5 m) | MS215X-3545 | 1023-1127 |
|                         | 25 ft (8 m) | MS225X-3545 | 1023-1133 |

#### Standard Conductor Tube –

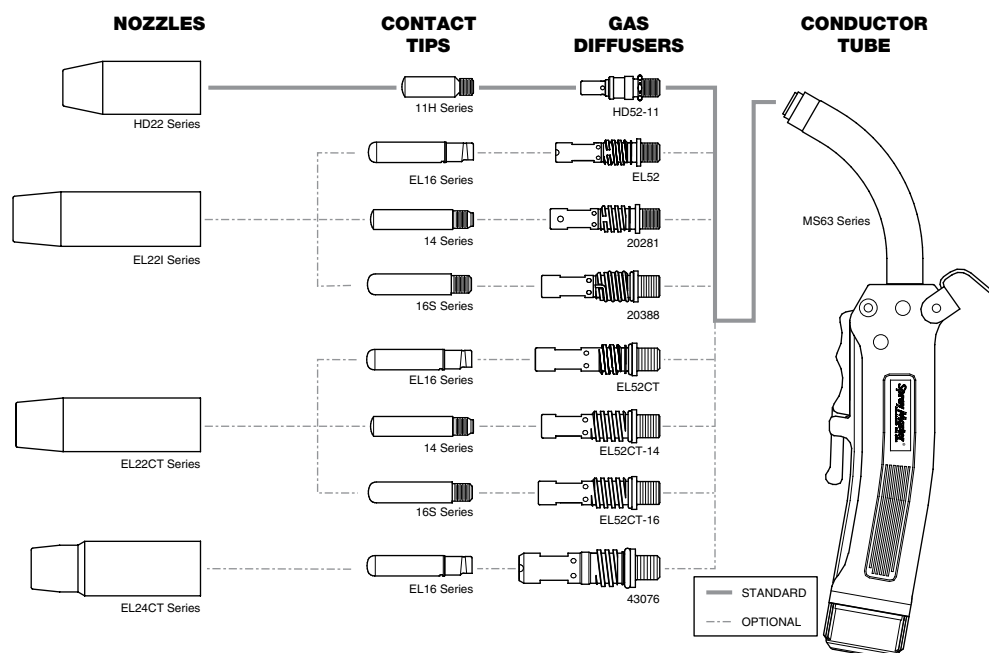
Part No. MS63-60 (Stock No. 1630-1189) on all guns up to 15ft (5 m)

Part No. MS63-45 (Stock No. 1630-1188) on all guns over 15ft (5 m)

#### Conduit Liner – 42 Series

\* Adapter kits are available to fit Tweco rear connection to most wire feeders.

† Fits Lincoln LN7, 8, 9, SP200 - **SOME LINCOLN WIRE FEEDERS ARE ASSEMBLED WITH THEIR K1500-2 GUN RECEIVING BUSHING THAT WILL ACCEPT TWECO STYLE MIG GUNS DIRECT FROM THE FACTORY. CONTROL WIRE PART NO. MS354-DSLJ (STOCK NO. 2060-2137) MUST BE ORDERED SEPARATELY.**



Refer to pages 88-103 for more complete detail on front end options. Refer to pages 14-15 for parts breakdown information.

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# Spray Master® 350 Amp 80% Duty Cycle, Mixed Gases



## TWECO® STYLE REAR CONNECTOR\*

| Wire Size               | Length      | Part No.     | Stock No. |
|-------------------------|-------------|--------------|-----------|
| Up To 1/16"<br>(1.6 mm) | 10 ft (3 m) | MS310-116    | 1036-1610 |
|                         | 12 ft (4 m) | MS312-116    | 1036-1613 |
|                         | 15 ft (5 m) | MS315-116    | 1036-1615 |
|                         | 15 ft (5 m) | MS315-116K4‡ | 1036-1715 |

## LINCOLN® STYLE REAR CONNECTOR†

| Wire Size               | Length      | Part No.       | Stock No. |
|-------------------------|-------------|----------------|-----------|
| Up To 1/16"<br>(1.6 mm) | 12 ft (4 m) | MS312L-116     | 1036-1646 |
|                         | 15 ft (5 m) | MS315L-116     | 1036-1647 |
|                         | 15 ft (5 m) | MS315L-116K4‡  | 1036-1717 |
|                         | 15 ft (5 m) | MS315L-116DSRS | 1036-1722 |

## MILLER® STYLE REAR CONNECTOR

| Wire Size               | Length      | Part No.      | Stock No. |
|-------------------------|-------------|---------------|-----------|
| Up To 1/16"<br>(1.6 mm) | 10 ft (3 m) | MS310M-116    | 1036-1635 |
|                         | 12 ft (4 m) | MS312M-116    | 1036-1638 |
|                         | 15 ft (5 m) | MS315M-116    | 1036-1640 |
|                         | 15 ft (5 m) | MS315M-116K4‡ | 1036-1716 |
|                         | 25 ft (8 m) | MS325M-116    | 1036-1642 |

## EURO-KWIK STYLE REAR CONNECTOR

| Wire Size               | Length      | Part No.   | Stock No. |
|-------------------------|-------------|------------|-----------|
| Up To 1/16"<br>(1.6 mm) | 15 ft (5 m) | MS315X-116 | 1036-1623 |

### Standard Conductor Tube –

Part No. MS63-60 (Stock No. 1630-1189) on all guns up to 15 ft (5 m)  
Part No. MS63-45 (Stock No. 1630-1188) on all guns over 15 ft (5 m)

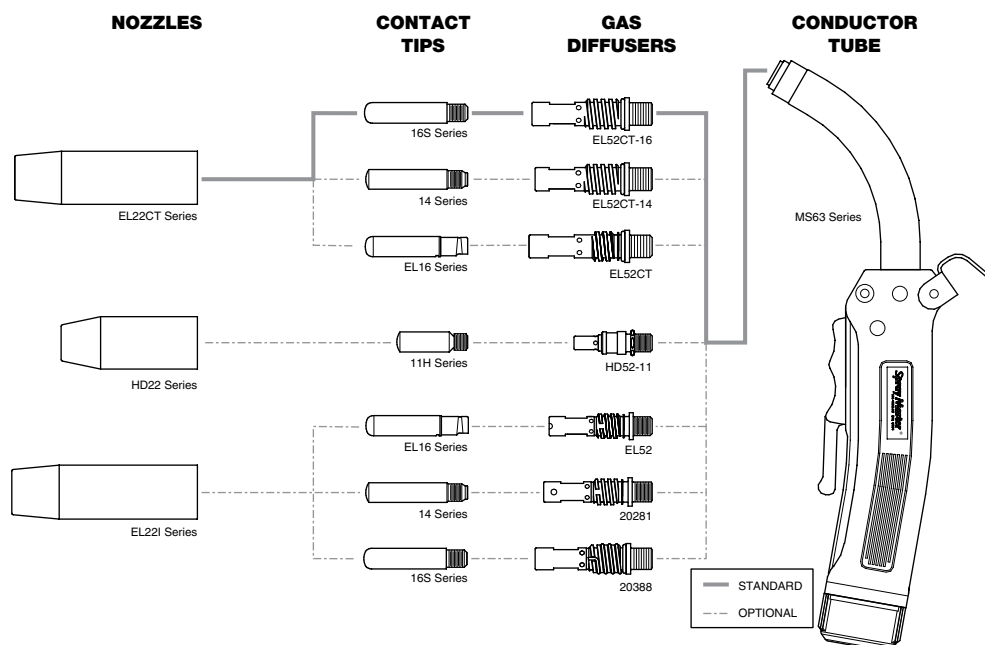
### Conduit Liner – 42 Series

\* Adapter kits are available to fit Tweco rear connection to most wire feeders.

† Fits Lincoln LN7, 8, 9, SP200 - **SOME LINCOLN WIRE FEEDERS ARE ASSEMBLED WITH THEIR K1500-2 GUN RECEIVING BUSHING THAT WILL ACCEPT TWECO STYLE MIG GUNS DIRECT FROM THE FACTORY. CONTROL WIRE PART NO. MS354-DSLJ (STOCK NO. 2060-2137) MUST BE ORDERED SEPARATELY.**

‡ Includes Knucklehead Conductor Tube – Part No. MS63SFLX4-80 (Stock No. 1630-1198). Refer to pages 104-107 for more information on conductor tubes.

Suffix "DSRS" = Dual Schedule Rocker Switch



Refer to pages 88-103 for more complete detail on front end options. Refer to pages 14-15 for parts breakdown information.

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## Spray Master® 450 Amp 80% Duty Cycle, Mixed Gases

### TWECO® STYLE REAR CONNECTOR\*

| Wire Size               | Length      | Part No.     | Stock No. |
|-------------------------|-------------|--------------|-----------|
| Up To 1/16"<br>(1.6 mm) | 12 ft (4 m) | MS412-116    | 1040-1051 |
|                         | 15 ft (5 m) | MS415-116    | 1040-1052 |
|                         | 15 ft (5 m) | MS415-116K4‡ | 1040-1530 |
|                         | 15 ft (5 m) | MS415-116LM  | 1040-1053 |
|                         | 20 ft (6 m) | MS420-116    | 1040-1059 |
|                         | 25 ft (8 m) | MS425-116    | 1040-1058 |

### LINCOLN® STYLE REAR CONNECTOR†

| Wire Size               | Length      | Part No.       | Stock No. |
|-------------------------|-------------|----------------|-----------|
| Up To 1/16"<br>(1.6 mm) | 15 ft (5 m) | MS415L-116     | 1040-1072 |
|                         | 15 ft (5 m) | MS415L-116K4‡  | 1040-1533 |
|                         | 15 ft (5 m) | MS415L-116DSRS | 1040-1538 |
|                         | 15 ft (5 m) | MS415L-116LC   | 1040-1074 |
|                         | 15 ft (5 m) | MS415L-116LM   | 1040-1073 |
|                         | 25 ft (8 m) | MS425L-116     | 1040-1071 |

### MILLER® STYLE REAR CONNECTOR

| Wire Size               | Length      | Part No.       | Stock No. |
|-------------------------|-------------|----------------|-----------|
| Up To 1/16"<br>(1.6 mm) | 10 ft (3 m) | MS410M-116     | 1040-1060 |
|                         | 12 ft (4 m) | MS412M-116     | 1040-1061 |
|                         | 15 ft (5 m) | MS415M-116     | 1040-1062 |
|                         | 15 ft (5 m) | MS415M-116K4‡  | 1040-1531 |
|                         | 15 ft (5 m) | MS415M-116DSRS | 1040-1536 |
|                         | 15 ft (5 m) | MS415M-116LC   | 1040-1092 |
|                         | 15 ft (5 m) | MS415M-116LM   | 1040-1063 |
|                         | 20 ft (6 m) | MS420M-116     | 1040-1064 |
|                         | 25 ft (8 m) | MS425M-116     | 1040-1068 |

### EURO-KWIK STYLE REAR CONNECTOR

| Wire Size               | Length      | Part No.   | Stock No. |
|-------------------------|-------------|------------|-----------|
| Up To 1/16"<br>(1.6 mm) | 12 ft (4 m) | MS412X-116 | 1040-1076 |
|                         | 15 ft (5 m) | MS415X-116 | 1040-1077 |

#### Standard Conductor Tube –

MS64H-60 (Stock No. 1640-1319) on all guns up to 15ft (5 m)  
MS64H-45 (Stock No. 1630-1318) on all gun over 15ft (5 m)

#### Conduit Liner – 44 Series

\* Adapter kits are available to fit Tweco rear connection to most wire feeders.

† Fits Lincoln LN7, 8, 9, SP200 - **SOME LINCOLN WIRE FEEDERS ARE ASSEMBLED WITH THEIR K1500-2 GUN RECEIVING BUSHING THAT WILL ACCEPT TWECO STYLE MIG GUNS DIRECT FROM THE FACTORY. CONTROL WIRE PART NO. MS354-DSLJ (STOCK NO. 2060-2137) MUST BE ORDERED SEPARATELY.**

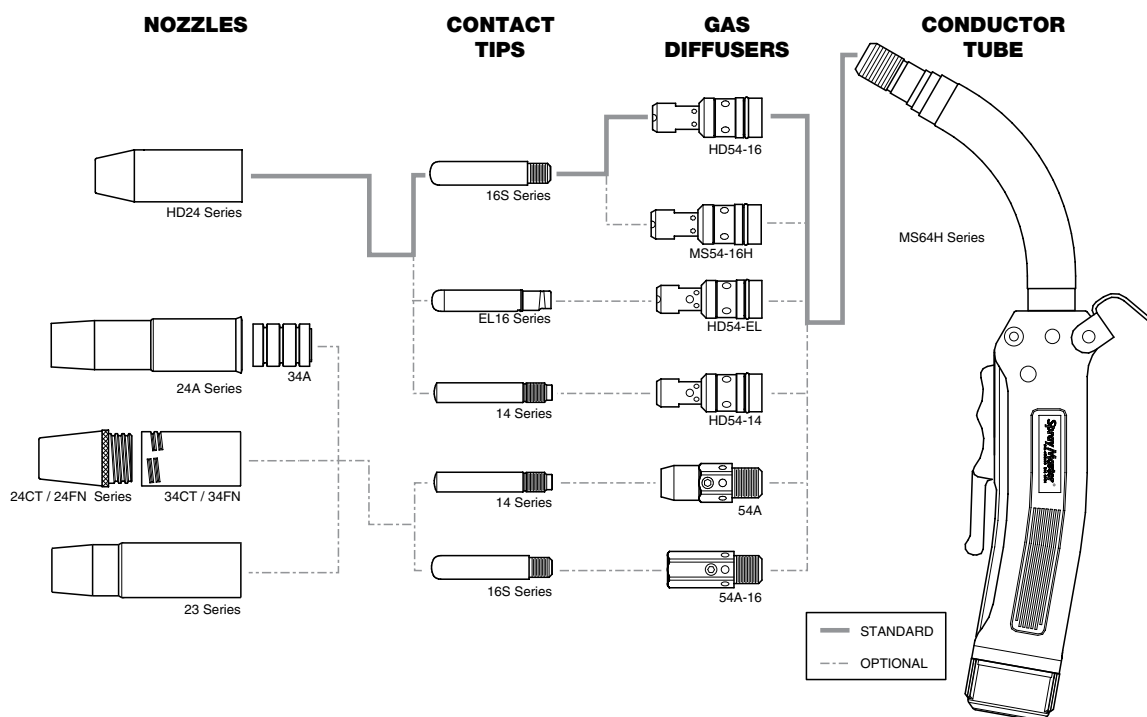
‡ Includes Knucklehead Conductor Tube – Part No. MS64SFLX4-80 (Stock No. 1640-1308). Refer to pages 104-107 for more information on conductor tubes.

Suffix "DSRS" = Dual Schedule Rocker Switch

"LC" = Locking Trigger

"LM" = Long Reach Conductor Tube – Part No. MS64H-60LM (Stock No. 1640-1317)

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Refer to pages 88-103 for more complete detail on front end options. Refer to pages 14-15 for parts breakdown information.

**VICTOR**  
Professional

## SLR 100 SURGE LIMITING REGULATOR

FOR USE WITH SHIELDING GAS

- Designed to reduce gas surge at the activation of the torch or gun, which provides a more constant flow rate of shielding gas to the welding machine.
- Benefit is better weld quality and more consistent gas consumption. (especially when doing multiple short welds or spot welds)
- Easily connects to shielding gas supply hose as well as inlet on welding machine.
- Order part number 0781-1197 today!



Part No. 0781-1197

### SLR 100 SURGE LIMITING REGULATOR

#### SPECIFICATIONS:

FLOW: Preset 50 SCFH (23.6 LPM)

RECOMMENDED INLET PRESSURE: 100 ± 20 PSIG (6.9 ± 1.38 BAR)

MAXIMUM INLET PRESSURE: 200 PSIG (13.8 BAR)

CONNECTIONS: CGA No. 030 RH for Inert Gases, Internal Thread (Inlet), External Thread (Outlet)

#### NOTICE

Note the maximum inlet pressure stamped on the regulator. Do not attach regulator to a system that has a higher pressure than the maximum rated pressure stamped on the regulator.

## SPRAY MASTER® MIG GUN SERIES WITH ELIMINATOR® FRONT END CONSUMABLES



Increase productivity with longer life front end consumables using Tweco® Spray Master MIG gun series with Eliminator front end consumables. Combined with all the advantages of the Spray Master, this new line of MIG guns helps the shop floor lower usage cost with improved operator appeal.

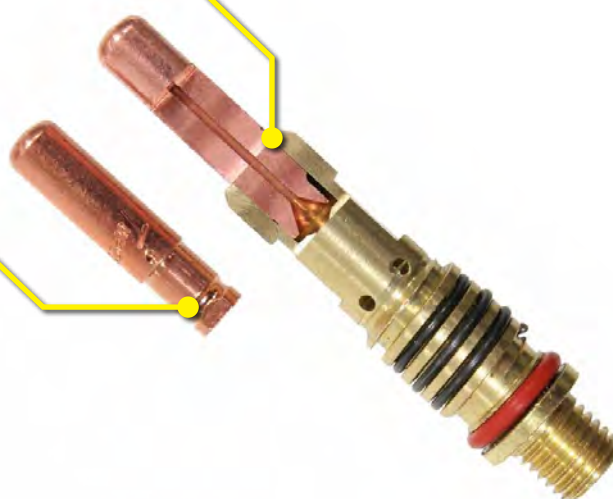
### INCREASE PRODUCTIVITY WITH ELIMINATOR CONTACT TIP

#### Twist it and forget it

- Twist it and it locks in place
- No threads to worry about
- Increased surface contact between contact tip/diffuser for better electrical conductivity

#### Double tip life

- Twist it quarter turn clockwise
- When tip wear point is reached after use, twist it half turn counter-clockwise to expose a new wear point
- This doubles the life of the tip
- Superior locking interface between diffuser/contact tip
- A twist of the Eliminator contact tip in the diffuser engages with the diffuser "tang" providing a positive stop to lock the contact tip in place





## SPRAY MASTER® 250 AMP WITH ELIMINATOR® FRONT END CONSUMABLE

### TWECO® STYLE REAR CONNECTOR

| Wire Size            | Length      | Part No.     | Stock No. |
|----------------------|-------------|--------------|-----------|
| Up To .045" (1.2 mm) | 15 ft (5 m) | MS215-3545EL | 1023-1120 |

### MILLER® STYLE REAR CONNECTOR

| Wire Size            | Length      | Part No.      | Stock No. |
|----------------------|-------------|---------------|-----------|
| Up To .045" (1.2 mm) | 15 ft (5 m) | MS215M-3545EL | 1023-1121 |

### LINCOLN® STYLE REAR CONNECTOR

| Wire Size            | Length      | Part No.      | Stock No. |
|----------------------|-------------|---------------|-----------|
| Up To .045" (1.2 mm) | 15 ft (5 m) | MS215L-3545EL | 1023-1122 |

### EURO-KWIK STYLE REAR CONNECTOR

| Wire Size            | Length      | Part No.      | Stock No. |
|----------------------|-------------|---------------|-----------|
| Up To .045" (1.2 mm) | 15 ft (5 m) | MS215X-3545EL | 1023-1123 |

Standard Conductor Tube – MS63-60 (Stock No. 1630-1189)  
Conduit Liner – 42 Series



EL22I-50 (Stock No. 1260-1602)



EL16T-45 (Stock No. 1160-1604)



EL52 (Stock No. 1560-1110)

## SPRAY MASTER 350 AMP WITH ELIMINATOR FRONT END CONSUMABLE

### TWECO STYLE REAR CONNECTOR

| Wire Size            | Length      | Part No.    | Stock No. |
|----------------------|-------------|-------------|-----------|
| Up To 1/16" (1.6 mm) | 15 ft (5 m) | MS315-116EL | 1036-1725 |

### MILLER STYLE REAR CONNECTOR

| Wire Size            | Length      | Part No.     | Stock No. |
|----------------------|-------------|--------------|-----------|
| Up To 1/16" (1.6 mm) | 15 ft (5 m) | MS315M-116EL | 1036-1726 |

### LINCOLN STYLE REAR CONNECTOR

| Wire Size            | Length      | Part No.     | Stock No. |
|----------------------|-------------|--------------|-----------|
| Up To 1/16" (1.6 mm) | 15 ft (5 m) | MS315L-116EL | 1036-1727 |

### EURO-KWIK STYLE REAR CONNECTOR

| Wire Size            | Length      | Part No.     | Stock No. |
|----------------------|-------------|--------------|-----------|
| Up To 1/16" (1.6 mm) | 15 ft (5 m) | MS315X-116EL | 1036-1728 |

Standard Conductor Tube – MS63-60 (Stock No. 1630-1189)  
Conduit Liner – 44 Series



EL22CT-62 (Stock No. 1260-1627)



EL16-116 (Stock No. 1160-1616)



EL52-CT (Stock No. 1560-1109)

## SPRAY MASTER 450 AMP WITH ELIMINATOR FRONT END CONSUMABLE

### TWECO STYLE REAR CONNECTOR

| Wire Size            | Length      | Part No.    | Stock No. |
|----------------------|-------------|-------------|-----------|
| Up To 1/16" (1.6 mm) | 15 ft (5 m) | MS415-116EL | 1040-1541 |

### MILLER STYLE REAR CONNECTOR

| Wire Size            | Length      | Part No.     | Stock No. |
|----------------------|-------------|--------------|-----------|
| Up To 1/16" (1.6 mm) | 15 ft (5 m) | MS415M-116EL | 1040-1542 |

### LINCOLN STYLE REAR CONNECTOR

| Wire Size            | Length      | Part No.     | Stock No. |
|----------------------|-------------|--------------|-----------|
| Up To 1/16" (1.6 mm) | 15 ft (5 m) | MS415L-116EL | 1040-1543 |

### EURO-KWIK STYLE REAR CONNECTOR

| Wire Size            | Length      | Part No.     | Stock No. |
|----------------------|-------------|--------------|-----------|
| Up To 1/16" (1.6 mm) | 15 ft (5 m) | MS415X-116EL | 1040-1544 |

Standard Conductor Tube – MS64-60S (Stock No. 1640-1342)  
Conduit Liner – 44 Series



EL24CT-62 (Stock No. 1260-1652)



EL16-116 (Stock No. 1160-1616)

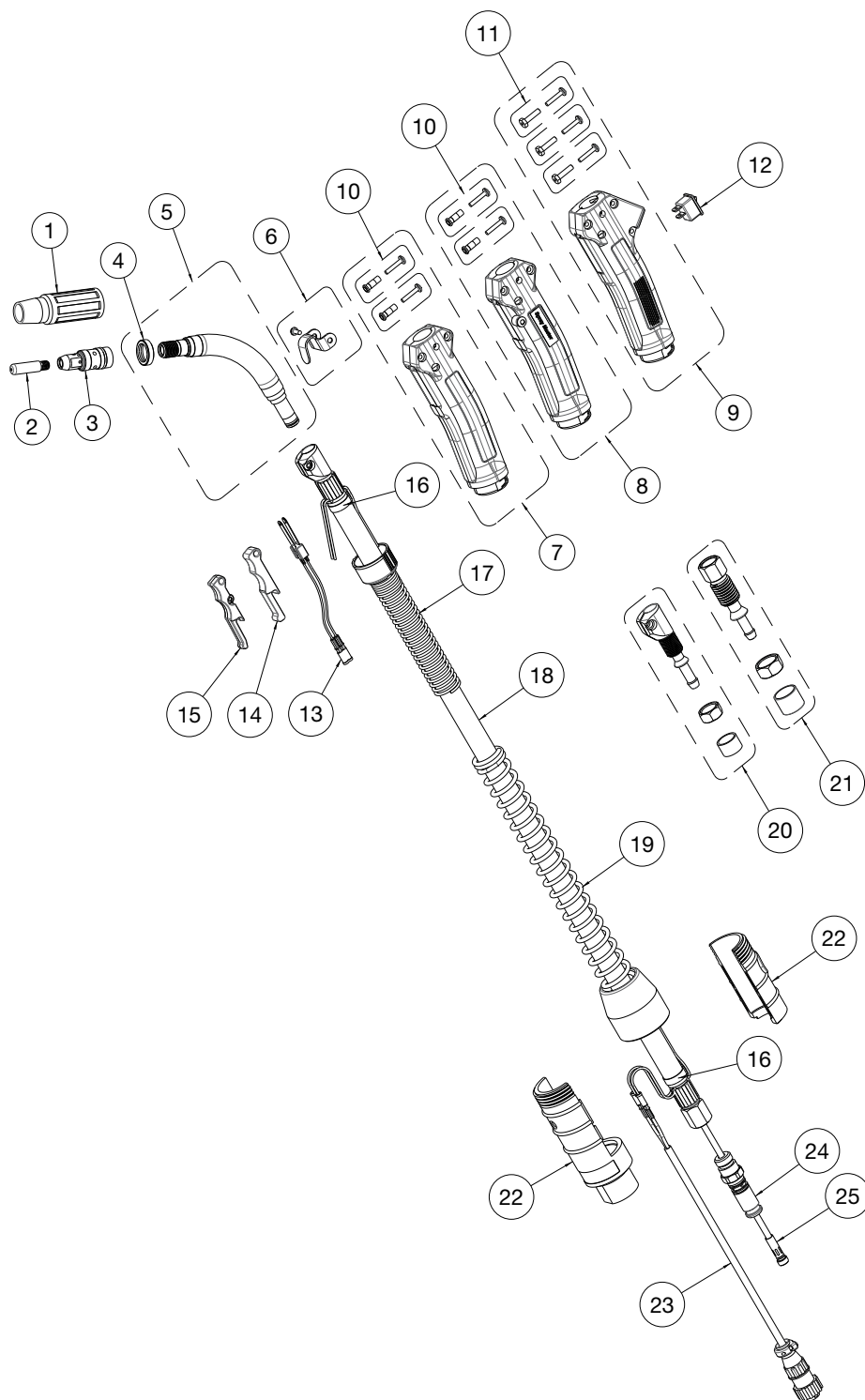


EL54CT-SW (Stock No. 1560-1116)

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# MIG Welding Products & Accessories

## Spray Master® Replacement Parts



| SPRAY MASTER® MIG GUN REPLACEMENT PARTS LIST |                                                         |                        |                        |                     |
|----------------------------------------------|---------------------------------------------------------|------------------------|------------------------|---------------------|
| #                                            | DESCRIPTION                                             | (PART NO. / STOCK NO.) |                        |                     |
|                                              |                                                         | 250 Amp                | 350 Amp                | 450 Amp             |
| 1                                            | Nozzles                                                 | Refer to Pages 93-101  |                        |                     |
| 2                                            | Contact Tips                                            | Refer to Pages 90-92   |                        |                     |
| 3                                            | Diffusers                                               | Refer to Pages 102-103 |                        |                     |
| 4                                            | Nozzle Insulators                                       | 63J-3<br>1630-1121     |                        | 66J-3<br>1660-1836  |
| 5                                            | Conductor Tubes                                         | Refer to Pages 104-107 |                        |                     |
| 6                                            | Gun Hanger                                              | 152<br>2020-2152       |                        |                     |
| 7                                            | Handle (Standard)                                       | MS84<br>2060-2130      |                        |                     |
| 8                                            | Handle (Locking Trigger)                                | MS84LC<br>2060-2127    |                        |                     |
| 9                                            | Handle (Dual Schedule)                                  | MS84DSRS<br>2060-2128  |                        |                     |
| 10                                           | Binder Posts & Screws                                   | ELC124FM<br>2060-2646  |                        |                     |
| 11                                           | Binder Posts & Screws                                   | 122FMS<br>2020-2123    |                        |                     |
| 12                                           | Rocker Switch (Dual Schedule)                           | MS94RSW<br>2060-2694   |                        |                     |
| 13                                           | Trigger Blade Assembly                                  | ELC94-BL<br>2060-2671  |                        |                     |
| 14                                           | Trigger (Standard)                                      | ELC94<br>2060-2647     |                        |                     |
| 15                                           | Trigger (Locking)                                       | MS94LC<br>2060-2693    |                        |                     |
| 16                                           | Cable Clamp                                             | 136<br>2060-2690       |                        |                     |
| 17                                           | Front Strain Relief Spring & Cap                        | MS144<br>2060-2131     |                        |                     |
| 18                                           | Cablehoz® Assembly (Direct Plug)                        | MS210<br>1720-2115     | MS310<br>1730-2035     | MS410<br>1740-2115  |
|                                              |                                                         | MS212<br>1720-2116     | MS312<br>1730-2036     | MS412<br>1740-2116  |
|                                              |                                                         | MS215<br>1720-2117     | MS315<br>1730-2037     | MS415<br>1740-2117  |
|                                              |                                                         | MS225<br>1720-2118     | MS325<br>1730-2038     | MS425<br>1740-2118  |
|                                              | Cablehoz Assembly (Euro)                                | MS210X<br>1720-2106    | MS310X<br>1730-2010    | MS410X<br>1740-2121 |
|                                              |                                                         | MS212X<br>1720-2107    | MS312X<br>1730-2011    | MS412X<br>1740-2122 |
|                                              |                                                         | MS215X<br>1720-2108    | MS315X<br>1730-2012    | MS415X<br>1740-2123 |
|                                              |                                                         | MS225X<br>1720-2109    | MS325X<br>1730-2013    | MS425X<br>1740-2124 |
| 19                                           | Rear Strain Relief Spring & Cap                         | 235RSSR<br>2060-2035   |                        |                     |
| 20                                           | Front Cable Connector Repair Kit (Direct Plug and Euro) | MS102-RK<br>2060-2132  | MS104-RK<br>2060-2133  |                     |
| 21                                           | Rear Cable Connector Repair Kit (Direct Plug)           | EPG172-H<br>2020-2191  | 350-170HK<br>2035-2169 |                     |
|                                              | Rear Cable Connector Repair Kit (Euro)                  | 172X-M<br>2020-2181    | 174X-M<br>2040-2181    |                     |
| 22                                           | Rear Case (Direct Plug)                                 | C6RC<br>2060-2041      |                        |                     |
|                                              | Rear Case (Euro)                                        | X6RC<br>2060-2006      |                        |                     |
| 23                                           | Miller® Control Wire                                    | MS354-DSM<br>2060-2140 |                        |                     |
| 24                                           | Connector Plug                                          | Refer to Page 86       |                        |                     |
| 25                                           | Conduit Assembly                                        | Refer to Pages 108-109 |                        |                     |
| NS                                           | Protective Cable Wrap, 50 ft (15 m) per box             | TCR50<br>9900-1150     |                        |                     |

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# MIG Welding Products & Accessories

## PROFESSIONAL NO. MIG GUN SERIES

### FEATURES & BENEFITS

#### Operator appeal

- industry standard for 40+ years
- oval handle shape reduces operator fatigue

#### Durable & dependable for industrial applications

- heavy-duty design
- high impact resistant handle and components
- three layer conductor tube construction (copper tube/silicon-resin glass insulator/metal jacket)

#### Field repairable

- split-half handle case provides access for ease of repair
- easily repair Cablehoz® - no additional connectors required

#### Improved performance with longer life consumables

- wide selection of front end consumables available
- heavy-duty contact tips in high heat applications offered

#### Lower inventory carrying costs

- interchangeable front end consumables between Tweco® Spray Master® series and Tweco Professional No. Series



| MODEL                     | OUTPUT         |                            |                       | PROCESS |          |                         |                          | STANDARD OPTIONS |                 |                |                                     | APPLICATION    |                 |                |
|---------------------------|----------------|----------------------------|-----------------------|---------|----------|-------------------------|--------------------------|------------------|-----------------|----------------|-------------------------------------|----------------|-----------------|----------------|
|                           | Current (Amps) | Duty Cycle CO <sub>2</sub> | Wire Diameter in (mm) | MIG     | Aluminum | Flux-Cored Gas Shielded | Flux-Cored Self Shielded | Dual Schedule    | Locking Trigger | Rear Connector | Knucklehead Flexible Conductor Tube | Light Duty Fab | Medium Duty Fab | Heavy Duty Fab |
| Professional Choice No. 1 | 180            | 60%                        | Up to .045" (1.2 mm)  | ●       | ●        |                         |                          |                  |                 | ●              | ●                                   | ●              |                 |                |
| Professional Choice No. 2 | 200            | 60%                        | Up to .045" (1.2 mm)  | ●       | ●        |                         |                          |                  |                 | ●              | ●                                   |                | ●               |                |
| Professional Choice No. 3 | 300            | 60%                        | Up to 1/16" (1.6 mm)  | ●       | ●        |                         |                          | ●                | ●               | ●              | ●                                   |                | ●               |                |
| Professional Choice No. 4 | 400            | 60%                        | Up to 5/64" (2.0 mm)  | ●       | ●        | ●                       |                          | ●                | ●               | ●              | ●                                   |                | ●               |                |
| Professional Choice No. 5 | 500            | 60%                        | Up to 3/32" (2.4 mm)  | ●       |          | ●                       | ●                        | ●                | ●               | ●              |                                     |                |                 | ●              |
| Professional Choice No. 6 | 600            | 60%                        | Up to 3/32" (2.4 mm)  | ●       |          | ●                       | ●                        |                  |                 | ●              |                                     |                |                 | ●              |
| MINI-MIG 160 Amp          | 160            | 60%                        | Up to .035" (0.9 mm)  | ●       | ●        | ●                       | ●                        |                  |                 | ●              | ●                                   | ●              |                 |                |



# MIG Welding Products & Accessories

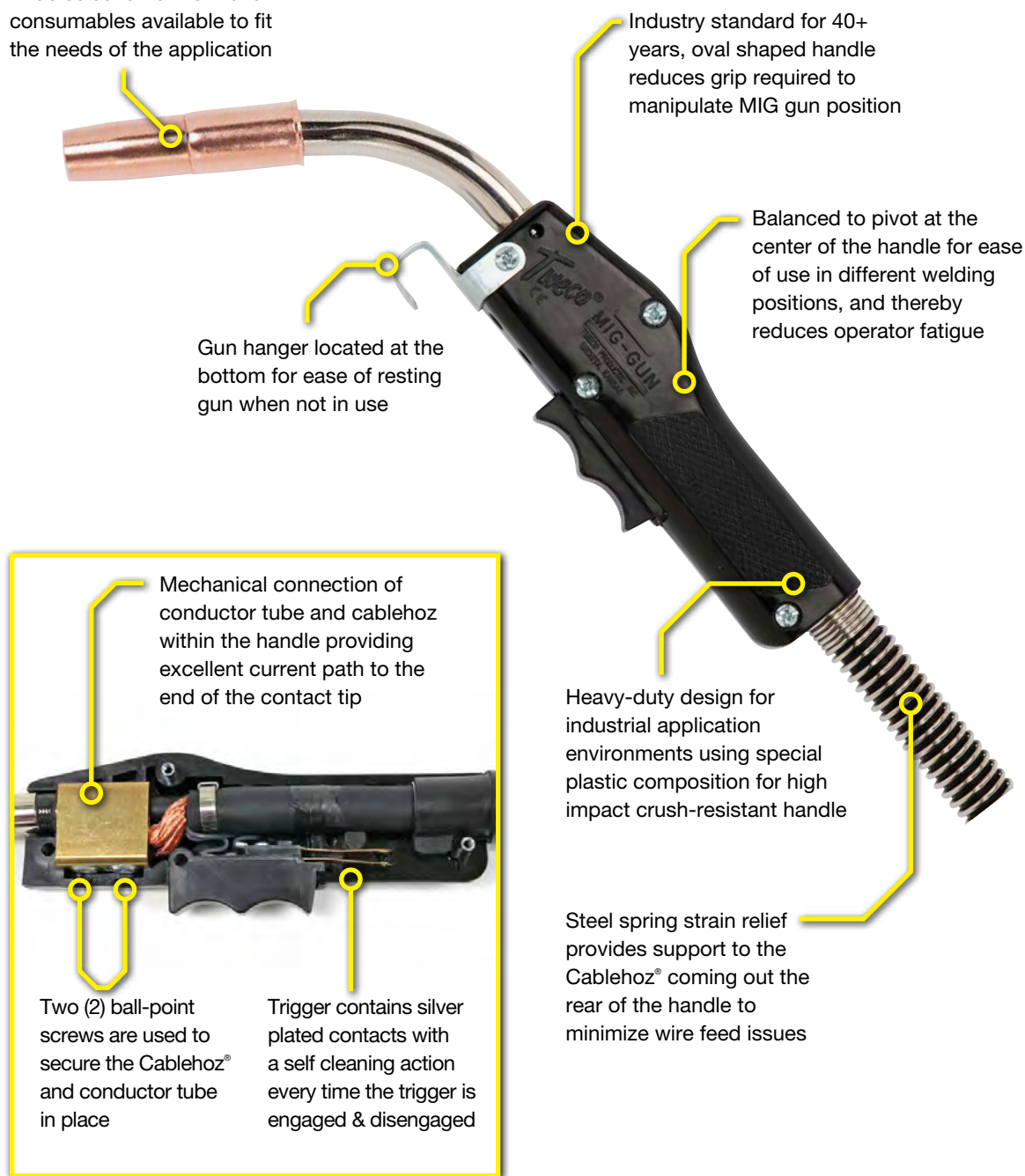
## PROFESSIONAL NO. SERIES HANDLE DESIGN & STYLE

### PERFORMANCE

Wide selection of front end consumables available to fit the needs of the application

### DURABILITY

### EASE OF USE



# MIG Welding Products & Accessories

## Professional No.1 180 Amp 60% Duty Cycle, CO<sub>2</sub>



### TWECO® STYLE REAR CONNECTOR\*

| Wire Size               | Length      | Part No. | Stock No. |
|-------------------------|-------------|----------|-----------|
| Up To .035"<br>(0.9 mm) | 10 ft (3 m) | 110-3035 | 1010-1111 |
|                         | 12 ft (4 m) | 112-3035 | 1010-1112 |
|                         | 15 ft (5 m) | 115-3035 | 1010-1113 |
|                         | 20 ft (6 m) | 120-3035 | 1010-1114 |
| Up To .045"<br>(1.2 mm) | 15 ft (5 m) | 115-4045 | 1010-1123 |
|                         | 20 ft (6 m) | 120-4045 | 1010-1124 |

### LINCOLN® STYLE REAR CONNECTOR†

| Wire Size               | Length      | Part No.  | Stock No. |
|-------------------------|-------------|-----------|-----------|
| Up To .035"<br>(0.9 mm) | 15 ft (5 m) | L115-3035 | 1010-1145 |

### EURO-KWIK STYLE REAR CONNECTOR

| Wire Size               | Length      | Part No.  | Stock No. |
|-------------------------|-------------|-----------|-----------|
| Up To .045"<br>(1.2 mm) | 12 ft (4 m) | X112-4045 | 1010-1622 |
|                         | 15 ft (5 m) | X115-4045 | 1010-1623 |

### MILLER® STYLE REAR CONNECTOR

| Wire Size               | Length      | Part No.  | Stock No. |
|-------------------------|-------------|-----------|-----------|
| Up To .035"<br>(0.9 mm) | 10 ft (3 m) | M110-3035 | 1010-1131 |
|                         | 12 ft (4 m) | M112-3035 | 1010-1133 |
|                         | 15 ft (5 m) | M115-3035 | 1010-1135 |

#### Standard Conductor Tube –

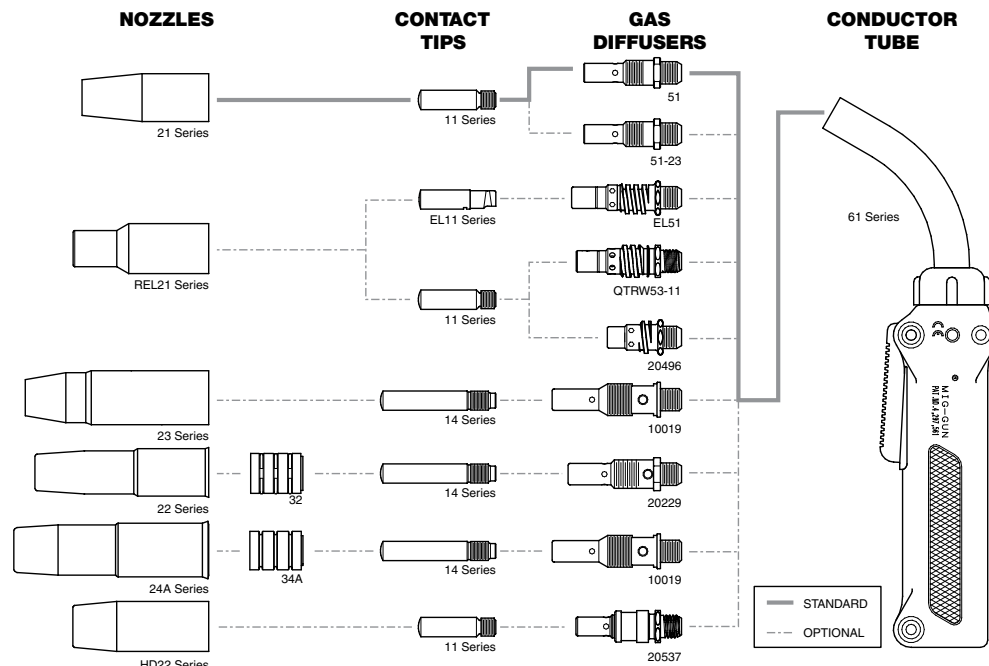
61-60 (Stock No. 1610-1102) on all guns up to 15 ft (5 m)

61-45 (Stock No. 1610-1101) on all gun over 15 ft (5 m)

#### Conduit Liner – 42 Series

\* Adapter kits are available to fit Tweco rear connection to most wire feeders.

† Fits Lincoln LN7, 8, 9, SP200 - **SOME LINCOLN WIRE FEEDERS ARE ASSEMBLED WITH THEIR K1500-2 GUN RECEIVING BUSHING THAT WILL ACCEPT TWECO STYLE MIG GUNS DIRECT FROM THE FACTORY. CONTROL WIRE PART NO. MS354-DSLJ (STOCK NO. 2060-2137) MUST BE ORDERED SEPARATELY.**



Refer to pages 88-103 for more complete detail on front end options. Refer to pages 26-27 for parts breakdown information.

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## Professional No.2 200 Amp 60% Duty Cycle, CO<sub>2</sub>

| TWECO® STYLE REAR CONNECTOR                                                                |             |                            |                            |
|--------------------------------------------------------------------------------------------|-------------|----------------------------|----------------------------|
| Wire Size                                                                                  | Length      | Part No.                   | Stock No.                  |
| Up To .035"<br>(0.9 mm)                                                                    | 10 ft (3 m) | 210-3035                   | 1020-1111                  |
|                                                                                            | 12 ft (4 m) | 212-3035                   | 1020-1112                  |
|                                                                                            | 15 ft (5 m) | 215-3035                   | 1020-1113                  |
|                                                                                            | 20 ft (6 m) | 220-3035                   | 1020-1114                  |
|                                                                                            | 25 ft (8 m) | 225-3035                   | 1020-1115                  |
| Up To .045"<br>(1.2 mm)<br><b>Knucklehead<br/>Flexible**<br/>Conductor Tube<br/>Option</b> | 15 ft (5 m) | 215-4045<br><br>215-4045K4 | 1020-1123<br><br>1020-1660 |
| Up To .045"<br>(1.2 mm)                                                                    | 25 ft (8 m) | 225-4045                   | 1020-1125                  |

| MILLER® STYLE REAR CONNECTOR                                                               |             |                              |                            |
|--------------------------------------------------------------------------------------------|-------------|------------------------------|----------------------------|
| Wire Size                                                                                  | Length      | Part No.                     | Stock No.                  |
| Up To .035"<br>(0.9 mm)                                                                    | 10 ft (3 m) | M210-3035                    | 1020-1130                  |
|                                                                                            | 12 ft (4 m) | M212-3035                    | 1020-1132                  |
|                                                                                            | 15 ft (5 m) | M215-3035                    | 1020-1134                  |
| Up To .045"<br>(1.2 mm)                                                                    | 10 ft (3 m) | M210-4045                    | 1020-1131                  |
|                                                                                            | 12 ft (4 m) | M212-4045                    | 1020-1133                  |
| Up To .045"<br>(1.2 mm)<br><b>Knucklehead<br/>Flexible**<br/>Conductor Tube<br/>Option</b> | 15 ft (5 m) | M215-4045<br><br>M215-4045K4 | 1020-1135<br><br>1020-1661 |

| TWECO STYLE REAR CONNECTOR*† |             |            |           |
|------------------------------|-------------|------------|-----------|
| Wire Size                    | Length      | Part No.   | Stock No. |
| Up To .045"<br>(1.2 mm)      | 12 ft (4 m) | 212FN-4045 | 1020-1322 |

| EURO-KWIK STYLE REAR CONNECTOR |             |           |           |
|--------------------------------|-------------|-----------|-----------|
| Wire Size                      | Length      | Part No.  | Stock No. |
| Up To .045"<br>(1.2 mm)        | 12 ft (4 m) | X212-4045 | 1020-1622 |
|                                | 15 ft (5 m) | X215-4045 | 1020-1623 |

| LINCOLN® STYLE REAR CONNECTOR‡ |             |           |           |
|--------------------------------|-------------|-----------|-----------|
| Wire Size                      | Length      | Part No.  | Stock No. |
| Up To .035"<br>(0.9 mm)        | 10 ft (3 m) | L210-3035 | 1020-1140 |
|                                | 12 ft (4 m) | L212-3035 | 1020-1142 |
|                                | 15 ft (5 m) | L215-3035 | 1020-1144 |

| EURO-KWIK STYLE REAR CONNECTOR† |             |             |           |
|---------------------------------|-------------|-------------|-----------|
| Wire Size                       | Length      | Part No.    | Stock No. |
| Up To .045"<br>(1.2 mm)         | 12 ft (4 m) | X212FN-4045 | 1020-1652 |

**Standard Conductor Tube –**  
62J-60 (Stock No. 1620-1301) on all guns up to 15 ft (5 m)  
62J-45 (Stock No. 1620-1300) on all gun over 15 ft (5 m)

**Conduit Liner – 42 Series**

\* Adapter kits are available to fit Tweco rear connection to most wire feeders.

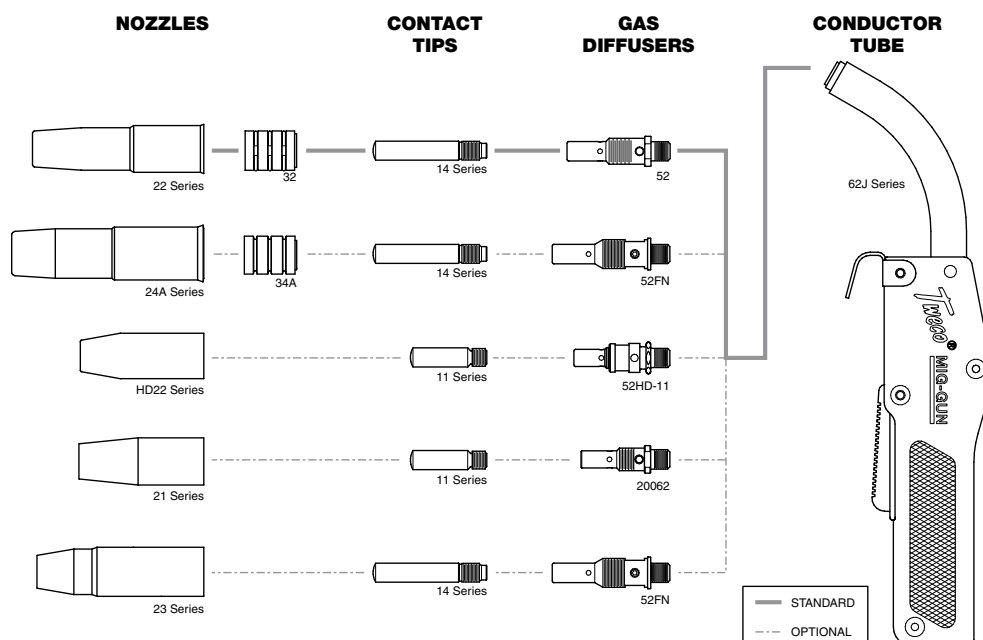
‡ Fits Lincoln LN7, 8, 9, SP200 - **SOME LINCOLN WIRE FEEDERS ARE ASSEMBLED WITH THEIR K1500-2 GUN RECEIVING BUSHING THAT WILL ACCEPT TWECO STYLE MIG GUNS DIRECT FROM THE FACTORY. CONTROL WIRE PART NO. MS354-DSLJ (STOCK NO. 2060-2137) MUST BE ORDERED SEPARATELY.**

† FN guns are furnished with 24CT nozzles, 34CT insulators, 14H series contact tip, and fiber insulated conductor tube – Part No. 62A-60 (Stock No. 1620-1102).

\*\* Includes Knucklehead Conductor Tube – Part No. 62SFLX4-80 (Stock No. 1620-1106) - See pages 104-107 for more information on Conductor Tubes.

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# MIG Welding Products & Accessories



Refer to pages 88-103 for more complete detail on front end options. Refer to pages 26-27 for parts breakdown information.

## Manual Welding Products & Accessories

Tweco® offers a complete line of ground clamps, cable connectors, and cable lugs for your welding application. Refer to pages 126-136 in this catalog for more detail.







## Professional No.3 300 Amp 60% Duty Cycle, CO<sub>2</sub>

| TWECO® STYLE REAR CONNECTOR* |             |          |           |
|------------------------------|-------------|----------|-----------|
| Wire Size                    | Length      | Part No. | Stock No. |
| Up To .045"<br>(1.2 mm)      | 10 ft (3 m) | 310-3545 | 1030-1101 |
|                              | 12 ft (4 m) | 312-3545 | 1030-1102 |
|                              | 15 ft (5 m) | 315-3545 | 1030-1103 |
|                              | 20 ft (6 m) | 320-3545 | 1030-1104 |
|                              | 25 ft (8 m) | 325-3545 | 1030-1105 |
| Up To 1/16"<br>(1.6 mm)      | 15 ft (5 m) | 315-1116 | 1030-1113 |
|                              | 25 ft (8 m) | 325-1116 | 1030-1115 |

| LINCOLN® STYLE REAR CONNECTOR† |             |           |           |
|--------------------------------|-------------|-----------|-----------|
| Wire Size                      | Length      | Part No.  | Stock No. |
| Up To .045"<br>(1.2 mm)        | 15 ft (5 m) | L315-3545 | 1030-1146 |

| EURO-KWIK STYLE REAR CONNECTOR |             |           |           |
|--------------------------------|-------------|-----------|-----------|
| Wire Size                      | Length      | Part No.  | Stock No. |
| Up To .045"<br>(1.2 mm)        | 12 ft (4 m) | X312-3545 | 1030-1602 |

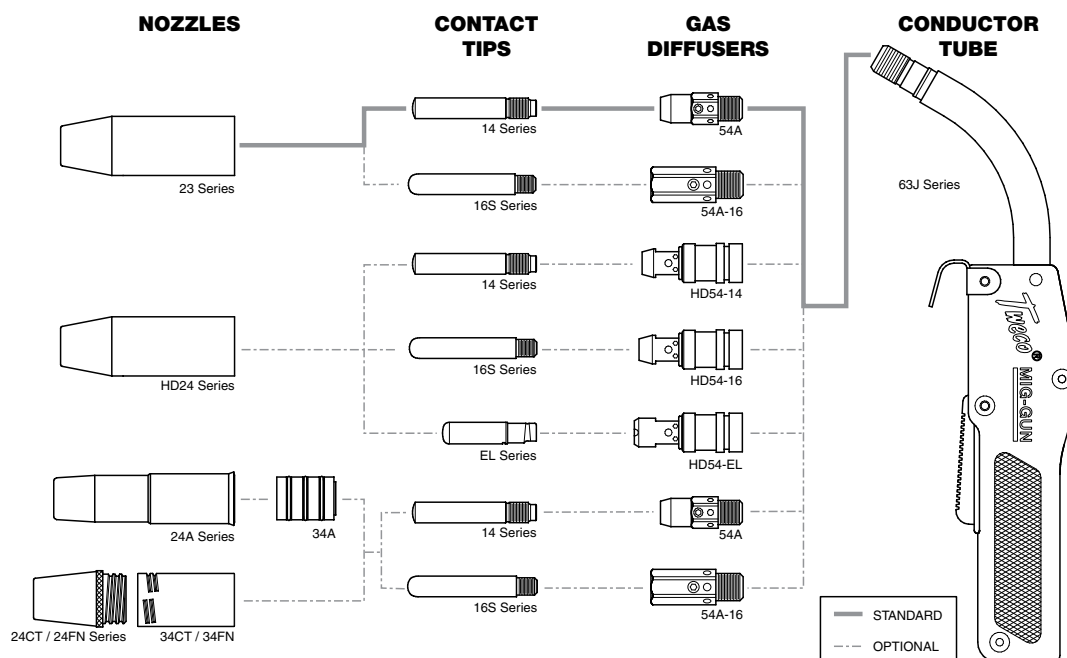
| MILLER® STYLE REAR CONNECTOR |             |           |           |
|------------------------------|-------------|-----------|-----------|
| Wire Size                    | Length      | Part No.  | Stock No. |
| Up To .045"<br>(1.2 mm)      | 10 ft (3 m) | M310-3545 | 1030-1130 |
|                              | 12 ft (4 m) | M312-3545 | 1030-1133 |
|                              | 15 ft (5 m) | M315-3545 | 1030-1136 |

**Standard Conductor Tube –**  
63J-60 (Stock No. 1630-1111) on all guns up to 15 ft (5 m)  
63J-45 (Stock No. 1630-1110) on all gun over 15 ft (5 m)

**Conduit Liner – 44 Series**

\* Adapter kits are available to fit Tweco rear connection to most wire feeders.

† Fits Lincoln LN7, 8, 9, SP200 - **SOME LINCOLN WIRE FEEDERS ARE ASSEMBLED WITH THEIR K1500-2 GUN RECEIVING BUSHING THAT WILL ACCEPT TWECO STYLE MIG GUNS DIRECT FROM THE FACTORY. CONTROL WIRE PART NO. MS354-DSLJ (STOCK NO. 2060-2137) MUST BE ORDERED SEPARATELY.**



Refer to pages 88-103 for more complete detail on front end options. Refer to pages 26-27 for parts breakdown information.

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# MIG Welding Products & Accessories

## Professional No.4 400 Amp 60% Duty Cycle, CO<sub>2</sub>



### TWECO® STYLE REAR CONNECTOR\*

| Wire Size               | Length      | Part No.        | Stock No. |
|-------------------------|-------------|-----------------|-----------|
| Up To .045"<br>(1.2 mm) | 10 ft (3 m) | <b>410-3545</b> | 1040-1101 |
|                         | 12 ft (4 m) | <b>412-3545</b> | 1040-1102 |
| Up To .045"<br>(1.2 mm) | 20 ft (6 m) | <b>420-3545</b> | 1040-1104 |
|                         | 25 ft (8 m) | <b>425-3545</b> | 1040-1105 |
| Up To 1/16"<br>(1.6 mm) | 10 ft (3 m) | <b>410-116</b>  | 1040-1111 |
|                         | 12 ft (4 m) | <b>412-116</b>  | 1040-1112 |
|                         | 15 ft (5 m) | <b>415-116</b>  | 1040-1113 |
|                         | 20 ft (6 m) | <b>420-116</b>  | 1040-1114 |
|                         | 25 ft (8 m) | <b>425-116</b>  | 1040-1115 |
| 5/64"<br>(2.0 mm)       | 15 ft (5 m) | <b>415-564</b>  | 1040-1123 |

### TWECO STYLE REAR CONNECTOR†

| Wire Size               | Length      | Part No.          | Stock No. |
|-------------------------|-------------|-------------------|-----------|
| Up To .045"<br>(1.2 mm) | 15 ft (5 m) | <b>DS415-3545</b> | 1040-1503 |

### LINCOLN® STYLE REAR CONNECTORS‡

| Wire Size                                                                        | Length      | Part No.           | Stock No. |
|----------------------------------------------------------------------------------|-------------|--------------------|-----------|
| Up To .045"<br>(1.2 mm)                                                          | 12 ft (4 m) | <b>L412-3545</b>   | 1040-1143 |
| Up To .045"<br>(1.2 mm)<br>Knucklehead<br>Flexible**<br>Conductor Tube<br>Option | 15 ft (5 m) | <b>L415-3545</b>   | 1040-1146 |
|                                                                                  |             | <b>L415-3545K4</b> | 1040-1689 |
| Up To 1/16"<br>(1.6 mm)                                                          | 15 ft (5 m) | <b>L415-116</b>    | 1040-1147 |

#### Standard Conductor Tube –

64J-60 (Stock No. 1640-1106) on all guns up to 15 ft (5 m)

64J-45 (Stock No. 1640-1105) on all gun over 15 ft (5 m)

#### Conduit Liner – 44 Series

\* Adapter kits are available to fit Tweco rear connection to most wire feeders.

† FN guns are furnished with 24CT nozzles, 34CT insulators, 14H series contact tip, and fiber insulated conductor tube – Part No. 64A-60 (Stock No. 1640-1102).

‡ DS guns are furnished with dual schedule triggers and connectors.

§ Fits Lincoln LN7, 8, 9, SP200 - **SOME LINCOLN WIRE FEEDERS ARE ASSEMBLED WITH THEIR K1500-2 GUN RECEIVING BUSHING THAT WILL ACCEPT TWECO STYLE MIG GUNS DIRECT FROM THE FACTORY. CONTROL WIRE PART NO. MS354-DSLJ (STOCK NO. 2060-2137) MUST BE ORDERED SEPARATELY.**

\*\* Includes Knucklehead Conductor Tube – Part No. 64SFLX4-80 (Stock No. 1640-1113) - See pages 104-107 for more information on Conductor Tubes.

### MILLER® STYLE REAR CONNECTOR

| Wire Size                                                                        | Length      | Part No.           | Stock No. |
|----------------------------------------------------------------------------------|-------------|--------------------|-----------|
| Up To .045"<br>(1.2 mm)                                                          | 10 ft (3 m) | <b>M410-3545</b>   | 1040-1130 |
|                                                                                  | 12 ft (4 m) | <b>M412-3545</b>   | 1040-1133 |
| Up To .045"<br>(1.2 mm)<br>Knucklehead<br>Flexible**<br>Conductor Tube<br>Option | 15 ft (5 m) | <b>M415-3545</b>   | 1040-1136 |
|                                                                                  |             | <b>M415-3545K4</b> | 1040-1688 |
| Up To .045"<br>(1.2 mm)                                                          | 20 ft (6 m) | <b>M420-3545</b>   | 1040-1126 |
|                                                                                  | 25 ft (8 m) | <b>M425-3545</b>   | 1040-1129 |
| Up To 1/16"<br>(1.6 mm)                                                          | 10 ft (3 m) | <b>M410-116</b>    | 1040-1131 |
|                                                                                  | 12 ft (4 m) | <b>M412-116</b>    | 1040-1134 |
|                                                                                  | 15 ft (5 m) | <b>M415-116</b>    | 1040-1137 |
|                                                                                  | 20 ft (6 m) | <b>M420-116</b>    | 1040-1127 |
|                                                                                  | 25 ft (8 m) | <b>M425-116</b>    | 1040-1128 |
| 5/64"<br>(2.0 mm)                                                                | 15 ft (5 m) | <b>M415-564</b>    | 1040-1138 |

### EURO-KWIK STYLE REAR CONNECTOR

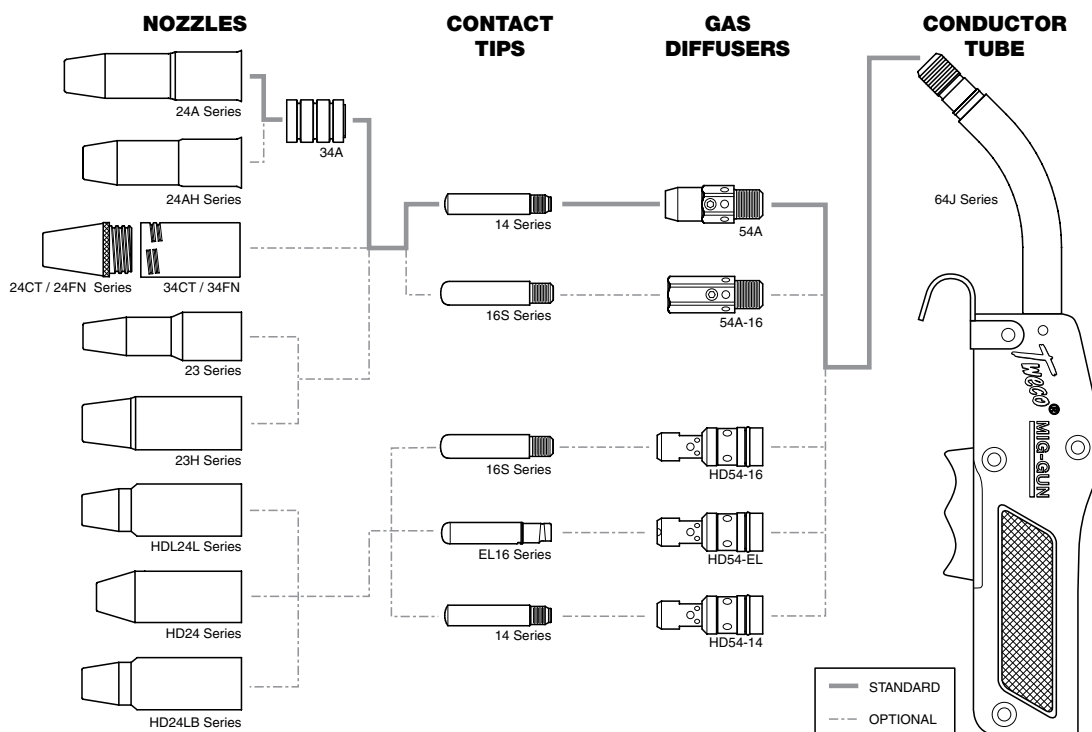
| Wire Size               | Length      | Part No.         | Stock No. |
|-------------------------|-------------|------------------|-----------|
| Up To .045"<br>(1.2 mm) | 12 ft (4 m) | <b>X412-3545</b> | 1040-1602 |
|                         | 15 ft (5 m) | <b>X415-3545</b> | 1040-1603 |
|                         | 25 ft (8 m) | <b>X425-3545</b> | 1040-1605 |
| Up To 1/16"<br>(1.6 mm) | 15 ft (5 m) | <b>X415-116</b>  | 1040-1613 |

### EURO-KWIK STYLE REAR CONNECTOR†

| Wire Size               | Length      | Part No.          | Stock No. |
|-------------------------|-------------|-------------------|-----------|
| Up To 1/16"<br>(1.6 mm) | 12 ft (4 m) | <b>X412FN-116</b> | 1040-1642 |

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# MIG Welding Products & Accessories



Refer to pages 88-103 for more complete detail on front end options. Refer to pages 26-27 for parts breakdown information.

**Arcair**  
Professional

## Metal Working Chemicals

Metal working chemicals are available from Arcair®. Full line of anti-spatter compounds, aluminum cleaners, and zinc-rich cold galvanizing compound. Contact Tweco® Customer Care at 800-426-1888 for more details.



# MIG Welding Products & Accessories



## Professional No.5 500 Amp 60% Duty Cycle, CO<sub>2</sub>

### TWECO® STYLE REAR CONNECTOR\*

| Wire Size               | Length      | Part No. | Stock No. |
|-------------------------|-------------|----------|-----------|
| Up To 1/16"<br>(1.6 mm) | 15 ft (5 m) | 515-116  | 1050-1113 |
|                         | 25 ft (8 m) | 525-116  | 1050-1115 |
| 3/32"<br>(2.4 mm)       | 10 ft (3 m) | 510-332  | 1050-1131 |
|                         | 15 ft (5 m) | 515-332  | 1050-1133 |

### MILLER® STYLE REAR CONNECTOR

| Wire Size               | Length      | Part No. | Stock No. |
|-------------------------|-------------|----------|-----------|
| Up To 1/16"<br>(1.6 mm) | 15 ft (5 m) | M515-116 | 1050-1173 |

### LINCOLN® STYLE REAR CONNECTOR†

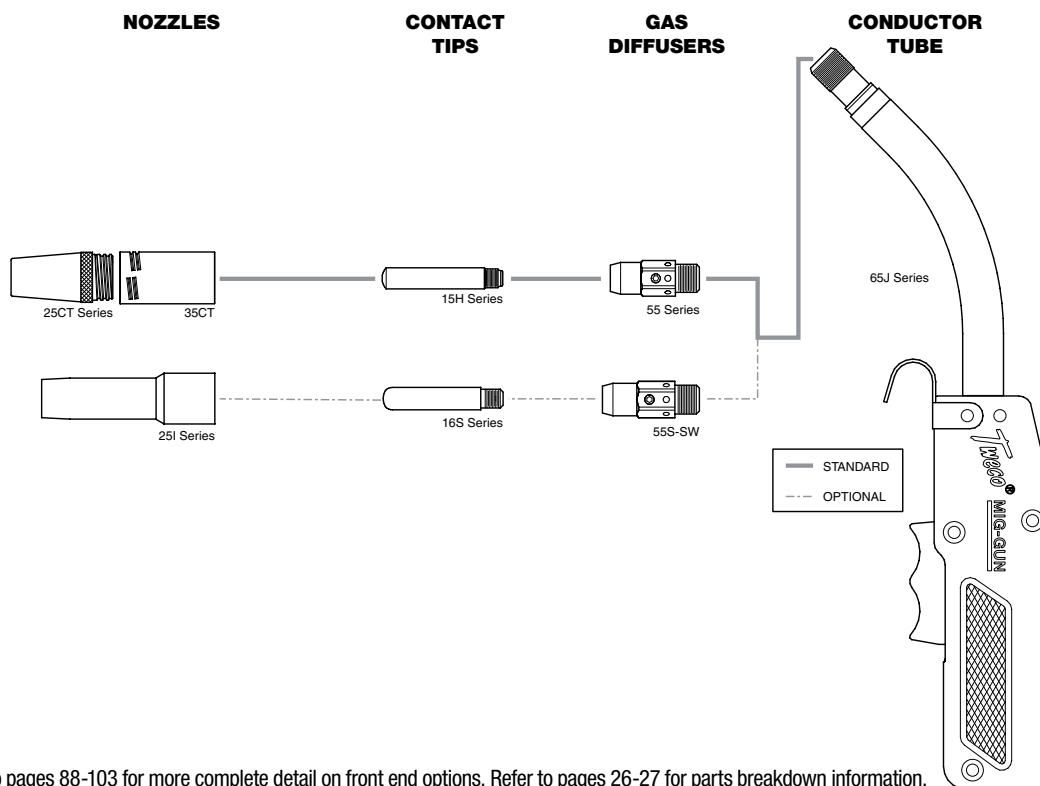
| Wire Size         | Length      | Part No. | Stock No. |
|-------------------|-------------|----------|-----------|
| 3/32"<br>(2.4 mm) | 10 ft (3 m) | L515-332 | 1050-1642 |

Standard Conductor Tube – 66J-60 (Stock No. 1660-1826)

Conduit Liner – 45 Series

\* Adapter kits are available to fit Tweco rear connection to most wire feeders.

† Fits Lincoln LN7, 8, 9, SP200 - **SOME LINCOLN WIRE FEEDERS ARE ASSEMBLED WITH THEIR K1500-2 GUN RECEIVING BUSHING THAT WILL ACCEPT TWECO STYLE MIG GUNS DIRECT FROM THE FACTORY. CONTROL WIRE PART NO. MS354-DSLJ (STOCK NO. 2060-2137) MUST BE ORDERED SEPARATELY.**



Refer to pages 88-103 for more complete detail on front end options. Refer to pages 26-27 for parts breakdown information.

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## Professional No.6 600 Amp 60% Duty Cycle, CO<sub>2</sub>

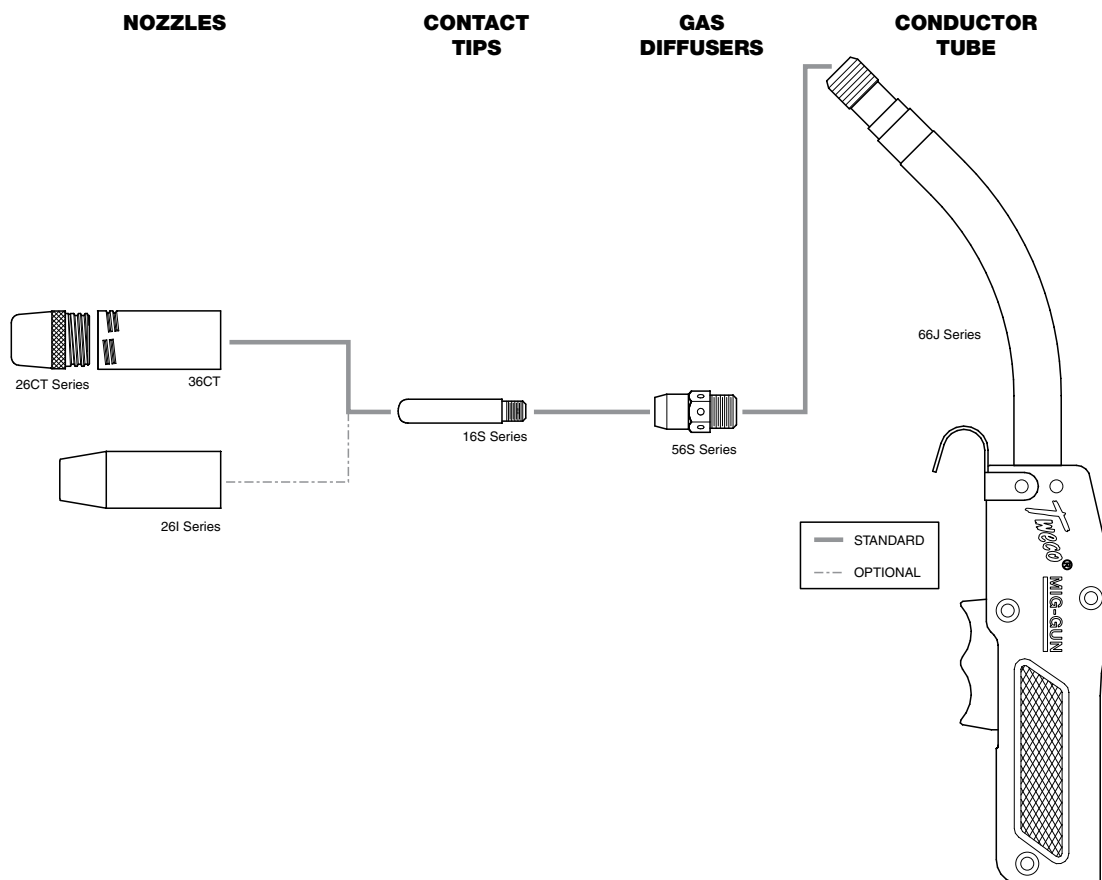
| TWECO® STYLE REAR CONNECTOR* |             |                |           |
|------------------------------|-------------|----------------|-----------|
| Wire Size                    | Length      | Part No.       | Stock No. |
| 3/32"<br>(2.4 mm)            | 15 ft (5 m) | <b>615-332</b> | 1060-1217 |

| MILLER® STYLE REAR CONNECTOR |             |                 |           |
|------------------------------|-------------|-----------------|-----------|
| Wire Size                    | Length      | Part No.        | Stock No. |
| 3/32"<br>(2.4 mm)            | 15 ft (5 m) | <b>M615-332</b> | 1060-1242 |

\* Adapter kits are available to fit Tweco rear connections to most wire feeders

**Standard Conductor Tube** – 66J-60 (Stock No. 1660-1826)

**Conduit Liner** – 45 Series



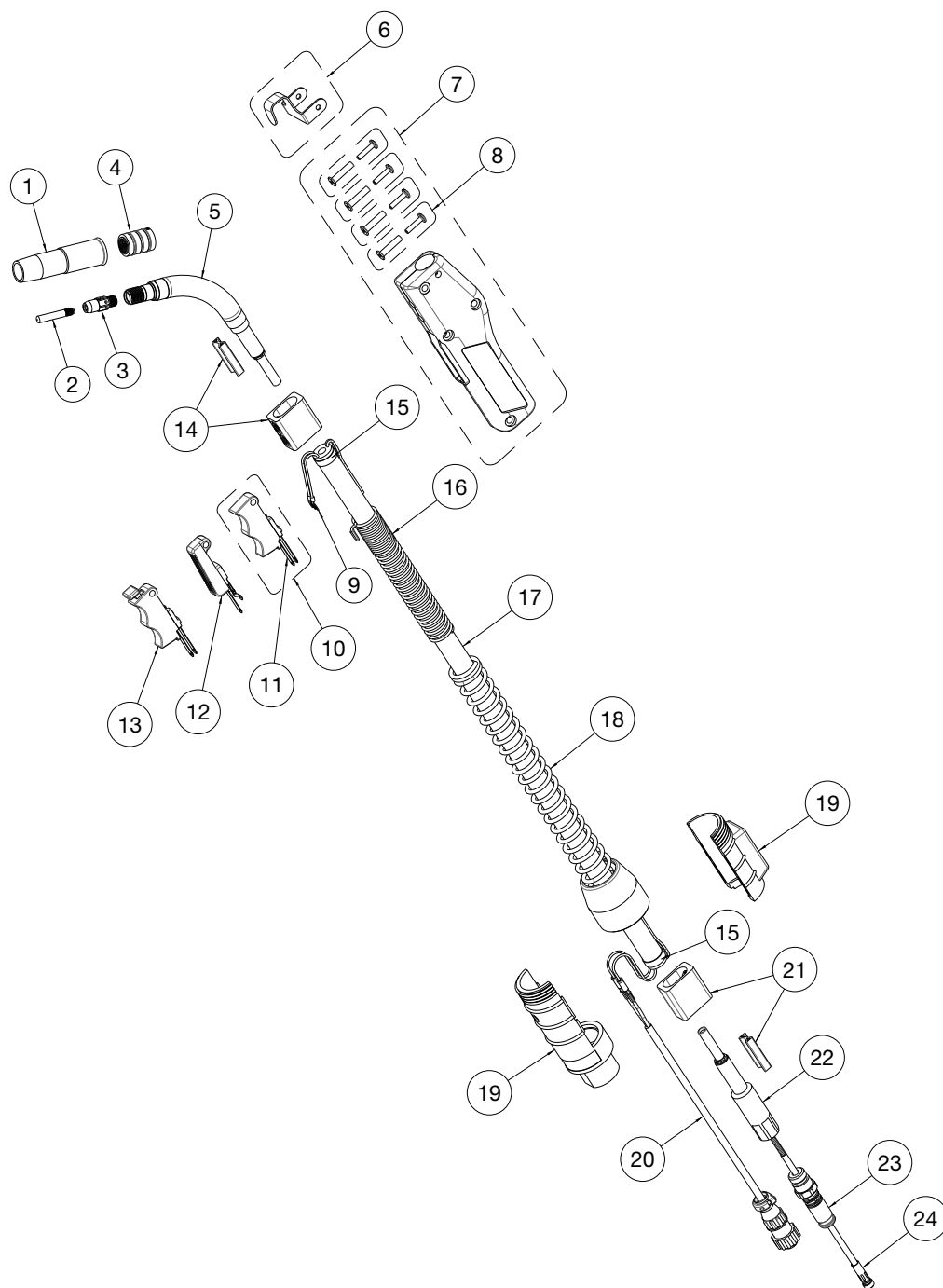
Refer to pages 88-103 for more complete detail on front end options. Refer to pages 26-27 for parts breakdown information.

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# MIG Welding Products & Accessories

## Professional #1, #2, #3, #4, #5 and #6 MIG-Gun Replacement Parts



# MIG Welding Products & Accessories

| PROFESSIONAL #1, #2, #3, #4, #5 AND #6 MIG-GUN REPLACEMENT PARTS |                                                          |                        |                        |                      |                        |                        |                   |
|------------------------------------------------------------------|----------------------------------------------------------|------------------------|------------------------|----------------------|------------------------|------------------------|-------------------|
| #                                                                | DESCRIPTION                                              | #1                     | #2                     | #3                   | #4                     | #5                     | #6                |
| 1                                                                | Nozzles                                                  | Refer to Pages 93-101  |                        |                      |                        |                        |                   |
| 2                                                                | Contact Tips                                             | Refer to Pages 90-92   |                        |                      |                        |                        |                   |
| 3                                                                | Diffusers                                                | Refer to Pages 102-103 |                        |                      |                        |                        |                   |
| 4                                                                | Nozzle Insulators                                        | Refer to Pages 93-101  |                        |                      |                        |                        |                   |
| 5                                                                | Conductor Tubes                                          | Refer to Pages 104-107 |                        |                      |                        |                        |                   |
| 6                                                                | Gun Hanger                                               | 152<br>2020-2152       |                        |                      | 154<br>2040-2154       |                        |                   |
| 7                                                                | Handle Assembly (Standard)                               | 81<br>2010-2081        | 83<br>2030-2083        |                      | 84A<br>2040-2084       | 85<br>2050-2085        |                   |
|                                                                  | Handle Assembly (Dual Schedule)                          | N/A                    |                        |                      | 84DS<br>2040-2085      | N/A                    |                   |
| 8                                                                | Binder Post & Screw (4 Required)                         | 122FM<br>2020-2122     |                        |                      | 124FM<br>2040-2124     |                        |                   |
| 9                                                                | Trigger Control Wire Terminal<br>(Standard - 2 ea.)      | 244DS<br>2040-2245     | 244<br>2040-2224       |                      |                        |                        |                   |
|                                                                  | Trigger Control Wire Terminal<br>(Dual Schedule - 4 ea.) | N/A                    |                        |                      | 244LK<br>2040-2246     | N/A                    |                   |
| 10                                                               | Trigger Assembly (Standard)                              | 91<br>2010-2091        | 92<br>2020-2092        |                      | 94R<br>2040-2096       |                        |                   |
| 11                                                               | Trigger Blades                                           | 91C<br>2010-2093       | 92C<br>2020-2094       |                      | 94C<br>2040-2093       |                        |                   |
| 12                                                               | Trigger Assembly (Dual Schedule)                         | N/A                    |                        |                      | 94LK-DS<br>2040-2099   |                        |                   |
| 13                                                               | Trigger Assembly (Locking)                               | N/A                    |                        |                      | 94L<br>2040-2094       |                        |                   |
| 14                                                               | Front Cable Connector                                    | 101R<br>2010-2103      | 102<br>2020-2102       |                      | 104<br>2040-2104       |                        |                   |
| 15                                                               | Cable Clamp                                              | 136<br>2060-2690       |                        |                      |                        |                        |                   |
| 16                                                               | Front Strain Relief Spring                               | 141-6-SPR<br>2010-2143 | 142-6-SPR<br>2020-2144 |                      | 144-6-SPR<br>2040-2146 | 145-6-SPR<br>2050-2147 |                   |
| 17                                                               | Cablehoz®                                                | 200<br>1720-2100       |                        | 300<br>1730-2100     | 400<br>1740-2100       | 500<br>1750-2100       | 600S<br>1760-2100 |
| 18                                                               | Rear Strain Relief Spring                                | 235RSSR<br>2060-2035   |                        |                      |                        |                        |                   |
| 19                                                               | Rear Case (Direct Plug)                                  | R6RC<br>2060-2040      |                        |                      |                        |                        |                   |
|                                                                  | Rear Case (Euro)                                         | X6RC<br>2060-2006      |                        |                      |                        |                        |                   |
| 20                                                               | Control Wire (Standard)                                  | MS354-DSM<br>2060-2140 |                        |                      |                        |                        |                   |
|                                                                  | Control Wire (Dual Schedule)                             | 194DS<br>2040-2195     |                        |                      |                        |                        |                   |
| 21                                                               | Rear Cable Connector (Direct Plug)                       | 104<br>2040-2104       |                        |                      |                        |                        |                   |
|                                                                  | Rear Cable Connector (Euro)                              | 172X-M<br>2020-2181    |                        | 174X-M<br>2040-2181  |                        | N/A                    |                   |
| 22                                                               | Adapter (Direct Plug)                                    | M170-2H<br>2020-2165   |                        | M170-4H<br>2020-2166 |                        | M170-5H<br>2020-2167   |                   |
| 23                                                               | Connector Plug                                           | Refer to Page 86       |                        |                      |                        |                        |                   |
| 24                                                               | Conduit Assembly                                         | Refer to Pages 108-109 |                        |                      |                        |                        |                   |
| NS                                                               | Protective Cable Wrap, 50 ft (15 m) per box              | TCR50<br>9900-1150     |                        |                      |                        |                        |                   |

N/A = Not Available

# MIG Welding Products & Accessories



*Dennis Cook*  
DAE Fabrication Manager



## MAKING THE SWITCH.

DAE Industries designs, fabricates and installs aircraft engine stands, maintenance stands and structures for aircraft maintenance tooling. The Louisville based company has approximately 40 welding and fabrication stations, and is always looking for ways to increase productivity.

Recently, DAE and its welders compared their MIG guns to the Tweco® Spray Master® MIG gun. "The extended trigger on the handle keeps my hand away from the heat of the arc," commented Jason Burns, a top DAE Welder. "The gun doesn't overheat, so I can remain productive."

They were so impressed by its ability to handle demanding conditions that they converted all their MIG guns to the Tweco Spray Master model. After making the switch, DAE reported seeing instant improvements in productivity.

"The Spray Master MIG gun has proven to be extremely dependable and tough, with zero failures to date. And we've experienced a 60-70% increase in total consumable life, which has created less downtime when changing out parts," says DAE Fabrication Manager, Dennis Cook.

**With the Spray Master MIG guns, DAE saw a decrease in welder fatigue and an increase in consumable parts life. For a company wanting to improve productivity, it seems switching to Tweco was the right choice.**

### DAE INDUSTRIES

Louisville, KY

*Dennis Cook and the welders at DAE Industries carry the torch – will you?*

**THERMADYNE®**, A GLOBAL CUTTING AND WELDING LEADER, joins the American Welding Society in encouraging individuals to practice the art, craftsmanship and professions of welding, metalworking and fabrication. Victor®, Thermal Dynamics®, Thermal Arc®, Arcair®, Tweco®, Stoddy®, CIGWELD® and TurboTorch® are among the Thermadyne family of brands that you can count on for safety, reliability and quality.

**Tweco®**

[www.thermadyne.com](http://www.thermadyne.com)



**American Welding Society**  
Sustaining Company Member



# **MINI-MIG** **160 Amp** **60% Duty Cycle, CO<sub>2</sub>**

| TWECO® STYLE REAR CONNECTOR* |             |          |           |
|------------------------------|-------------|----------|-----------|
| Wire Size                    | Length      | Part No. | Stock No. |
| Up To .035"<br>(0.9 mm)      | 10 ft (3 m) | 35-10    | 1000-1131 |
|                              | 12 ft (4 m) | 35-12    | 1000-1132 |
|                              | 15 ft (5 m) | 35-15    | 1000-1133 |

| LINCOLN® STYLE REAR CONNECTOR† |             |           |           |
|--------------------------------|-------------|-----------|-----------|
| Wire Size                      | Length      | Part No.  | Stock No. |
| Up To .035"<br>(0.9 mm)        | 10 ft (3 m) | L35-10    | 1000-1231 |
|                                | 12 ft (4 m) | L35-12    | 1000-1232 |
|                                | 15 ft (5 m) | L35-15    | 1000-1233 |
|                                | 15 ft (5 m) | L35-15PM‡ | 1000-1236 |

| MILLER® STYLE REAR CONNECTOR |             |          |           |
|------------------------------|-------------|----------|-----------|
| Wire Size                    | Length      | Part No. | Stock No. |
| Up To .035"<br>(0.9 mm)      | 10 ft (3 m) | M35-10   | 1000-1211 |
|                              | 12 ft (4 m) | M35-12   | 1000-1213 |
|                              | 15 ft (5 m) | M35-15   | 1000-1215 |

| EURO-KWIK STYLE REAR CONNECTOR |             |          |           |
|--------------------------------|-------------|----------|-----------|
| Wire Size                      | Length      | Part No. | Stock No. |
| Up To .035"<br>(0.9 mm)        | 12 ft (4 m) | X35-12   | 1000-1632 |
|                                | 15 ft (5 m) | X35-15   | 1000-1633 |

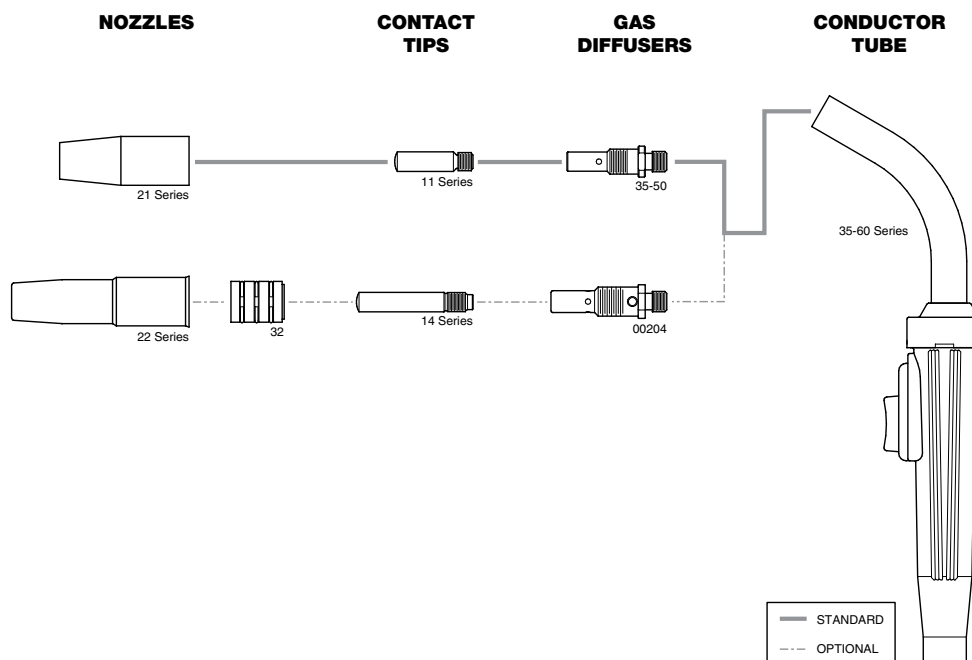
**Standard Conductor Tube** – 35-60-60 (Stock No. 1600-1102)

**Conduit Liner** – 23 & 35 Series

\* Adapter kits are available to fit Tweco rear connection to most wire feeders.

† Fits Lincoln LN7, 8, 9, SP200 - **SOME LINCOLN WIRE FEEDERS ARE ASSEMBLED WITH THEIR K1500-2 GUN RECEIVING BUSHING THAT WILL ACCEPT TWECO STYLE MIG GUNS DIRECT FROM THE FACTORY. CONTROL WIRE PART NO. MS354-DSLJ (STOCK NO. 2060-2137) MUST BE ORDERED SEPARATELY.**

‡ Fits Lincoln Power MIG 140/180 machines.

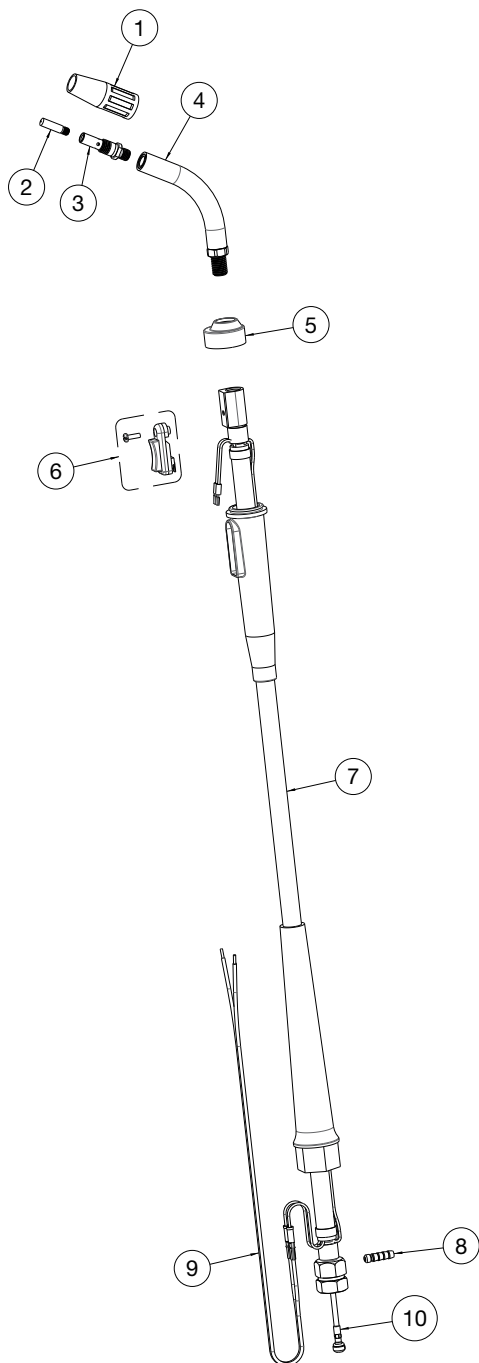


Refer to pages 88-103 for more complete detail on front end options. Refer to pages 30-31 for parts breakdown information.

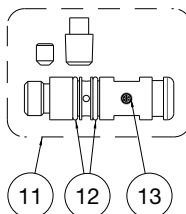
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# MIG Welding Products & Accessories

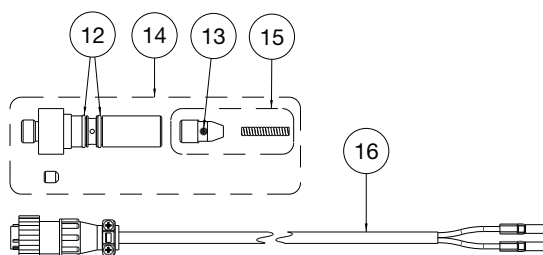
## MINI-MIG Gun Replacement Parts



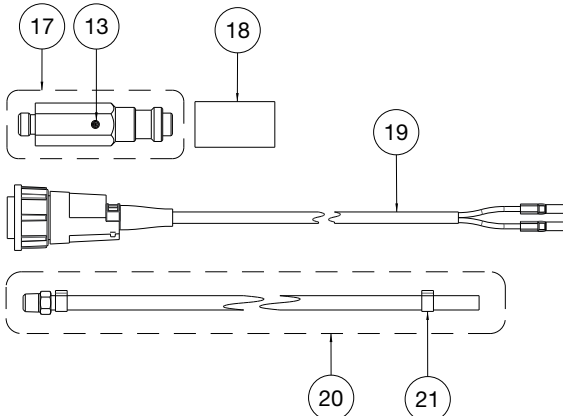
### TWECO®



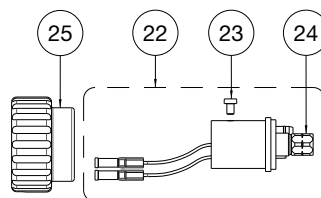
### MILLER®



### LINCOLN®



### EURO



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| MINI-MIG GUN REPLACEMENT PARTS LIST |                                              |                        |
|-------------------------------------|----------------------------------------------|------------------------|
| #                                   | DESCRIPTION                                  | PART NO./STOCK NO.     |
| 1                                   | Nozzles                                      | Refer to Pages 93-101  |
| 2                                   | Contact Tips                                 | Refer to Pages 90-92   |
| 3                                   | Diffusers                                    | Refer to Pages 102-103 |
| 4                                   | Conductor Tubes                              | Refer to Pages 104-107 |
| 5                                   | Handle Cap                                   | 35-80-A1<br>2000-2081  |
| 6                                   | Trigger with Screw                           | 35-90<br>2000-2090     |
| 7                                   | Cablehoz® Assembly 10 ft (3 m) (Direct Plug) | 35-010A<br>1700-2126   |
|                                     | Cablehoz Assembly 12 ft (4 m) (Direct Plug)  | 35-012A<br>1700-2127   |
|                                     | Cablehoz Assembly 15 ft (5 m) (Direct Plug)  | 35-015A<br>1700-2128   |
| 8                                   | Gas Nipple                                   | 35-170-5<br>2000-2175  |
| 9                                   | Control Wire                                 | 35K350-1<br>2000-2352  |
| 10                                  | Conduit                                      | Refer to Pages 108-109 |
| 11                                  | Tweco® Connector Plug                        | 35K-174C<br>2000-2169  |
| 12                                  | O-Ring (Package of 10)                       | 224S<br>2064-2059      |
| 13                                  | Set Screw (Package of 10)                    | 44CS<br>2040-2046      |
| 14                                  | Miller® Connector Plug                       | 170M<br>2000-2810      |
| 15                                  | Wire Guide Assembly Only                     | 174M-N<br>2040-2184    |
| 16                                  | Miller Control Wire                          | WM-354M<br>2030-2075   |
| 17                                  | Lincoln® SP200 Connector Plug                | TLAK-352<br>2641-2030  |
| 18                                  | Lincoln Insulator                            | LAK-352-1<br>2642-2210 |
| 19                                  | Lincoln Control Wire                         | 35SP-354<br>2000-2354  |
| 20                                  | Gas Hose Assembly with Clamp                 | AK353<br>2642-2300     |
| 21                                  | Gas Hose Clamp Only                          | AK-353-2A<br>2642-2302 |
| 22                                  | Euro-Kwik Body Assembly                      | 174EX-1<br>2040-2276   |
| 23                                  | Screw Only                                   | 4-MS<br>2011-2004      |
| 24                                  | Euro-Kwik Conduit Cap Only                   | 174EX-1C<br>2040-2279  |
| 25                                  | Euro-Kwik Nut                                | 174X-2<br>2040-2177    |
| NS                                  | Protective Cable Wrap, 50 ft (15 m) per box  | TCR50<br>9900-1150     |

For additional information on adapter kits for other manufacturers' machines, refer to Form No. TAKL-97.

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## PULSEMASTER™ MIG GUN SERIES

### FEATURES & BENEFITS

#### One-touch, on-the-fly controls

- “smart” capability with one-touch digital control to adjust primary parameters such as welding current, material thickness, wire feed speed or arc length trim
- standard MIG gun without “smart” capability

#### Exceptional weld bead

- using twin-pulse mode, get the perfect weld bead that you want

#### Operator appeal and reduces operator fatigue

- ergonomic handle to reduce operator fatigue
- tool free conductor tube change & rotation
- low bench weight for easy to handle gun

#### Durable for industrial applications

- heavy duty design for industrial application environments
- impact resistant handle and trigger design
- increased current capacity Cablehoz®

#### Lower heat in the handle and conductor tube

- heavy duty Cablehoz and conductor tube for improved electrical conductivity and lower heat in the front end
- heavy duty contact tip and diffuser to act as “heat sink”
- increased interface between contact tip & gas diffuser improves electrical conductivity

#### Improved performance with longer life consumables

- heavy duty contact tips in high heat applications
- gun drilled contact tips for exceptionally smooth surface for improved feedability, consistency and longer tip life



Tweco Standard  
PulseMaster  
MIG Gun

Tweco® PulseMaster  
Smart MIG® Gun  
with digital display - use  
with Thermal Arc® SP  
machines only

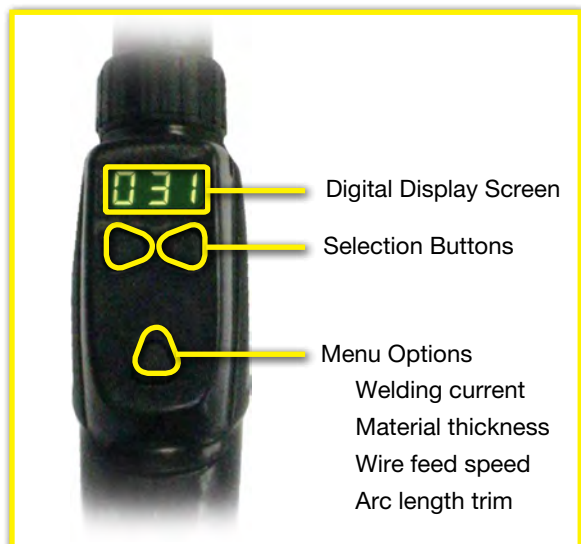
| MODEL           | OUTPUT         |                        |                       | PROCESS |          | STANDARD OPTIONS |                                     |                | APPLICATION    |                 |                |
|-----------------|----------------|------------------------|-----------------------|---------|----------|------------------|-------------------------------------|----------------|----------------|-----------------|----------------|
|                 | Current (Amps) | Duty Cycle Mixed Gases | Wire Diameter in (mm) | MIG     | Aluminum | Smart Capability | Standard Without “Smart” Capability | Rear Connector | Light Duty Fab | Medium Duty Fab | Heavy Duty Fab |
| PulseMaster 350 | 350            | 60%                    | Up to 1/16" (1.6 mm)  | ●       | ●        | ●                | ●                                   | ●              | ●              |                 |                |
| PulseMaster 450 | 450            | 60%                    | Up to 1/16" (1.6 mm)  | ●       | ●        | ●                | ●                                   | ●              |                |                 | ●              |

## PULSEMASTER™ MIG GUN HANDLE DESIGN & STYLE

### PERFORMANCE

### DURABILITY

### EASE OF USE





Tweco PulseMaster  
Smart MIG® Gun  
with digital display

Tweco Standard  
PulseMaster  
MIG Gun

## PulseMaster™ Air-Cooled Standard Gun - 350 Amp 60% Duty Cycle, Mixed Gases

### TWECO® STYLE REAR CONNECTOR

| Wire Size               | Length      | Part No.    | Stock No. |
|-------------------------|-------------|-------------|-----------|
| Up To .045"<br>(1.2 mm) | 12 ft (4 m) | PMA312-3545 | 1038-1150 |
|                         | 15 ft (5 m) | PMA315-3545 | 1038-1155 |

### MILLER® STYLE REAR CONNECTOR

| Wire Size               | Length      | Part No.     | Stock No. |
|-------------------------|-------------|--------------|-----------|
| Up To .045"<br>(1.2 mm) | 12 ft (4 m) | PMA312M-3545 | 1038-1160 |
|                         | 15 ft (5 m) | PMA315M-3545 | 1038-1161 |

### LINCOLN® STYLE REAR CONNECTOR

| Wire Size               | Length      | Part No.     | Stock No. |
|-------------------------|-------------|--------------|-----------|
| Up To .045"<br>(1.2 mm) | 12 ft (4 m) | PMA312L-3545 | 1038-1162 |
|                         | 15 ft (5 m) | PMA315L-3545 | 1038-1163 |

### EURO-KWIK STYLE REAR CONNECTOR

| Wire Size               | Length      | Part No.     | Stock No. |
|-------------------------|-------------|--------------|-----------|
| Up To .045"<br>(1.2 mm) | 12 ft (4 m) | PMA312X-3545 | 1038-1151 |
|                         | 15 ft (5 m) | PMA315X-3545 | 1038-1156 |

## Standard Gun - 450 Amp 60% Duty Cycle, Mixed Gases

### TWECO STYLE REAR CONNECTOR

| Wire Size               | Length      | Part No.    | Stock No. |
|-------------------------|-------------|-------------|-----------|
| Up To .045"<br>(1.2 mm) | 12 ft (4 m) | PMA412-3545 | 1041-1500 |
|                         | 15 ft (5 m) | PMA415-3545 | 1041-1501 |

### MILLER STYLE REAR CONNECTOR

| Wire Size               | Length      | Part No.     | Stock No. |
|-------------------------|-------------|--------------|-----------|
| Up To .045"<br>(1.2 mm) | 12 ft (4 m) | PMA412M-3545 | 1041-1502 |
|                         | 15 ft (5 m) | PMA415M-3545 | 1041-1503 |

### LINCOLN STYLE REAR CONNECTOR

| Wire Size               | Length      | Part No.     | Stock No. |
|-------------------------|-------------|--------------|-----------|
| Up To .045"<br>(1.2 mm) | 12 ft (4 m) | PMA412L-3545 | 1041-1507 |
|                         | 15 ft (5 m) | PMA415L-3545 | 1041-1508 |

### EURO-KWIK STYLE REAR CONNECTOR

| Wire Size               | Length      | Part No.     | Stock No. |
|-------------------------|-------------|--------------|-----------|
| Up To .045"<br>(1.2 mm) | 12 ft (4 m) | PMA412X-3545 | 1041-1505 |
|                         | 15 ft (5 m) | PMA415X-3545 | 1041-1506 |

## Smart Gun - 350 Amp 60% Duty Cycle, Mixed Gases

### TWECO STYLE REAR CONNECTOR

| Wire Size               | Length      | Part No.     | Stock No. |
|-------------------------|-------------|--------------|-----------|
| Up To .045"<br>(1.2 mm) | 12 ft (4 m) | PMAS312-3545 | 1038-1152 |
|                         | 15 ft (5 m) | PMAS315-3545 | 1038-1157 |

### EURO-KWIK STYLE REAR CONNECTOR

| Wire Size               | Length      | Part No.      | Stock No. |
|-------------------------|-------------|---------------|-----------|
| Up To .045"<br>(1.2 mm) | 12 ft (4 m) | PMAS312X-3545 | 1038-1153 |
|                         | 15 ft (5 m) | PMAS315X-3545 | 1038-1158 |

## Smart Gun - 450 Amp 60% Duty Cycle, Mixed Gases

### TWECO STYLE REAR CONNECTOR

| Wire Size               | Length      | Part No.     | Stock No. |
|-------------------------|-------------|--------------|-----------|
| Up To .045"<br>(1.2 mm) | 12 ft (4 m) | PMAS412-3545 | 1041-1510 |
|                         | 15 ft (5 m) | PMAS415-3545 | 1041-1511 |

### EURO-KWIK STYLE REAR CONNECTOR

| Wire Size               | Length      | Part No.      | Stock No. |
|-------------------------|-------------|---------------|-----------|
| Up To .045"<br>(1.2 mm) | 12 ft (4 m) | PMAS412X-3545 | 1041-1515 |
|                         | 15 ft (5 m) | PMAS415X-3545 | 1041-1516 |

Note: PulseMaster Smart MIG Guns are used only with the Thermal Arc® SP machines.

Standard Conductor Tube – PMA64EL-45 (Stock No. 1642-1130)  
Conduit Liner – 44 Series



# MIG Welding Products & Accessories



## TEAMWORK

Analani (Ana) Smith started with Tweco® in Wichita, Kansas in 1996, building welding helmets and goggles. She continued her career through assembly and machining departments over the next 8 years and then moved to Texas with the company. She got some training and work in robotics assembly and was later moved to the welding lab a few years ago. Her experience with components and assembly lead to a desire to learn more and more about welding.

**"I AM PROUD TO BE A PART OF THERMADYNE. AMONG OTHER THINGS, WE MANUFACTURE AND SELL SOME OF MOST POPULAR MIG GUNS IN THE WORLD. THE BRAND TWECO STANDS FOR QUALITY AND RELIABILITY. TWECO IS THE WORLD'S LARGEST SUPPLIER OF WELDING AND CUTTING PRODUCTS INCLUDING AN EXTENSIVE ARRAY FROM BASIC MANUAL WELDING TOOLS AND ACCESSORIES TO MIG GUNS, CONSUMABLES AND A COMPLETE SELECTION OF PRODUCTS FOR PRECISION ROBOTIC WELDING."**

Ana Smith has no time to get bored on the job. Every day is different. As a part of the team of laboratory technicians at the Thermadyne welding lab in Denton, Texas, every day offers a new challenge.

"Ana is a hard worker and a great addition to our team," reports Principal Laboratory Technician, Galen Johnson.

ANA SMITH  
Laboratory Technician  
Denton, Texas

**THERMADYNE®**, A GLOBAL CUTTING AND WELDING LEADER joins the American Welding Society in encouraging individuals to practice the art, craftsmanship and professions of welding, metalworking and fabrication. Victor®, Thermal Dynamics®, Thermal Arc®, Arcair®, Tweco®, Stoddy®, CIGWELD® and TurboTorch® are among the family of brands that you can count on for safety, reliability and quality.

**Tweco®**



TWECO PROFESSIONAL NUMBER 4 MIG GUN  
AND TWECO SPRAY MASTER® MIG GUN.

[www.thermadyne.com](http://www.thermadyne.com)

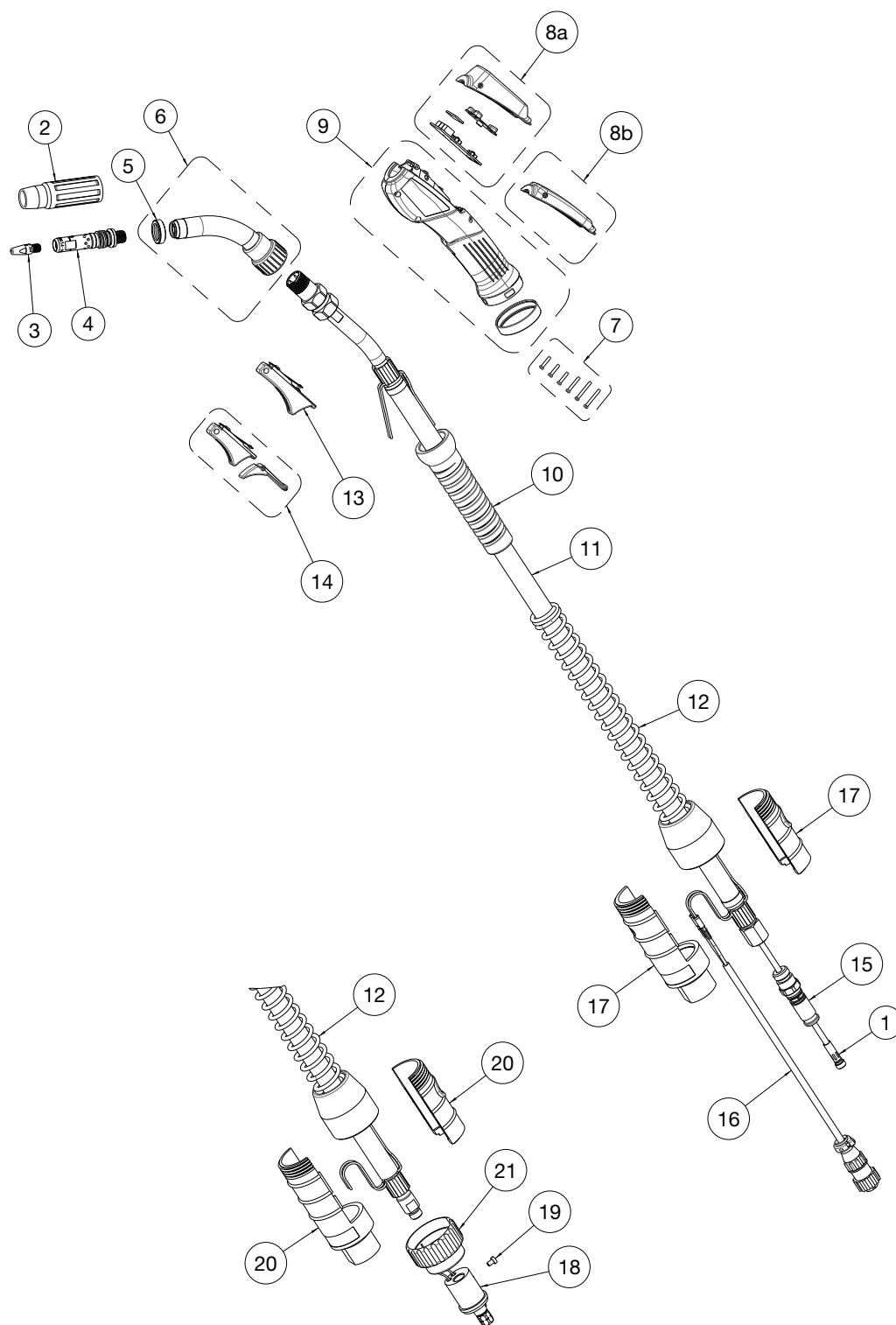


**American Welding Society**  
Sustaining Company Member



# MIG Welding Products & Accessories

## PulseMaster™ Air-Cooled Replacement Parts



| <b>PULSEMASTER™ AIR-COOLED MIG GUN REPLACEMENT PARTS LIST</b> |                                                          |                                 |
|---------------------------------------------------------------|----------------------------------------------------------|---------------------------------|
| #                                                             | DESCRIPTION                                              | PART NO./STOCK NO.              |
| 1                                                             | Conduits                                                 | Refer to Pages 108-109          |
| 2                                                             | Nozzles                                                  | Refer to Pages 93-101           |
| 3                                                             | Contact Tip                                              | Refer to Pages 90-92            |
| 4                                                             | Gas Diffuser used w/ 16PS Series Contact Tips            | <b>PMA54-16S</b><br>1543-1106   |
| 5                                                             | Nozzle Insulator                                         | <b>66J-3</b><br>1660-1836       |
| 6                                                             | Conductor Tubes                                          | Refer to Pages 104-107          |
| 7                                                             | Handle Screws w/ T9 Star Head (12 mm, 16 mm, & 20 mm LG) | <b>PMHSK</b><br>2060-2705       |
| 8a                                                            | Handle Housing w/ Smart Control Assembly                 | <b>PM84-PCB-HK</b><br>2060-2706 |
| 8b                                                            | Handle Housing (Blank)                                   | <b>PM84-H</b><br>2060-2707      |
| 9                                                             | Large Handle Assembly w/ Retaining Ring                  | <b>PM84</b><br>2060-2708        |
|                                                               | Small Handle Assembly w/ Retaining Ring                  | <b>PM83</b><br>2060-2715        |
| 10                                                            | Front Cable Support                                      | <b>PMA-SPS</b><br>2060-2709     |
| 11                                                            | 350A 12 ft (4 m) Cablehoz® Assembly                      | <b>PM400-12</b><br>2060-2703    |
|                                                               | 350A 15 ft (5 m) Cablehoz Assembly                       | <b>PM400-15</b><br>2060-2704    |
|                                                               | 350A 12 ft (4 m) Cablehoz Assembly (Euro)                | <b>PM400X-12</b><br>2060-2718   |
|                                                               | 350A 15 ft (5 m) Cablehoz Assembly (Euro)                | <b>PM400X-15</b><br>2060-2719   |
|                                                               | 450A 12 ft (4 m) Cablehoz Assembly                       | <b>PM500-12</b><br>2060-2710    |
|                                                               | 450A 15 ft (5 m) Cablehoz Assembly                       | <b>PM500-15</b><br>2060-2711    |
|                                                               | 450A 12 ft (4 m) Cablehoz Assembly (Euro)                | <b>PM500X-12</b><br>2060-2716   |
|                                                               | 450A 15 ft (5 m) Cablehoz Assembly (Euro)                | <b>PM500X-15</b><br>2060-2717   |
| 12                                                            | Rear Cable Support                                       | <b>235RSSR</b><br>2060-2035     |
| 13                                                            | Trigger                                                  | <b>PM94</b><br>2060-2712        |
| 14                                                            | Trigger & Guard Assembly                                 | <b>PM94X</b><br>2060-2713       |
| 15                                                            | Connector Plug                                           | Refer to Page 86                |
| 16                                                            | Control Wire Plug                                        | <b>MS354-DSM</b><br>2060-2140   |
| 17                                                            | Rear Case                                                | <b>PM6RC</b><br>2060-2714       |
| 18                                                            | Euro-Kwik Rear Connector                                 | <b>174EX-1</b><br>2040-2276     |
| 19                                                            | Screw (Euro Rear Connector)                              | <b>4M-S</b><br>2011-2004        |
| 20                                                            | Rear Case and Strain Relief (Euro)                       | <b>X6RC</b><br>2060-2006        |
| 21                                                            | Connector Nut (Euro)                                     | <b>174X-2</b><br>2040-2177      |
| NS                                                            | Protective Cable Wrap, 50 ft (15 m) per box              | <b>TCR50</b><br>9900-1150       |

# MIG Welding Products & Accessories

## COMPACT ELIMINATOR® MIG GUN SERIES

### FEATURES & BENEFITS

#### Operator appeal

- ergonomic handle to reduce operator fatigue
- extended trigger length to reduce radiated heat to welder's gloved hand

#### Field repairable

- split-half handle case provides access for ease of repair
- field repairable mechanical cable connections available
- spare trigger leads in Cablehoz®

#### Improved performance patented contact tip

- no threads
- cam style interface between contact tip & gas diffuser for increased surface contact

#### Ball & socket conductor tube design

- articulating conductor tube
- three layer conductor tube construction (copper tube/ silicon resin fiberglass insulator/metal jacket)

#### Wide welding applications

- spray transfer & pulse welding modes
- straight CO<sub>2</sub> or mixed gases



| MODEL                      | OUTPUT         |                            |                       | PROCESS |          |                         |                          | STANDARD OPTIONS |                 |                |                                     | APPLICATION    |                 |                |
|----------------------------|----------------|----------------------------|-----------------------|---------|----------|-------------------------|--------------------------|------------------|-----------------|----------------|-------------------------------------|----------------|-----------------|----------------|
|                            | Current (Amps) | Duty Cycle CO <sub>2</sub> | Wire Diameter in (mm) | MIG     | Aluminum | Flux-Cored Gas Shielded | Flux-Cored Self Shielded | Dual Schedule    | Locking Trigger | Rear Connector | Knucklehead Flexible Conductor Tube | Light Duty Fab | Medium Duty Fab | Heavy Duty Fab |
| Compact Eliminator 250 Amp | 250            | 60%                        | Up to .045" (1.2 mm)  | ●       | ●        | ●                       | ●                        |                  |                 | ●              | ●                                   | ●              |                 |                |
| Compact Eliminator 450 Amp | 450            | 60%                        | Up to 1/16" (1.6 mm)  | ●       | ●        | ●                       | ●                        | ●                |                 | ●              | ●                                   |                |                 | ●              |



## Compact Eliminator® 250 Amp 60% Duty Cycle, CO<sub>2</sub>

### TWECO® STYLE REAR CONNECTOR\*

| Wire Size               | Length      | Part No.    | Stock No. |
|-------------------------|-------------|-------------|-----------|
| Up To .045"<br>(1.2 mm) | 12 ft (4 m) | ELC212-4045 | 1028-1108 |
|                         | 15 ft (5 m) | ELC215-4045 | 1028-1112 |

### MILLER® STYLE REAR CONNECTOR

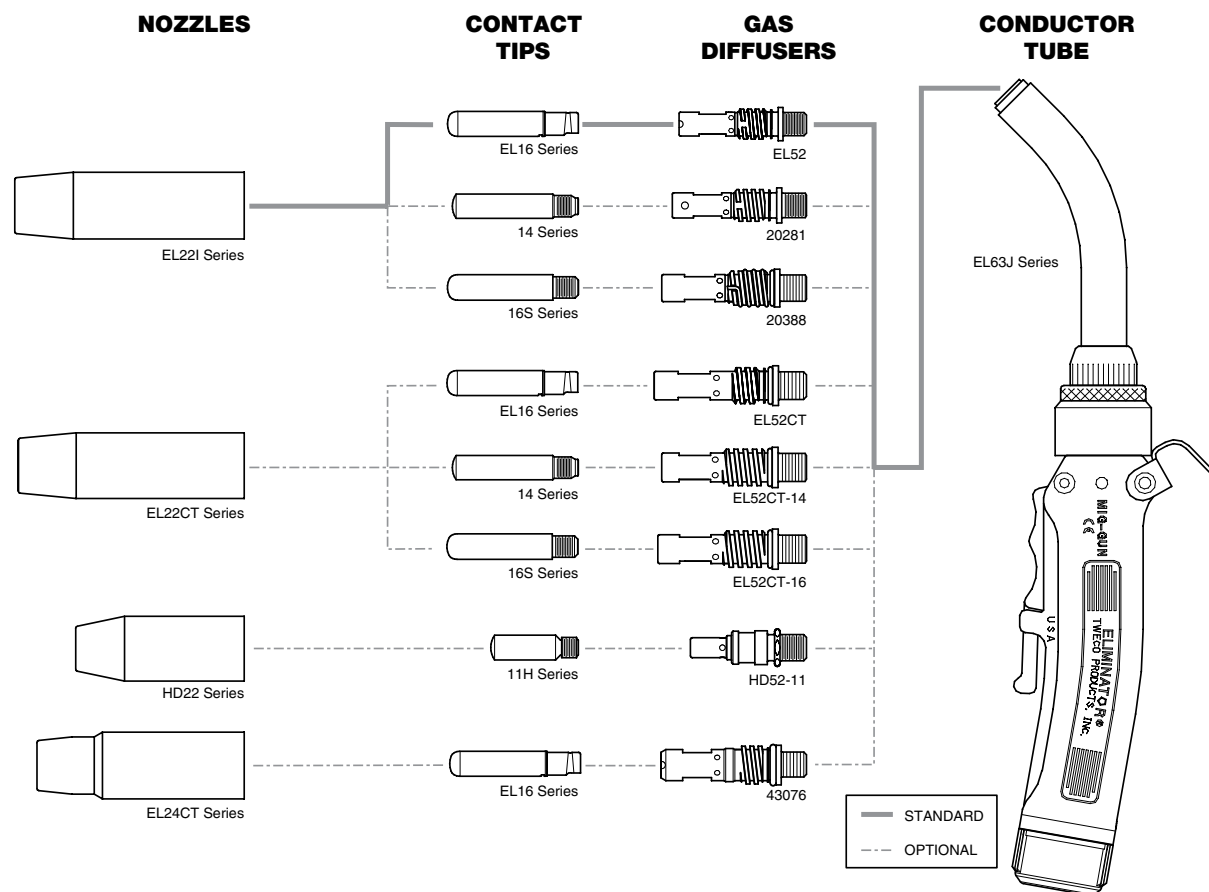
| Wire Size               | Length      | Part No.     | Stock No. |
|-------------------------|-------------|--------------|-----------|
| Up To .045"<br>(1.2 mm) | 12 ft (4 m) | ELC212M-4045 | 1028-1158 |
|                         | 15 ft (5 m) | ELC215M-4045 | 1028-1162 |
|                         | 25 ft (8 m) | ELC225M-4045 | 1028-1170 |

Standard Conductor Tube – EL63J-45 (Stock No. 1630-1136)

Conduit Liner – 44 Series

\* Adapter kits are available to fit Tweco rear connection to most wire feeders.

**SOME LINCOLN FEEDERS ARE ASSEMBLED WITH THEIR K1500-2 GUN RECEIVING BUSHING THAT WILL ACCEPT TWECO STYLE MIG GUNS DIRECT FROM THE FACTORY. CONTROL WIRE PART NO. MS354-DSLJ (STOCK NO. 2060-2137) MUST BE ORDERED SEPARATELY.**



Refer to pages 88-103 for more complete detail on front end options. Refer to pages 44-45 for parts breakdown information.

Miller is a registered trademark of Illinois Tool Works, Inc. The aforementioned registered trademarks are in no way affiliated with Tweco Products, Inc. Tweco is registered trademark of Thermadyne Industries, Inc.

| Wire Size               | Length      | Part No.           | Stock No. |
|-------------------------|-------------|--------------------|-----------|
| Up To .045"<br>(1.2 mm) | 15 ft (5 m) | <b>ELC415-3545</b> | 1048-1210 |
| Up To 1/16"<br>(1.6 mm) | 15 ft (5 m) | <b>ELC415-116</b>  | 1048-1211 |
|                         | 25 ft (8 m) | <b>ELC425-116</b>  | 1048-1221 |

| Wire Size               | Length      | Part No.            | Stock No  |
|-------------------------|-------------|---------------------|-----------|
| Up To .045"<br>(1.2 mm) | 10 ft (3 m) | <b>ELC410M-3545</b> | 1048-1250 |
|                         | 12 ft (4 m) | <b>ELC412M-3545</b> | 1048-1255 |
|                         | 15 ft (5 m) | <b>ELC415M-3545</b> | 1048-1260 |
| Up To 1/16"<br>(1.6 mm) | 25 ft (8 m) | <b>ELC425M-116</b>  | 1048-1271 |

### Conduit Liner – 44 Series

**NOZZLES**

- EL24I Series
- EL24CT Series
- REL24CT Series
- EL26CT Series

**CONTACT TIPS**

- EL16 Series
- EL16 Series
- EL16 Series
- 14 Series
- 16S Series
- EL16 Series
- 14 Series
- EL16 Series

**GAS DIFFUSERS**

- EL54SW
- EL54CT-SW
- EL54CT-H
- 41863
- QTR56-SW
- QTR56-H
- 41863
- EL56-SW

**CONDUCTOR TUBE**

- EL64J Series

— STANDARD  
- - - OPTIONAL

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# MIG Welding Products & Accessories



## “ANYTHING. ANYTIME. ANYWHERE.”

Galen Johnson has been welding since 1966. He served in Vietnam and has his own portable welding rig. His career has included work on pipelines, railroads and odd jobs.

**“I’VE DONE WELDING FOR EVERYTHING FROM PIPELINES TO TRICYCLES. I’VE EVEN REBUILT VEHICLES. WHEN I RAN MY OWN SMALL BUSINESS I CALLED IT TRIPLE A WELDING – ANYTHING, ANYTIME, ANYWHERE.”**

Galen applies that can-do spirit in everything he does. More than a dozen years ago he was persuaded to join Tweco to contribute to research and development activities. “I joined Tweco® to work in R&D in 1996. I’m still here. They won’t let me out,” He says with a smile. Today, Galen is an integral part of product initiatives, customer service and technical support for Thermadyne. He runs the Lab in Denton, Texas.

“Galen is always on the go. His variety of welding experience is invaluable, as we manufacture and sell products for a wide range of welding processes and all applications. Galen brings his vast experience and expertise to evaluate our products. Galen is always on the go”, reports a co-worker from the Thermadyne® global product line management team, adding. “We’re lucky to have him around.”

### GALEN JOHNSON

Principal Laboratory Technician  
Denton, Texas

**THERMADYNE**, A GLOBAL CUTTING AND WELDING LEADER joins the American Welding Society in encouraging individuals to practice the art, craftsmanship and professions of welding, metalworking and fabrication. Victor®, Thermal Dynamics®, Thermal Arc®, Arcair®, Tweco®, Stood® and TurboTorch® are among the family of brands that you can count on for safety, reliability and quality.



TWECO PULSEMASTER™ AND PULLMASTER™ MIG GUNS OFFER DIGITAL DISPLAY AND TIG-LIKE WELD QUALITY ON ALUMINUM AND STAINLESS STEEL.

[www.thermadyne.com](http://www.thermadyne.com)



# MIG Welding Products & Accessories

## STANDARD ELIMINATOR® MIG GUN SERIES

### FEATURES & BENEFITS

#### Operator appeal

- ergonomic handle to reduce operator fatigue
- extended trigger length to reduce radiated heat to welder's gloved hand

#### Field repairable

- split-half handle case provides access for ease of repair
- field repairable mechanical cable connections
- spare trigger leads in Cablehoz®

#### Improved performance patented contact tip

- no threads
- cam style interface between contact tip & gas diffuser for increased surface contact

#### Ball & socket conductor tube design

- articulating conductor tube
- three layer conductor tube construction (copper tube/silicon resin fiberglass insulator/metal jacket)

#### Wide welding applications

- spray transfer & pulse welding modes
- straight CO<sub>2</sub> or mixed gases



| MODEL                       | OUTPUT         |                            |                       | PROCESS |          |                         |                          | STANDARD OPTIONS |                 |                |                                     | APPLICATION    |                 |                |
|-----------------------------|----------------|----------------------------|-----------------------|---------|----------|-------------------------|--------------------------|------------------|-----------------|----------------|-------------------------------------|----------------|-----------------|----------------|
|                             | Current (Amps) | Duty Cycle CO <sub>2</sub> | Wire Diameter in (mm) | MIG     | Aluminum | Flux-Cored Gas Shielded | Flux-Cored Self Shielded | Dual Schedule    | Locking Trigger | Rear Connector | Knucklehead Flexible Conductor Tube | Light Duty Fab | Medium Duty Fab | Heavy Duty Fab |
| Standard Eliminator 450 Amp | 450            | 60%                        | Up to 1/16" (1.6 mm)  | ●       | ●        | ●                       | ●                        | ●                |                 | ●              | ●                                   |                |                 | ●              |

# Standard Eliminator®

**450 Amp**

**60% Duty Cycle, CO<sub>2</sub>**



## TWECO® STYLE REAR CONNECTOR\*

| Wire Size            | Length      | Part No.   | Stock No. |
|----------------------|-------------|------------|-----------|
| Up To .045" (1.2 mm) | 15 ft (5 m) | EL415-3545 | 1048-1112 |

## MILLER® STYLE REAR CONNECTOR

| Wire Size            | Length      | Part No.    | Stock No. |
|----------------------|-------------|-------------|-----------|
| Up To .045" (1.2 mm) | 15 ft (5 m) | EL415M-3545 | 1048-1162 |
| Up To 1/16" (1.6 mm) | 15 ft (5 m) | EL415M-116  | 1048-1163 |

## LINCOLN® STYLE REAR CONNECTOR†

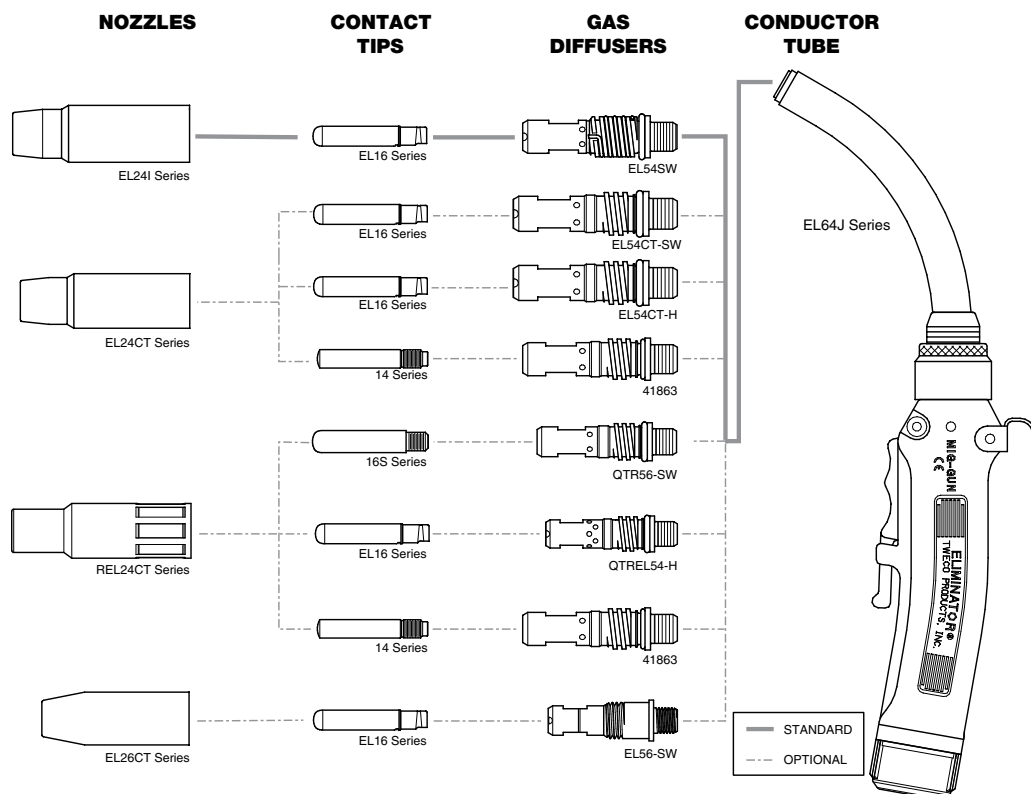
| Wire Size            | Length      | Part No.    | Stock No. |
|----------------------|-------------|-------------|-----------|
| Up To .045" (1.2 mm) | 15 ft (5 m) | EL415L-3545 | 1048-1190 |
| Up To 1/16" (1.6 mm) | 15 ft (5 m) | EL415L-116  | 1048-1191 |

Standard Conductor Tube – EL64J-60 (Stock No. 1640-1137)

Conduit Liner – 44 Series

\* Adapter kits are available to fit Tweco rear connection to most wire feeders.

† Fits Lincoln LN7, 8, 9, SP200 - **SOME LINCOLN WIRE FEEDERS ARE ASSEMBLED WITH THEIR K1500-2 GUN RECEIVING BUSHING THAT WILL ACCEPT TWECO STYLE MIG GUNS DIRECT FROM THE FACTORY. CONTROL WIRE PART NO. MS354-DSLJ (STOCK NO. 2060-2137) MUST BE ORDERED SEPARATELY.**

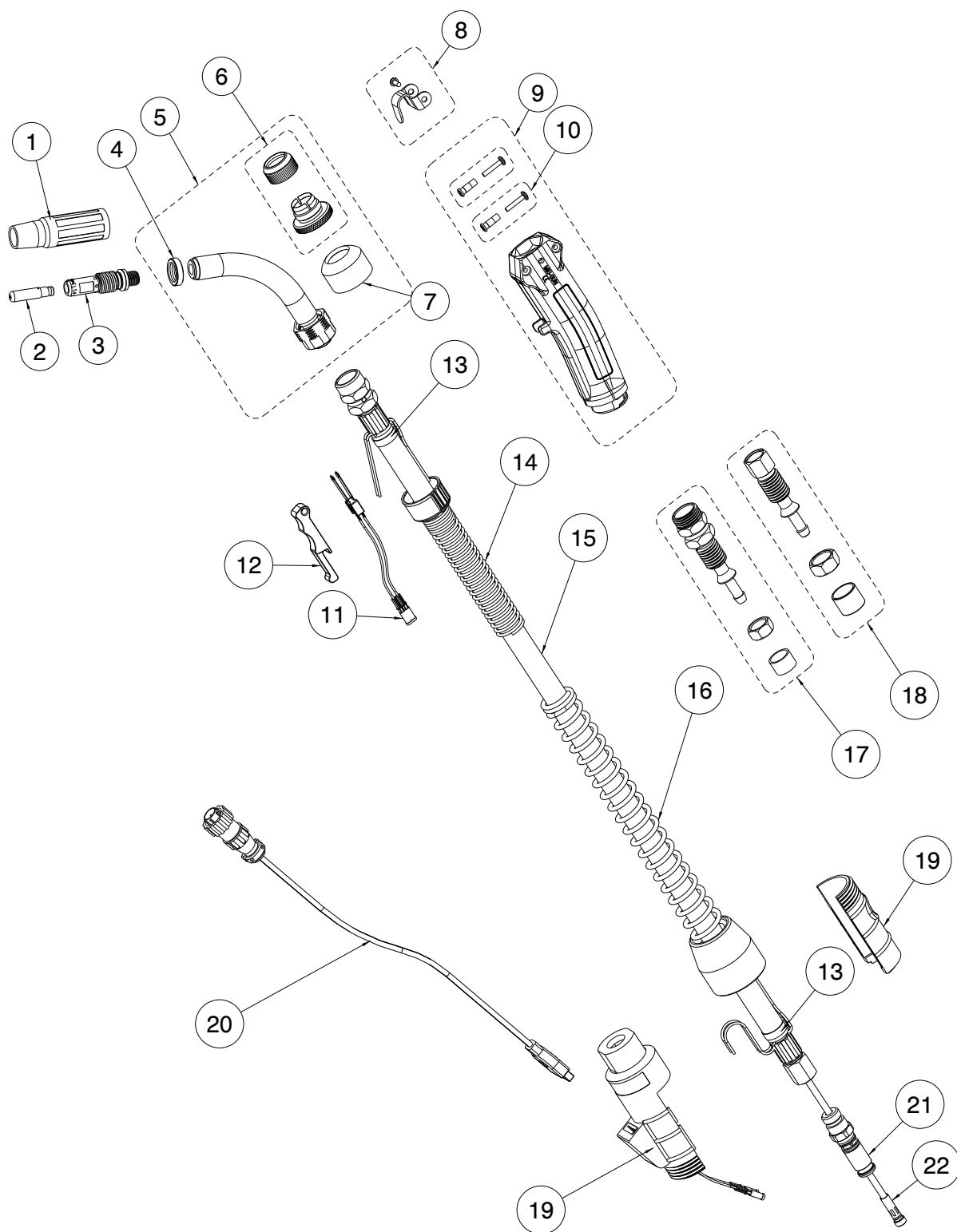


Refer to pages 88-103 for more complete detail on front end options. Refer to pages 44-45 for parts breakdown information.

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# MIG Welding Products & Accessories

## Eliminator® Replacement Parts



| ELIMINATOR® MIG GUN REPLACEMENT PARTS LIST |                                                  |                         |                         |                        |
|--------------------------------------------|--------------------------------------------------|-------------------------|-------------------------|------------------------|
| #                                          | DESCRIPTION                                      | Compact 250 Amp         | Compact 450 Amp         | Standard 450 Amp       |
| 1                                          | Nozzles                                          | Refer to Pages 93-101   |                         |                        |
| 2                                          | Contact Tips                                     | Refer to Pages 90-92    |                         |                        |
| 3                                          | Diffusers                                        | Refer to Pages 102-103  |                         |                        |
| 4                                          | Nozzle Insulator                                 | 63J-3<br>1630-1121      | 66J-3<br>1660-1836      |                        |
| 5                                          | Conductor Tubes                                  | Refer To Pages 104-107  |                         |                        |
| 6                                          | Nut Cover Ring & Sleeve                          | EL66-CR21<br>2060-2666  |                         |                        |
| 7                                          | Nut Insulator                                    | EL66-CR<br>2060-2667    |                         |                        |
| 8                                          | Gun Hanger                                       | 152<br>2020-2152        |                         |                        |
| 9                                          | Handle (Includes Items #10 & #12)                | ELC84-H<br>2060-2643    |                         | EL86-H<br>2060-2653    |
| 10                                         | Binder Posts & Screws<br>(2 Required)            | ELC124FM<br>2060-2646   |                         | N/A                    |
| 11                                         | Trigger Blade Assembly                           | ELC94-BL<br>2060-2671   |                         | EL96-B<br>2060-2606    |
| 12                                         | Trigger                                          | ELC94<br>2060-2647      |                         | EL96<br>2060-2605      |
| 13                                         | Cable Clamp                                      | 136<br>2060-2690        |                         |                        |
| 14                                         | Front Strain Relief Spring & Cap                 | MS144<br>2060-2131      |                         | EL146<br>2060-2686     |
| 15                                         | Cablehoz® Assembly, 15 ft (5 m)<br>(Direct Plug) | ELC215R<br>1720-2142    | ELC415R<br>1740-2527    | EL415R<br>1740-2537    |
|                                            | Cablehoz Assembly, 15 ft (5 m)<br>(Euro)         | N/A                     | XELC415R<br>1740-2532   | N/A                    |
| 16                                         | Rear Strain Relief Spring                        | 235RSSR<br>2060-2035    |                         |                        |
| 17                                         | Front Cable Connector Repair Kit                 | ELC100-2RK<br>2020-2182 | ELC100-4RK<br>2040-2187 | EL100-4RK<br>2040-2188 |
| 18                                         | Rear Cable Connector Repair Kit<br>(Direct Plug) | EPG172H<br>2020-2191    | 350-170HK<br>2035-2169  |                        |
|                                            | Rear Cable Connector Repair Kit<br>(Euro)        | 172X-M<br>2020-2181     | 174X-M<br>2040-2181     |                        |
| 19                                         | Rear Case (Direct Plug)                          | ELT6RC<br>2060-2019     |                         |                        |
|                                            | Rear Case (Euro)                                 | X6RC<br>2060-2006       |                         |                        |
| 20                                         | Control Wire (Tweco®)                            | MAK-354<br>2642-2460    |                         |                        |
|                                            | Control Wire (Miller®)                           | MSAK-354<br>2642-2470   |                         |                        |
|                                            | Control Wire (Lincoln®)                          | LAK-354<br>2642-2470    |                         |                        |
| 21                                         | Connector Plug                                   | Refer to Page 86        |                         |                        |
| 22                                         | Conduit Assembly                                 | Refer to Pages 108-109  |                         |                        |
| NS                                         | Protective Cable Wrap, 50 ft (15 m) per box      | TCR50<br>9900-1150      |                         |                        |

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# MIG Welding Products & Accessories

## TUFF-N-LITE MIG GUN

### FEATURES & BENEFITS

#### Operator appeal and reduces operator fatigue

- straight handle allows the welder to locate the trigger at the bottom or top of handle
- light-weight for ease of handling

#### Field repairable

- split-half handle case provides access for ease of repair
- field repairable mechanical cable connections for Cablehoz®
- spare trigger leads in Cablehoz

#### Wide welding applications

- spray transfer mode & pulse welding
- straight CO<sub>2</sub> or mixed gases



Trigger Position – Top

| MODEL           | OUTPUT         |                            |                       | PROCESS |          |                         |                          | STANDARD OPTIONS | APPLICATION    |                |
|-----------------|----------------|----------------------------|-----------------------|---------|----------|-------------------------|--------------------------|------------------|----------------|----------------|
|                 | Current (Amps) | Duty Cycle CO <sub>2</sub> | Wire Diameter in (mm) | MIG     | Aluminum | Flux-Cored Gas Shielded | Flux-Cored Self Shielded | Rear Connector   | Light Duty Fab | Heavy Duty Fab |
| TUFF-N-LITE 350 | 350            | 60%                        | Up to 1/16" (1.6 mm)  | ●       | ●        | ●                       | ●                        | ●                | ●              | ●              |



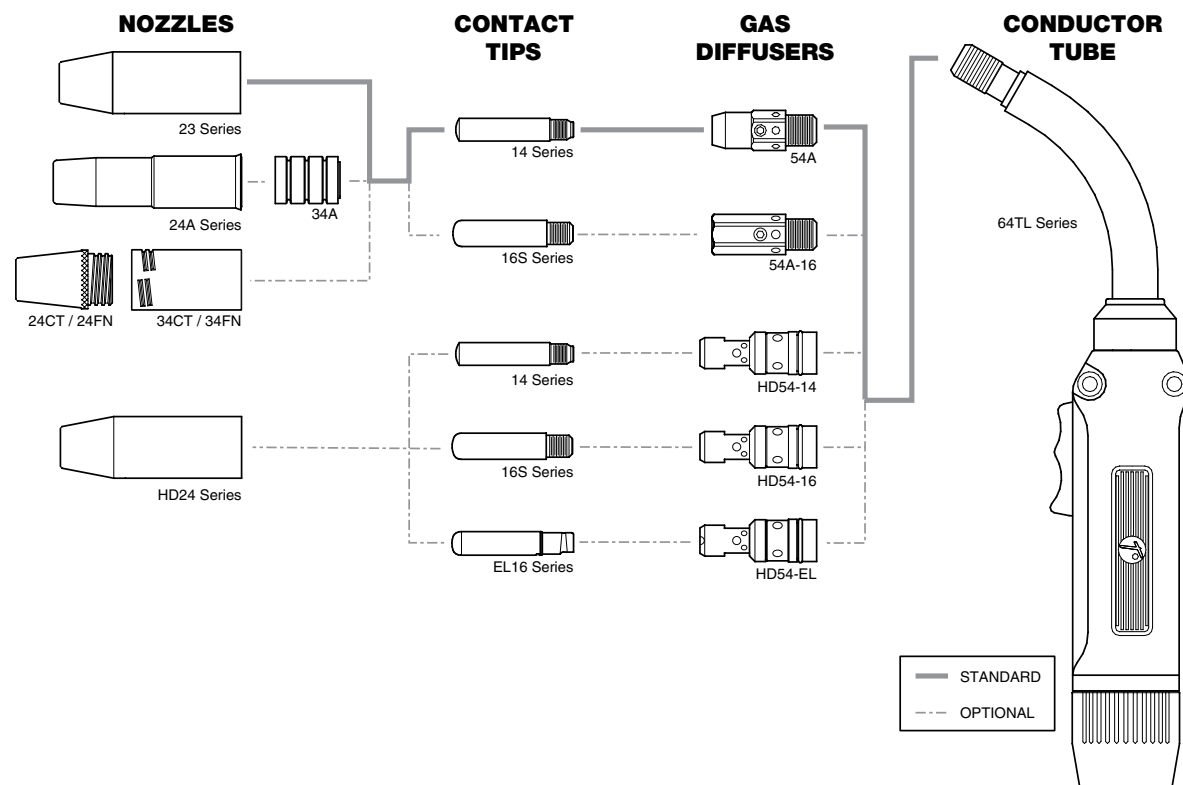
# **TUFF-N-LITE** **350 Amp** **60% Duty Cycle, CO<sub>2</sub>**

| 350 AMP GUN          |              |                                              |                            |
|----------------------|--------------|----------------------------------------------|----------------------------|
| Wire Size            | Cable Length | Rear Connection Style (PART NO. / STOCK NO.) |                            |
|                      |              | Tweco*                                       | Miller®                    |
| Up To 1/16" (1.6 mm) | 15 ft (5 m)  | TL350-15-116<br>1036-1037                    | TL350M-15-116<br>1036-1237 |

\* Adapter kits are available to fit Tweco® rear connection to most wire feeders.

**Standard Conductor Tube** – 64TL-60 (Stock No. 1635-1031)

**Conduit Liner** – 44 Series

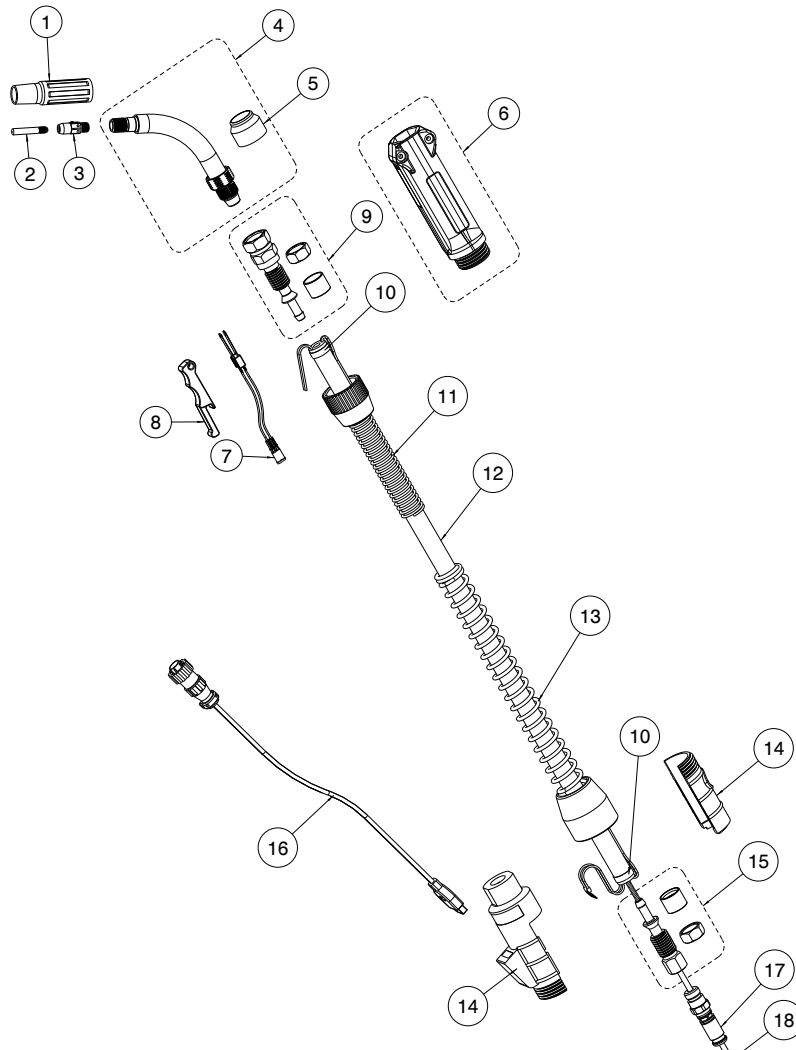


Refer to pages 88-103 for more complete detail on front end options. Refer to page 48 for parts breakdown information.

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# MIG Welding Products & Accessories

## TUFF-N-LITE Replacement Parts



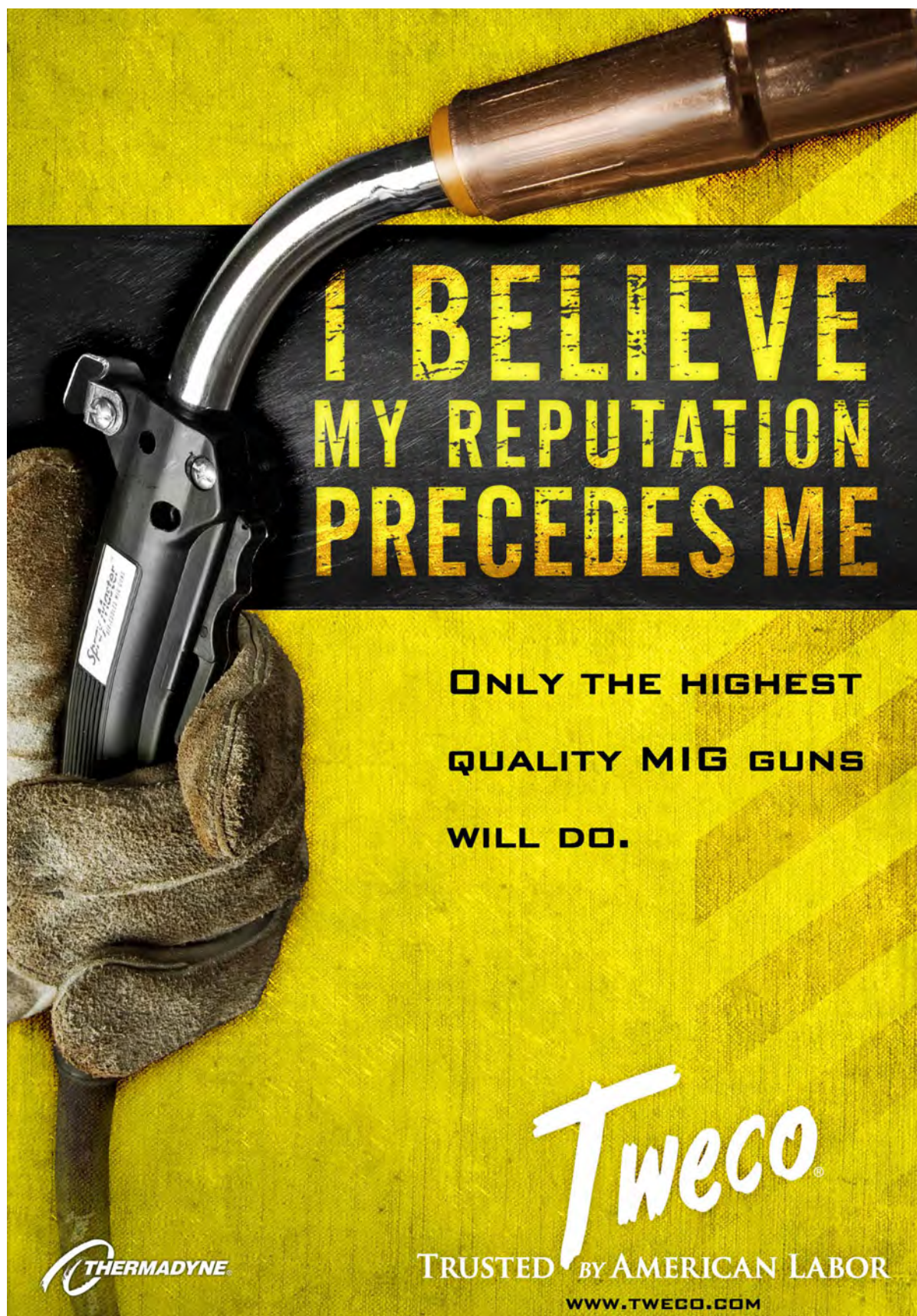
### TUFF-N-LITE REPLACEMENT PARTS LIST

| #  | DESCRIPTION            | PART NO./STOCK NO.            | #  | DESCRIPTION                                    | PART NO./STOCK NO.            |
|----|------------------------|-------------------------------|----|------------------------------------------------|-------------------------------|
| 1  | Nozzles                | Refer to Pages 93-101         | 11 | Front Strain Relief Spring                     | <b>TL144</b><br>2035-2138     |
| 2  | Contact Tips           | Refer to Pages 90-92          | 12 | Cablehoz®                                      | <b>300</b><br>1730-2100       |
| 3  | Diffusers              | Refer to Pages 102-103        | 13 | Rear Strain Relief Spring                      | <b>235RSSR</b><br>2060-2035   |
| 4  | Conductor Tubes        | Refer to Pages 104-107        | 14 | Rear Case                                      | <b>M6RC</b><br>2660-2018      |
| 5  | Nut Insulator          | <b>64TL-NC</b><br>2035-2128   | 15 | Rear Cable Connector                           | <b>350-170HK</b><br>2035-2169 |
| 6  | Handle Assembly        | <b>TL350-86R</b><br>2035-2136 | 16 | Control Wire (Tweco®)                          | <b>MAK-354</b><br>2642-2460   |
| 7  | Trigger Blade Assembly | <b>EL96B</b><br>2060-2606     |    | Control Wire (Miller®)                         | <b>MSAK-354</b><br>2642-2470  |
| 8  | Trigger                | <b>EL96</b><br>2060-2605      | 17 | Connector Plug                                 | Refer to Page 86              |
| 9  | Front Cable Connector  | <b>104TL</b><br>2035-2130     | 18 | Conduit                                        | Refer to Pages 108-109        |
| 10 | Cable Clamp            | <b>136</b><br>2060-2690       | NS | Protective Cable Wrap,<br>50 ft (15 m) per box | <b>TCR50</b><br>9900-1150     |

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# MIG Welding Products & Accessories



**I BELIEVE  
MY REPUTATION  
PRECEDES ME**

**ONLY THE HIGHEST  
QUALITY MIG GUNS  
WILL DO.**

**Tweco®**

TRUSTED BY AMERICAN LABOR

[WWW.TWECO.COM](http://WWW.TWECO.COM)

**THERMADYNE**

# MIG Welding Products & Accessories

## SUPRA® XT MIG GUN SERIES

### FEATURES & BENEFITS

#### Field Repairable

- field repairable mechanical cable connections for Cablehoz®
- three layer conductor tube construction (copper tube/silicon-resin glass insulator/metal jacket)
- spare trigger leads in Cablehoz

#### Durable & dependable

- heavy-duty design
- high impact resistant one-piece “straight” handle
- heavy-duty front end consumables
- conductor tube threads into front block

#### Micro-switch trigger design

- incorporates a button style switch for start/stop wire feed
- Metal “paddle” style trigger lever
- Can be used as top or bottom trigger

#### Front and rear spring strain relief and cable support

- provides needed support to eliminate kinking of Cablehoz
- less downtime

#### Rugged & durable power cable

- proven abrasion & heat resistant Cablehoz

#### Wide welding applications

- spray transfer mode & pulse
- straight CO<sub>2</sub> or mixed gases



| MODEL             | OUTPUT         |                            |                       | PROCESS |          |                         |                          | STANDARD OPTIONS |                                  |                                        |                                     | APPLICATION     |                |
|-------------------|----------------|----------------------------|-----------------------|---------|----------|-------------------------|--------------------------|------------------|----------------------------------|----------------------------------------|-------------------------------------|-----------------|----------------|
|                   | Current (Amps) | Duty Cycle CO <sub>2</sub> | Wire Diameter in (mm) | MIG     | Aluminum | Flux-Cored Gas Shielded | Flux-Cored Self Shielded | Rear Connector   | Heavy-Duty Front End Consumables | Eliminator Style Front End Consumables | Knucklehead Flexible Conductor Tube | Medium Duty Fab | Heavy Duty Fab |
| SUPRA XT SEHD 450 | 450            | 60%                        | Up to 1/16" (1.6 mm)  | ●       | ●        | ●                       | ●                        | ●                | ●                                | ●                                      |                                     | ●               |                |
| SUPRA XT SEL 450  | 450            | 60%                        | Up to 1/16" (1.6 mm)  | ●       | ●        | ●                       | ●                        | ●                | ●                                |                                        | ●                                   | ●               |                |





## SUPRA® XT SEHD Series

### 450 Amp

### 60% Duty Cycle, CO<sub>2</sub>

#### TWECO® STYLE REAR CONNECTOR\*

| Wire Size            | Length      | Part No.      | Stock No. |
|----------------------|-------------|---------------|-----------|
| Up To 1/16" (1.6 mm) | 15 ft (5 m) | SEHD400-5M1,6 | 1040-1332 |

#### LINCOLN® STYLE REAR CONNECTOR†

| Wire Size            | Length       | Part No.       | Stock No. |
|----------------------|--------------|----------------|-----------|
| Up To 1/16" (1.6 mm) | 15 ft. (5 m) | SEHD400L-5M1,6 | 1040-1432 |

#### MILLER® STYLE REAR CONNECTOR

| Wire Size            | Length      | Part No.       | Stock No. |
|----------------------|-------------|----------------|-----------|
| Up To 1/16" (1.6 mm) | 15 ft (5 m) | SEHD400M-5M1,6 | 1040-1342 |

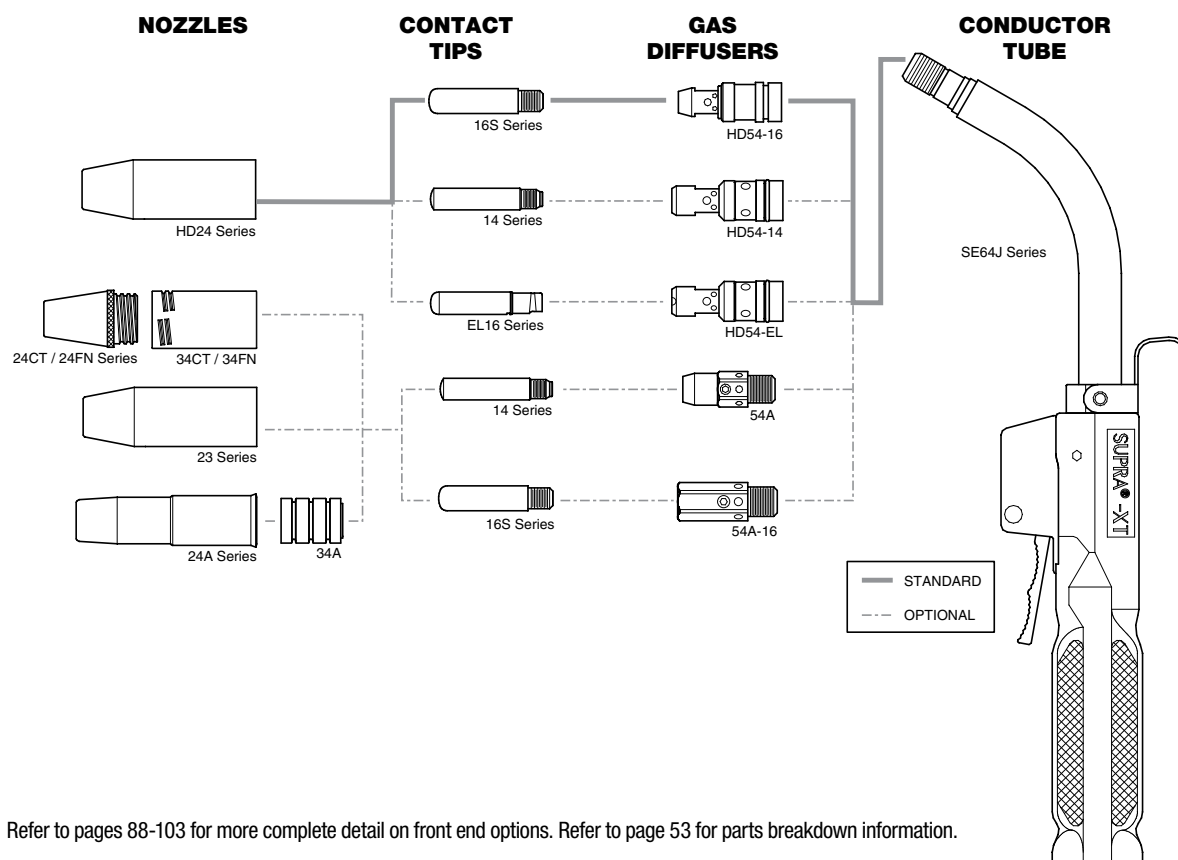
#### Standard Conductor Tube –

SE64J-60 (Stock No. 1640-1347) on all guns up to 15 ft (5 m)

#### Conduit Liner – 44 Series

\* Adapter kits are available to fit Tweco rear connection to most wire feeders.

† Fits Lincoln LN7, 8, 9, SP200 - **SOME LINCOLN WIRE FEEDERS ARE ASSEMBLED WITH THEIR K1500-2 GUN RECEIVING BUSHING THAT WILL ACCEPT TWECO STYLE MIG GUNS DIRECT FROM THE FACTORY. CONTROL WIRE PART NO. MS354-DSLJ (STOCK NO. 2060-2137) MUST BE ORDERED SEPARATELY.**



Refer to pages 88-103 for more complete detail on front end options. Refer to page 53 for parts breakdown information.

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## SUPRA® XT SEL Series

### 450 Amp

### 60% Duty Cycle, CO<sub>2</sub>

#### TWECO® STYLE REAR CONNECTOR\*

| Wire Size               | Length      | Part No.     | Stock No. |
|-------------------------|-------------|--------------|-----------|
| Up To 1/16"<br>(1.6 mm) | 15 ft (5 m) | SEL400-5M1,6 | 1040-1207 |

#### LINCOLN® STYLE REAR CONNECTOR†

| Wire Size               | Length      | Part No.      | Stock No. |
|-------------------------|-------------|---------------|-----------|
| Up To 1/16"<br>(1.6 mm) | 15 ft (5 m) | SEL400L-5M1,6 | 1040-1242 |

#### MILLER® STYLE REAR CONNECTOR

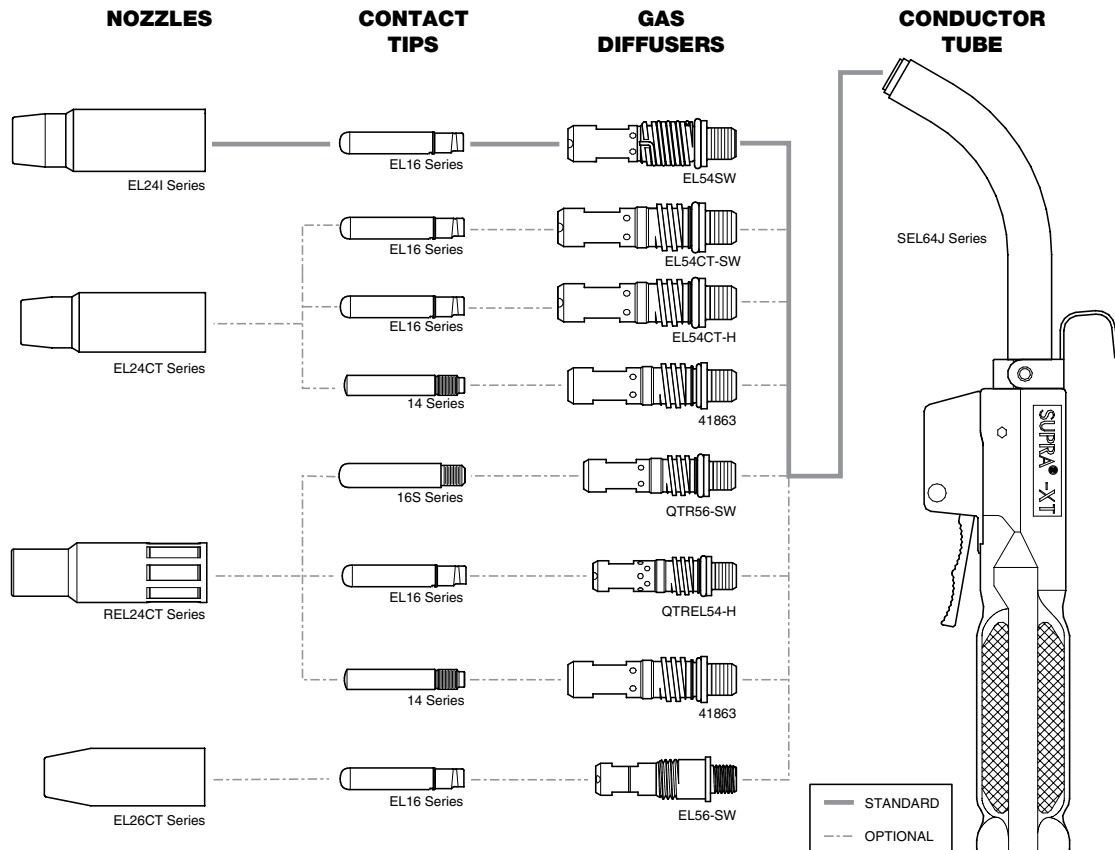
| Wire Size               | Length      | Part No.      | Stock No. |
|-------------------------|-------------|---------------|-----------|
| Up To 1/16"<br>(1.6 mm) | 15 ft (5 m) | SEL400M-5M1,6 | 1040-1217 |

Standard Conductor Tube –  
SEL64J-60 (Stock No. 1640-1322) on all guns up to 15 ft (5 m)

Conduit Liner – 44 Series

\* Adapter kits are available to fit Tweco rear connection to most wire feeders.

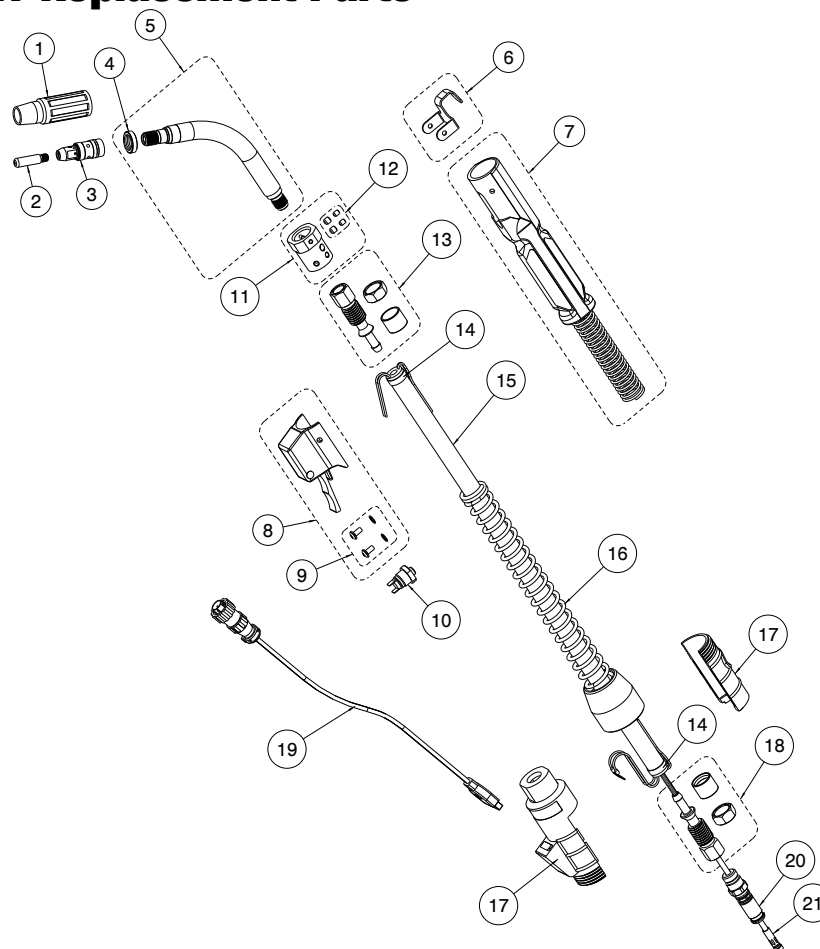
† Fits Lincoln LN7, 8, 9, SP200 - **SOME LINCOLN WIRE FEEDERS ARE ASSEMBLED WITH THEIR K1500-2 GUN RECEIVING BUSHING THAT WILL ACCEPT TWECO STYLE MIG GUNS DIRECT FROM THE FACTORY. CONTROL WIRE PART NO. MS354-DSLJ (STOCK NO. 2060-2137) MUST BE ORDERED SEPARATELY.**



Refer to pages 88-103 for more complete detail on front end options. Refer to page 53 for parts breakdown information.

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## SUPRA® XT Replacement Parts



### SUPRA XT REPLACEMENT PARTS LIST

| #  | DESCRIPTION                | PART NO./STOCK NO.     | #  | DESCRIPTION                                 | PART NO./STOCK NO.     |
|----|----------------------------|------------------------|----|---------------------------------------------|------------------------|
| 1  | Nozzles                    | Refer to Pages 93-101  | 13 | Front Cable Connector                       | SE104<br>2060-2057     |
| 2  | Contact Tips               | Refer to Pages 90-92   | 14 | Cable Clamp                                 | 136<br>2060-2690       |
| 3  | Diffusers                  | Refer to Pages 102-103 | 15 | Cablehox®                                   | 400<br>1740-2100       |
| 4  | Nozzle Insulator           | 66J-3<br>1660-1836     | 16 | Rear Strain Relief Spring                   | 235RSSR<br>2060-2035   |
| 5  | Conductor Tubes            | Refer to Pages 104-107 | 17 | Rear Case                                   | M6RC<br>2660-2018      |
| 6  | Gun Hanger                 | 154<br>2040-2154       | 18 | Rear Cable Connector                        | 350-170HK<br>2035-2169 |
| 7  | Handle Assembly            | SE86-H<br>2060-2052    | 19 | Control Wire (Tweco®)                       | MAK-354<br>2642-2460   |
| 8  | Trigger Assembly           | SE96<br>2060-2056      |    | Control Wire (Miller®)                      | MSAK-354<br>2642-2470  |
| 9  | Trigger Housing Screws     | SE96-SW<br>2060-2055   |    | Control Wire (Lincoln®)                     | LAK-354<br>2642-2450   |
| 10 | Trigger Switch             | SE96-B<br>2060-2054    | 20 | Connector Plug                              | Refer to Page 86       |
| 11 | Front Pivot Block Assembly | SE66<br>2060-2051      | 21 | Conduit                                     | Refer to Pages 108-109 |
| 12 | Pivot Block Set Screw      | SE66-B<br>2060-2050    | NS | Protective Cable Wrap, 50 ft (15 m) per box | TCR50<br>9900-1150     |

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## SMOKE MASTER® FUME EXTRACTION MIG GUN SERIES

### FEATURES & BENEFITS

#### Operator appeal and reduces operator fatigue

- ergonomic handle to reduce operator fatigue
- extended trigger length to reduce radiated heat
- low bench weight for easy to handle gun

#### MIG gun handle incorporates handle slide valve

- allows the operator to regulate vacuum on the MIG gun
- efficiently removes 90% of smoke from the welding zone

#### Field repairable

- replaceable Cablehoz® available
- spare trigger leads in Cablehoz

#### Rugged & durable power cable

- tough outer jacket made from leather protecting inner vacuum hose from weld spatter/abrasion
- proven abrasion & heat resistant Cablehoz
- 1-3/8" inside diameter PVC reinforced vacuum hose
- outer metal plated insulated smoke tube

#### Vacuum cools the front end consumables

- surrounding air is drawn over the front end consumables and conductor tube



Smoke Master MIG gun with Smoke Collection System, Part No. TSC96 (Stock No. 4500-1010)

| MODEL            | OUTPUT         |                            |                       | PROCESS |          |                         | STANDARD OPTIONS | APPLICATION    |                 |                |
|------------------|----------------|----------------------------|-----------------------|---------|----------|-------------------------|------------------|----------------|-----------------|----------------|
|                  | Current (Amps) | Duty Cycle CO <sub>2</sub> | Wire Diameter in (mm) | MIG     | Aluminum | Flux-Cored Gas Shielded | Rear Connector   | Light Duty Fab | Medium Duty Fab | Heavy Duty Fab |
| Smoke Master 250 | 250            | 60%                        | Up to .045" (1.2 mm)  | ●       | ●        | ●                       | ●                | ●              |                 |                |
| Smoke Master 450 | 450            | 60%                        | Up to 1/16" (1.6 mm)  | ●       | ●        | ●                       | ●                |                | ●               |                |



## Smoke Master® 250 Amp 60% Duty Cycle, CO<sub>2</sub>

### TWECO® STYLE REAR CONNECTOR\*

| Wire Size               | Length      | Part No.         | Stock No. |
|-------------------------|-------------|------------------|-----------|
| Up To .045"<br>(1.2 mm) | 12 ft (4 m) | <b>S212-4045</b> | 1026-1101 |
|                         | 15 ft (5 m) | <b>S215-4045</b> | 1026-1102 |

\* Adapter kits are available to fit Tweco rear connection to most wire feeders.

### Standard Conductor Tube –

S62-60 (Stock No. 2020-2006) on all guns up to 15 ft (5 m)

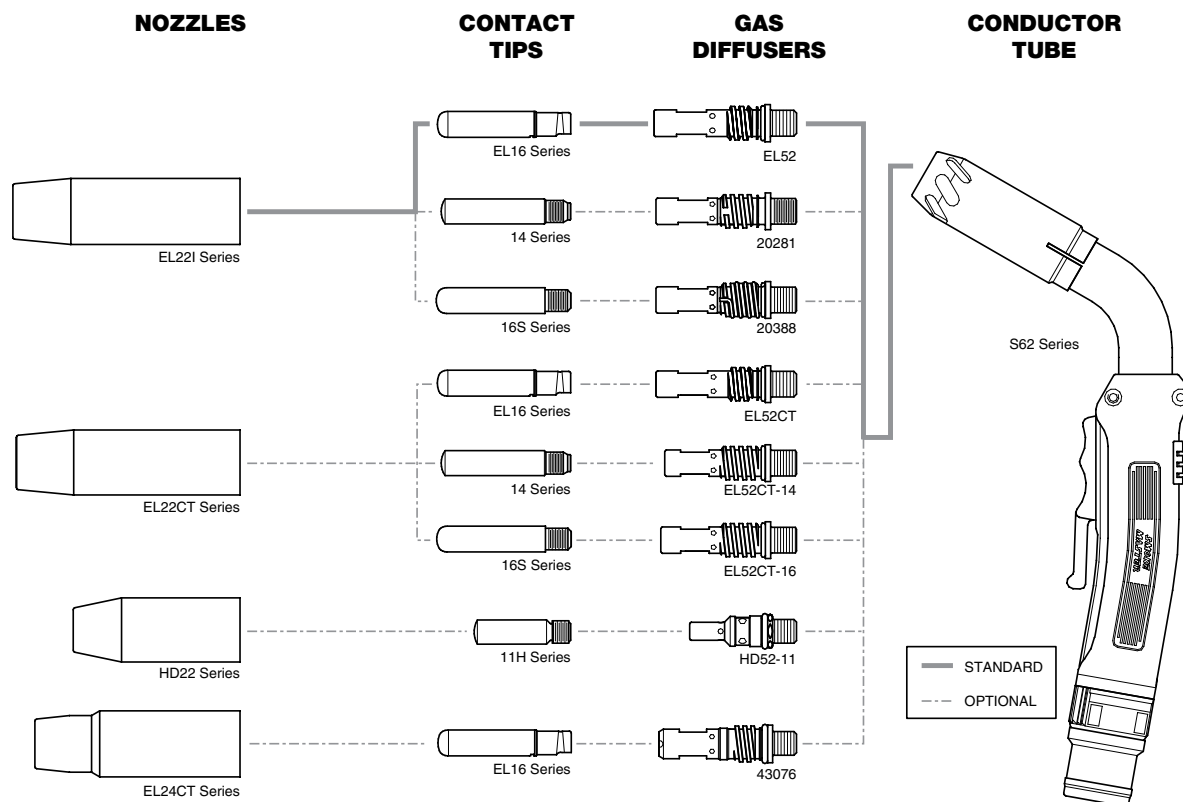
Conduit Liner – 44 Series

### MILLER® STYLE REAR CONNECTOR

| Wire Size               | Length      | Part No.          | Stock No. |
|-------------------------|-------------|-------------------|-----------|
| Up To .045"<br>(1.2 mm) | 12 ft (4 m) | <b>S212M-4045</b> | 1026-1106 |
|                         | 15 ft (5 m) | <b>S215M-4045</b> | 1026-1107 |

### EURO STYLE REAR CONNECTOR

| Wire Size               | Length      | Part No.          | Stock No. |
|-------------------------|-------------|-------------------|-----------|
| Up To .045"<br>(1.2 mm) | 15 ft (5 m) | <b>XS215-4045</b> | 1026-1127 |



Refer to pages 88-103 for more complete detail on front end options. Refer to pages 58-59 for parts breakdown information.

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# Smoke Master® 450 Amp 60% Duty Cycle, CO<sub>2</sub>

## TWECO® STYLE REAR CONNECTOR\*

| Wire Size               | Length      | Part No.        | Stock No. |
|-------------------------|-------------|-----------------|-----------|
| Up To 1/16"<br>(1.6 mm) | 12 ft (4 m) | <b>S412-116</b> | 1046-1105 |
|                         | 15 ft (5 m) | <b>S415-116</b> | 1046-1108 |

## LINCOLN® STYLE REAR CONNECTOR†

| Wire Size               | Length      | Part No.         | Stock No. |
|-------------------------|-------------|------------------|-----------|
| Up To 1/16"<br>(1.6 mm) | 15 ft (5 m) | <b>S415L-116</b> | 1046-1138 |

## MILLER® STYLE REAR CONNECTOR

| Wire Size               | Length      | Part No.         | Stock No. |
|-------------------------|-------------|------------------|-----------|
| Up To 1/16"<br>(1.6 mm) | 12 ft (4 m) | <b>S412M-116</b> | 1046-1125 |
|                         | 15 ft (5 m) | <b>S415M-116</b> | 1046-1128 |

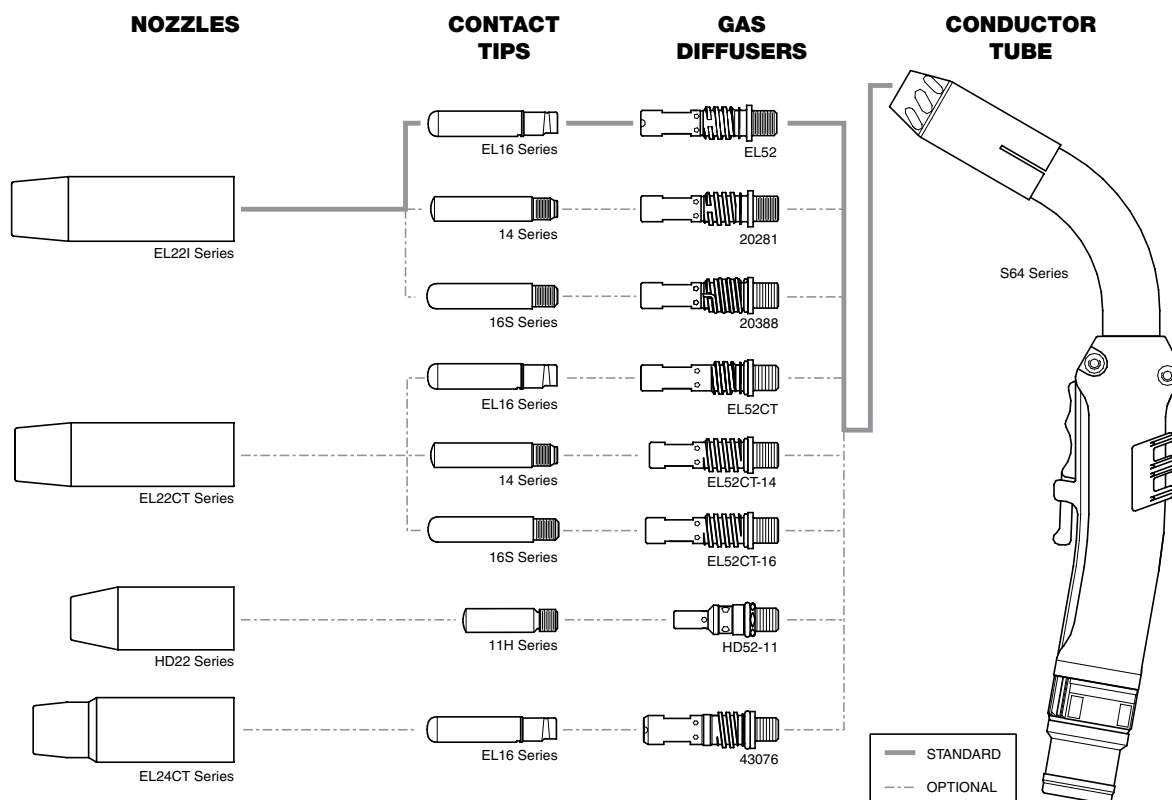
### Standard Conductor Tube –

S64-60 (Stock No. 1046-2258) on all guns up to 15 ft (5 m)

### Conduit Liner – 44 Series

\* Adapter kits are available to fit Tweco rear connection to most wire feeders.

† Fits Lincoln LN7, 8, 9, SP200 - **SOME LINCOLN WIRE FEEDERS ARE ASSEMBLED WITH THEIR K1500-2 GUN RECEIVING BUSHING THAT WILL ACCEPT TWECO STYLE MIG GUNS DIRECT FROM THE FACTORY. CONTROL WIRE PART NO. MS354-DSLJ (STOCK NO. 2060-2137) MUST BE ORDERED SEPARATELY.**



Refer to pages 88-103 for more complete detail on front end options. Refer to pages 58-59 for parts breakdown information.

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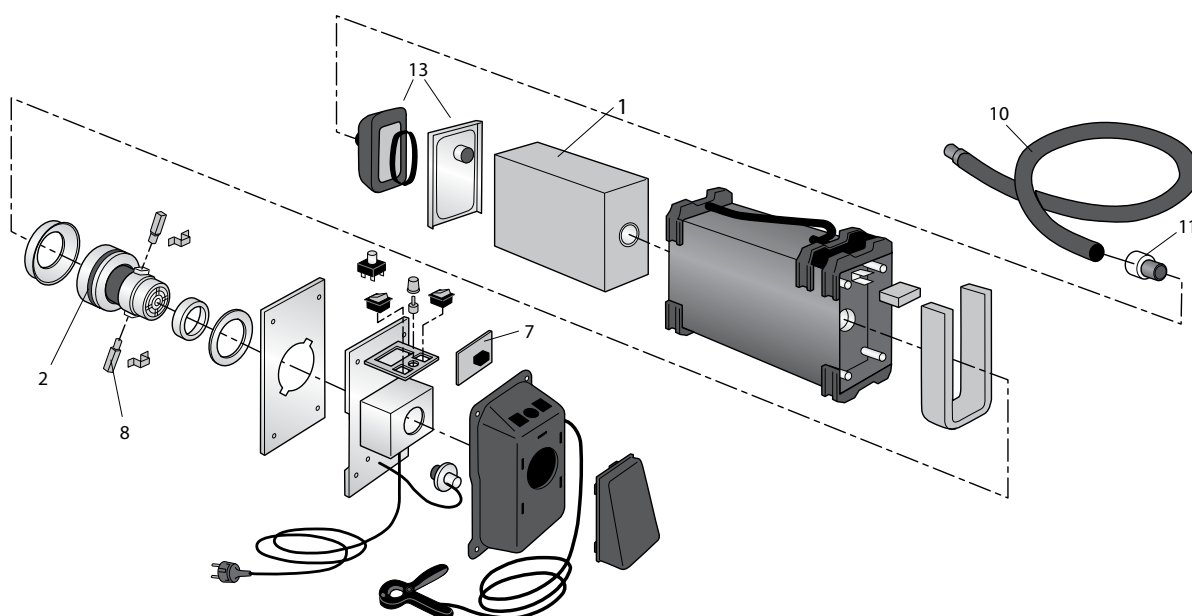


## Tweco® Smoke Collector

### Fume Removal System

- Compatible with Tweco Smoke Master MIG Guns
- Efficiently removes welding fumes
- High efficiency filter
- Separately air-cooled motor
- Automatic start-stop function standard

| Description | (PART NO. / STOCK NO.)     |
|-------------|----------------------------|
| 120V, 60Hz  | <b>TSC-96</b><br>4500-1010 |



### TWECO SMOKE COLLECTOR REPLACEMENT PARTS LIST

| #  | DESCRIPTION                                         | PART NO./STOCK NO.            |
|----|-----------------------------------------------------|-------------------------------|
| 1  | Filter- particle                                    | <b>TSC-F</b><br>4500-2060     |
| 2  | Motor 120V                                          | <b>TSC-M</b><br>4500-2059     |
| 7  | PCB, Sensor Tong & Potentionmeter                   | <b>TSC580480</b><br>4500-2088 |
| 8  | Brushes Carbon - 2 pieces                           | <b>TSC-103</b><br>4500-2078   |
| 10 | Smoke Collector Hose 8 ft (2.44 m)                  | <b>TSC-H</b><br>4500-2061     |
| 11 | Hose Connector - 1.5" to 1.75" (3.81 cm to 4.45 cm) | <b>TSC-15</b><br>4500-2063    |
| 13 | Motor Cover                                         | <b>TSC184100</b><br>4500-2083 |
|    | Course Separator Complete                           | <b>TSC284230</b><br>4500-2098 |

This diagram illustrates the exploded view of a medical device assembly, with components numbered 1 through 21. The assembly includes a main shaft (15) with a handle (14) and a distal tip (21). Key components include:

- 1, 8, 9:** A three-part connector or coupling assembly.
- 2, 3, 4, 5:** A small assembly of a pin, a nut, a washer, and a cap.
- 6, 7:** A curved connector or elbow joint.
- 10, 11:** A control unit or handle assembly with internal components.
- 12, 13:** A cable and a connector plug.
- 16, 17:** A long, thin tube or sheath.
- 18:** A series of connectors or couplings along the shaft.
- 19:** A long, thin cable or wire.
- 20, 21:** The distal tip and its associated connector.

## AIR-COOLED SMOKE MASTER® 250 & 450 AMP MIG GUN REPLACEMENT PARTS LIST

| #  | DESCRIPTION                             | 250 AMP                | 450 AMP               |
|----|-----------------------------------------|------------------------|-----------------------|
| 1  | Nozzles                                 | Refer to Pages 93-101  |                       |
| 2  | Contact Tips                            | Refer to Pages 90-92   |                       |
| 3  | Diffuser (Slip-On)                      | EL52<br>1560-1110      |                       |
|    | Diffuser (Course Thread)                | EL52CT<br>1560-1109    |                       |
| 4  | Insulator Spacer                        | S62-60-2<br>2020-2013  | S64-R<br>1046-2223    |
| 5  | Smoke Tube Spacer                       | S62-60-2<br>2020-2013  | S64-1<br>1046-2273    |
| 6  | Conductor Tube<br>(60 Degree, Standard) | S62-60<br>2020-2006    | S64-60<br>1046-2258   |
|    | Conductor Tube<br>(45 Degree, Standard) | S62-45<br>2020-2011    | N/A                   |
| 7  | Handle Spacer                           | N/A                    | S64-2<br>1046-2271    |
| 8  | Smoke Nozzle (Standard)                 | S22-62L<br>2020-2010   | S24-62<br>1046-2225   |
|    | Smoke Nozzle (High Volume)              | N/A                    | S24-62HV<br>1046-2226 |
| 9  | Smoke Tube (60 Degree, Standard)        | S62T-60<br>2020-2001   | S64T-60<br>1046-2240  |
|    | Smoke Tube (45 Degree)                  | S62T-45<br>2020-2012   | N/A                   |
| 10 | Handle Assembly                         | S82<br>2020-2003       | S86<br>1046-2250      |
| 11 | Handle Valve                            | S82-V<br>2020-2004     | S86-V<br>1046-2252    |
| 12 | Trigger Blade Assembly                  | ELC94-BL<br>2060-2671  |                       |
| 13 | Trigger                                 | ELC94<br>2060-2647     | EL96<br>2060-2605     |
| 14 | Swivel Cap Assembly                     | S82-C<br>2020-2005     | S86-C<br>1046-2254    |
| 15 | Cablehoz® Assembly, 12 ft (4 m)         | S212<br>2020-2008      | S412<br>1046-2203     |
|    | Cablehoz Assembly, 15 ft (5 m)          | S215<br>2020-2009      | S415<br>1046-2206     |
| 16 | Smoke Hose, 12 ft (4 m)                 | S412-H<br>1046-2214    |                       |
|    | Smoke Hose, 15 ft (5 m)                 | S415-H<br>1046-2217    |                       |
| 17 | Leather Jacket, 12 ft (4 m)             | SHP-12<br>1046-2267    |                       |
|    | Leather Jacket, 15 ft (5 m)             | SHP-15<br>1046-2268    |                       |
| 18 | Rear Case Assembly                      | M6RC<br>2660-2018      |                       |
| 19 | Control Wire (Tweco®)                   | MAK-354<br>2642-2460   |                       |
|    | Control Wire (Miller®)                  | MSAK-354<br>2642-2470  |                       |
|    | Control Wire (Lincoln®)                 | LAK-354<br>2642-2450   |                       |
| 20 | Connector Plug                          | Refer to Page 86       |                       |
| 21 | Conduit                                 | Refer to Pages 108-109 |                       |

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## FLUXCORED MIG GUN SERIES

### FEATURES & BENEFITS

#### Field repairable

- spare trigger leads in Cablehoz®

#### Durable & dependable

- heavy-duty design
- high impact resistant one-piece “straight” handle
- heavy-duty front end consumables

#### Micro-switch trigger design

- incorporates a button style switch for start/stop wire feed
- metal “paddle” style trigger lever
- can be used as top or bottom trigger

#### Rugged & durable power cable

- proven abrasion & heat resistant Cablehoz®

#### Wide welding applications

- for use with all gasless wires



SEFC Series – 450A

| MODEL           | OUTPUT         |            |                       | PROCESS                  | STANDARD OPTIONS | APPLICATION     |                |
|-----------------|----------------|------------|-----------------------|--------------------------|------------------|-----------------|----------------|
|                 | Current (Amps) | Duty Cycle | Wire Diameter in (mm) | Flux-Cored Self Shielded | Rear Connector   | Medium Duty Fab | Heavy Duty Fab |
| SEFC Series 350 | 350            | 60%        | Up to 3/32" (2.4 mm)  | ●                        | ●                | ●               |                |
| SEFC Series 450 | 450            | 60%        | Up to 1/8" (3.2 mm)   | ●                        | ●                |                 | ●              |



## FLUXCORED "SEFC" 350 Amp, 60% Duty Cycle



### TWECO® STYLE REAR CONNECTOR\*

| Wire Size               | Length      | Part No.    | Stock No. |
|-------------------------|-------------|-------------|-----------|
| Up To 3/32"<br>(2.4 mm) | 15 ft (5 m) | SEFC350T-15 | 1031-1643 |

### MILLER® STYLE REAR CONNECTOR

| Wire Size               | Length      | Part No.    | Stock No. |
|-------------------------|-------------|-------------|-----------|
| Up To 3/32"<br>(2.4 mm) | 10 ft (3 m) | SEFC350M-10 | 1031-1637 |
|                         | 15 ft (5 m) | SEFC350M-15 | 1031-1638 |

### LINCOLN® STYLE REAR CONNECTOR†

| Wire Size               | Length      | Part No.   | Stock No. |
|-------------------------|-------------|------------|-----------|
| Up To 3/32"<br>(2.4 mm) | 10 ft (3 m) | SEFC350-10 | 1031-1632 |
|                         | 15 ft (5 m) | SEFC350-15 | 1031-1633 |

#### Standard Conductor Tube –

64FC-60 (Stock No. 1641-1127) on all guns up to 15 ft (5 m)

## FLUXCORED "SEFC" 450 Amp, 60% Duty Cycle

### TWECO STYLE REAR CONNECTOR\*

| Wire Size              | Length      | Part No.    | Stock No. |
|------------------------|-------------|-------------|-----------|
| Up To 1/8"<br>(3.2 mm) | 15 ft (5 m) | SEFC450T-15 | 1041-1120 |

#### Standard Conductor Tube –

66FC-60 (Stock No. 1661-1127) on all guns up to 15 ft (5 m)

### MILLER STYLE REAR CONNECTOR

| Wire Size              | Length      | Part No.    | Stock No. |
|------------------------|-------------|-------------|-----------|
| Up To 1/8"<br>(3.2 mm) | 15 ft (5 m) | SEFC450M-15 | 1041-1139 |

### LINCOLN STYLE REAR CONNECTOR†

| Wire Size              | Length      | Part No.   | Stock No. |
|------------------------|-------------|------------|-----------|
| Up To 1/8"<br>(3.2 mm) | 15 ft (5 m) | SEFC450-15 | 1041-1113 |

\* Adapter kits are available to fit Tweco rear connection to most wire feeders.

† Fits Lincoln LN7, 8, 9, SP200 - **SOME LINCOLN WIRE FEEDERS ARE ASSEMBLED WITH THEIR K1500-2 GUN RECEIVING BUSHING THAT WILL ACCEPT TWECO STYLE MIG GUNS DIRECT FROM THE FACTORY. CONTROL WIRE PART NO. MS354-DSLJ (STOCK NO. 2060-2137) MUST BE ORDERED SEPARATELY.**

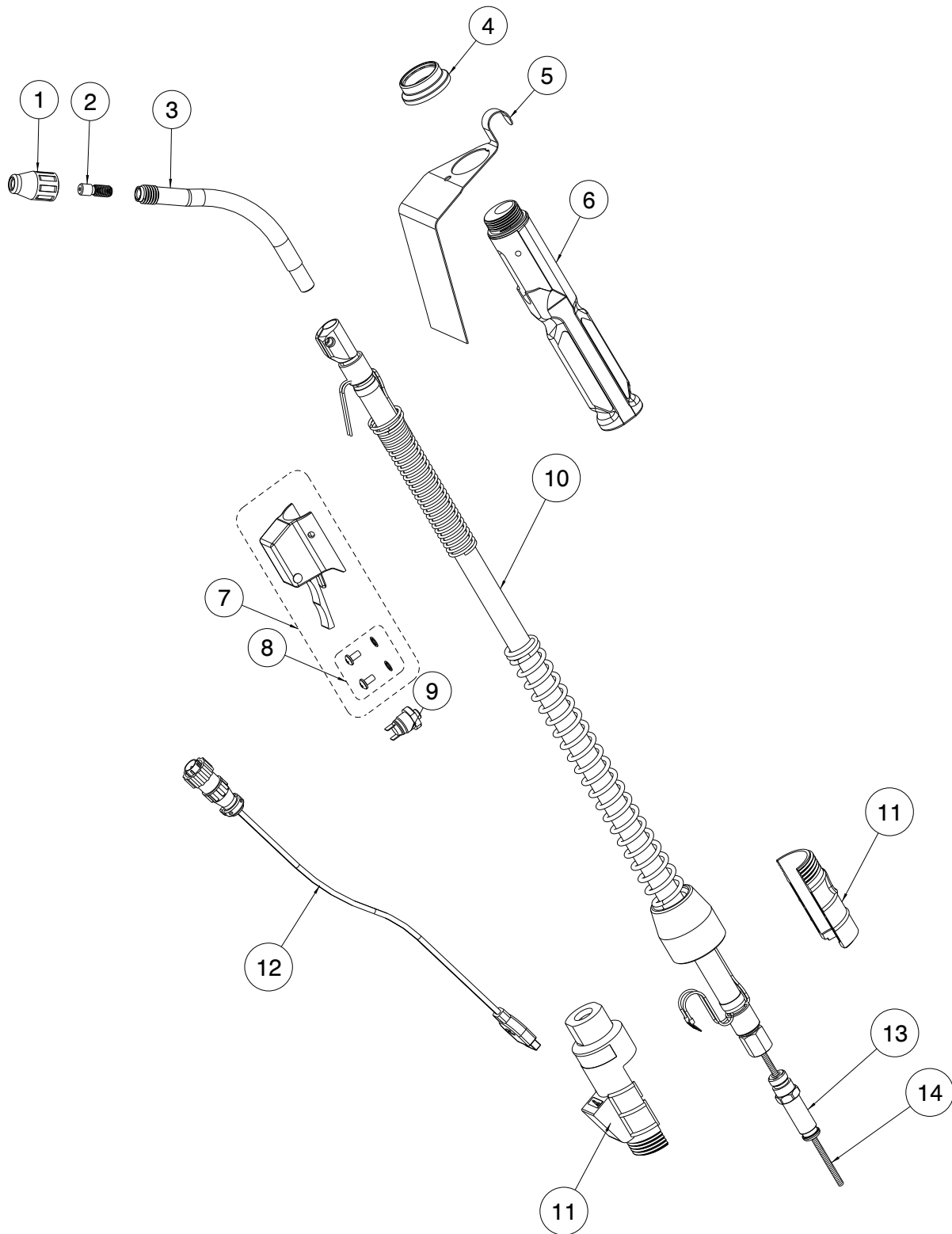
### CONSUMABLE PARTS

| Contact Tip                                  | Wire Size                |                       |                       |                       |                       |
|----------------------------------------------|--------------------------|-----------------------|-----------------------|-----------------------|-----------------------|
|                                              | .045"<br>(1.2 mm)        | .068"<br>(1.72 mm)    | 5/64"<br>(2.0 mm)     | 7/64"<br>(2.8 mm)     | 1/8"<br>(3.2 mm)      |
| 350A                                         | 14FC-045<br>1140-1125    | 14FC-068<br>1140-1126 | 14FC-564<br>1140-1127 | N/A                   | N/A                   |
| 450A                                         | N/A                      | N/A                   | 16FC-564<br>1160-1125 | 16FC-764<br>1160-1127 | 16FC-120<br>1160-1128 |
| Insulated Guide<br>Nozzle                    | Stickout Size            |                       |                       |                       |                       |
|                                              | 3/4" (19 mm)             |                       | 1-1/2" (38 mm)        |                       | Thread Protector      |
| 350A                                         | 24FC-150<br>1241-1027    |                       | N/A                   |                       | 24FC-P<br>1241-1025   |
| 450A                                         | 26FC-150<br>1261-1026    |                       | 26FC-275<br>1261-1027 |                       | 26FC-P<br>1261-1025   |
|                                              | Conduit                  |                       |                       |                       |                       |
|                                              | 15 ft (5 m)              |                       |                       |                       |                       |
| 350A 5/64" - 3/32"<br>(2.0 mm - 2.4 mm) Wire | 43FC-332-15<br>1440-1031 |                       |                       |                       |                       |
| 450A 5/64" - 3/32"<br>(2.0 mm - 2.4 mm) Wire | 44FC-332-15<br>1440-1034 |                       |                       |                       |                       |
| 450A 7/64" - 1/8"<br>(2.8 mm - 3.2 mm) Wire  | 44FC-18-15<br>1440-1036  |                       |                       |                       |                       |

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# MIG Welding Products & Accessories

## FLUXCORED Replacement Parts



| FLUXCORED MIG GUNS 350 & 450 AMP REPLACEMENT PARTS LIST |                                             |                                 |                                 |
|---------------------------------------------------------|---------------------------------------------|---------------------------------|---------------------------------|
| #                                                       | DESCRIPTION                                 | 350 AMP                         | 450 AMP                         |
| 1                                                       | Insulated Guide (3/4" Stickout)             | <b>24FC-150</b><br>1241-1027    | <b>26FC-150</b><br>1261-1026    |
|                                                         | Insulated Guide (1-1/2" Stickout)           | <b>24FC-275</b><br>1241-1026    | <b>26FC-275</b><br>1261-1027    |
|                                                         | Thread Protector                            | <b>24FC-P</b><br>1241-1025      | <b>26FC-P</b><br>1261-1025      |
| 2                                                       | Contact Tip, .045" (1.2 mm)                 | <b>14FC-045</b><br>1140-1125    | N/A                             |
|                                                         | Contact Tip, .068" (1.72 mm)                | <b>14FC-068</b><br>1140-1126    | N/A                             |
|                                                         | Contact Tip, 5/64" (2.0 mm)                 | <b>14FC-564</b><br>1140-1127    | <b>16FC-564</b><br>1160-1125    |
|                                                         | Contact Tip, 3/32" (2.4 mm)                 | <b>14FC-332</b><br>1140-1128    | N/A                             |
|                                                         | Contact Tip, 7/64" (2.8 mm)                 | N/A                             | <b>16FC-764</b><br>1160-1127    |
|                                                         | Contact Tip, 1/8" (3.2 mm)                  | N/A                             | <b>16FC-120</b><br>1160-1128    |
| 3                                                       | Conductor Tube<br>(60 Degree, Standard)     | <b>64FC-60</b><br>1641-1127     | <b>66FC-60</b><br>1661-1127     |
|                                                         | Conductor Tube<br>(45 Degree)               | <b>64FC-45</b><br>1641-1126     | <b>66FC-45</b><br>1661-1126     |
|                                                         | Conductor Tube<br>(180 Degree, Straight)    | N/A                             | <b>66FC-180</b><br>1661-1129    |
| 4                                                       | Heat Shield Nut                             | <b>SE86FC-R2</b><br>2060-2065   |                                 |
| 5                                                       | Heat Shield                                 | <b>156W-HS</b><br>2062-2157     |                                 |
| 6                                                       | Handle                                      | <b>SE86FC-H</b><br>2060-2063    |                                 |
| 7                                                       | Trigger Assembly                            | <b>SE96</b><br>2060-2056        |                                 |
| 8                                                       | Trigger Housing Screw                       | <b>SE96-SW</b><br>2060-2055     |                                 |
| 9                                                       | Trigger Switch                              | <b>SE96-B</b><br>2060-2054      |                                 |
| 10                                                      | Cablehoz® Assembly, 10 ft (3 m)             | N/A                             | <b>SEFC450-10C</b><br>1741-2125 |
|                                                         | Cablehoz Assembly, 15 ft (5 m)              | <b>SEFC350-15C</b><br>1730-2043 | <b>SEFC450-15C</b><br>1741-2126 |
| 11                                                      | Rear Case                                   | <b>M6RC</b><br>2660-2018        |                                 |
| 12                                                      | Control Wire (Tweco®)                       | <b>MAK-354</b><br>2642-2460     |                                 |
|                                                         | Control Wire (Miller®)                      | <b>MSAK-354</b><br>2642-2470    |                                 |
|                                                         | Control Wire (Lincoln®)                     | <b>LAK-354</b><br>2642-2450     |                                 |
| 13                                                      | Connector Plug (Tweco)                      | <b>FC350-174H</b><br>2061-2115  | <b>FC450-174H</b><br>2061-2116  |
|                                                         | Connector Plug (Miller)                     | <b>FC350-174MH</b><br>2061-2117 | <b>FC450-174MH</b><br>2061-2118 |
|                                                         | Connector Plug (Lincoln)                    | <b>173FCH</b><br>2041-2131      | <b>176FCH</b><br>2041-2132      |
| 14                                                      | Conduit, 10 ft (3 m)<br>3/32" (2.4 mm)      | <b>43FC-332-10</b><br>1440-1030 | N/A                             |
|                                                         | Conduit, 15 ft (5 m)<br>3/32" (2.4 mm)      | <b>43FC-332-15</b><br>1440-1031 | <b>44FC-332-15</b><br>1440-1034 |
|                                                         | Conduit, 10 ft (3 m)<br>1/8" (3.2 mm)       | N/A                             | <b>44FC-18-10</b><br>1440-1035  |
|                                                         | Conduit, 15 ft (3 m)<br>1/8" (3.2 mm)       | N/A                             | <b>44FC-18-15</b><br>1440-1036  |
| NS                                                      | Protective Cable Wrap, 50 ft (15 m) per box | <b>TCR50</b><br>9900-1150       |                                 |

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## TWECO® SPOOL GUN SERIES

### FEATURES & BENEFITS

#### Excellent service and ease of operation

- ideal for aluminum, stainless steel and mild steel welding
- holds standard 4" (102mm) diameter spools
- long cables allow operator to access hard to weld areas

#### Comfortable handle design

- pistol grip
- with outer spool tension control
- 3-turn potentiometer for fine wire feed speed control
- 3-turn potentiometer for fine wire feed speed control found on Part No. SG200-25-3545 (Stock No. 1027-1392), SG200TA-25-3545 (Stock No. 1027-1391) and SSG225-25-3545 (Stock No. 1027-1370) Spool guns

#### Quick disconnect conductor tube

- three layer conductor tube construction (copper tube/silicon-resin glass insulator/metal jacket)
- standard straight (180°) conductor tube
- optional 30° rigid conductor tube or Knucklehead® flexible conductor tube

#### Adapts to most welding machines

- Part No. SG200-25-3545 (Stock No. 1027-1392) and SSG225-3545 (Stock No. 1027-1370) adapts to most welding machines with the use of Control Box Part No. WSG-1 (Stock No. 1028-1295)
- control box provides the gas solenoid with pre/post purge control and run in control for arc starting
- Part No. SG160TA-12-3035 (Stock No. 1027-1390) and SG200TA-25-3545 (Stock No. 1027-1391) is designed to work with Thermal Arc® new inverter technology machines



CONTROL BOX - Part No. ESG-1 (Stock No. 1028-1295)  
Requires Jumper Cord, Part No. SSG300-106JC  
(Stock No. 2031-2150)

| MODEL             | OUTPUT         |                        |                       | PROCESS |          | STANDARD<br>OPTIONS | APPLICATION    |                 |
|-------------------|----------------|------------------------|-----------------------|---------|----------|---------------------|----------------|-----------------|
|                   | Current (Amps) | Duty Cycle Mixed Gases | Wire Diameter in (mm) | MIG     | Aluminum | Rear Connector      | Light Duty Fab | Medium Duty Fab |
| Spool Gun - 160   | 160            | 20%                    | Up to .035" (0.9 mm)  | ●       | ●        |                     | ●              |                 |
| Spool Gun - 200   | 200            | 60%                    | Up to 3/64" (1.2 mm)  | ●       | ●        |                     | ●              | ●               |
| Spool Gun - 200TA | 200            | 60%                    | Up to 3/64" (1.2 mm)  | ●       | ●        |                     | ●              | ●               |
| Spool Gun - 300   | 300            | 60%                    | Up to 1/16" (1.6 mm)  | ●       | ●        |                     | ●              | ●               |

## Tweco® Spool Gun

### 160 Amp

### 20% Duty Cycle



#### TWECO STYLE REAR CONNECTOR\*

| Wire Size                | Length      | Part No.          | Stock No. |
|--------------------------|-------------|-------------------|-----------|
| Up to 0.035"<br>(0.9 mm) | 12 ft (4 m) | SG160TA-12-3035** | 1027-1390 |

\*8-pin Amphenol Style Connector

\*\*Use only on Thermal Arc® 181i power supplies only

## Tweco Spool Gun

### 200 Amp

### 60% Duty Cycle

#### TWECO STYLE REAR CONNECTOR\*\*

| Wire Size                | Length      | Part No.           | Stock No. |
|--------------------------|-------------|--------------------|-----------|
| Up to 0.045"<br>(1.2 mm) | 25 ft (8 m) | SG2000-25-3545     | 1027-1392 |
| Up to 0.045"<br>(1.2 mm) | 25 ft (8 m) | SG200TA-25-3545*** | 1027-1391 |

\*\*10-pin Amphenol Style Connector

\*\*\* Use only on Thermal Arc 252i power supplies only

#### CONTROL WIRE JUMPER CORDS

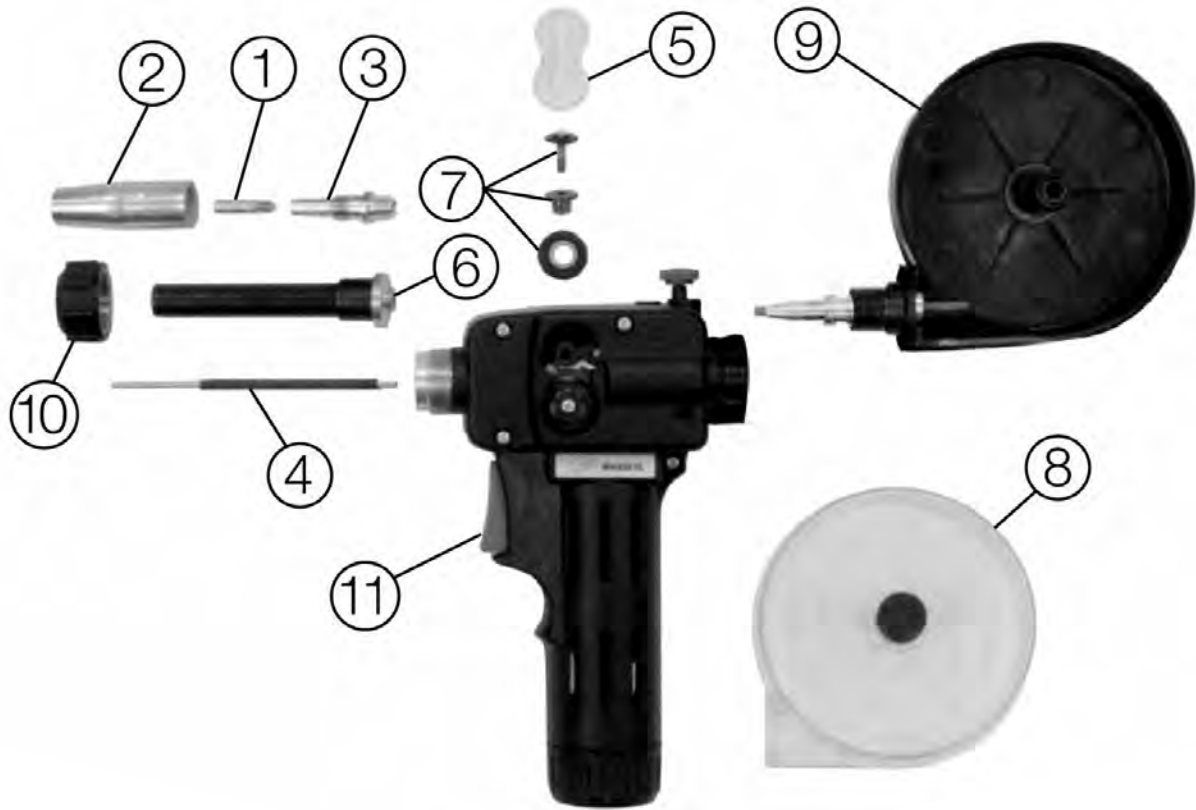
| Manufacturer | Machine               | Part No.     | Stock No. |
|--------------|-----------------------|--------------|-----------|
| Miller®      | Millermatic® 210      | WSPMILL4PJC2 | 2031-2246 |
| Miller       | Millermatic 212       | WSPMILL4PJC  | 2031-2245 |
| Lincoln®     | Power MIG® 255C       | WSPLIN7PJC   | 2031-2247 |
| Hobart®      | Ironman® 210, 250     | WSPMILL4PJC  | 2031-2245 |
| Esab®        | Migmaster® 203        | WSPESAB7PJC  | 2031-2248 |
| Esab         | Migmaster 253         | WSPESAB7PJC  | 2031-2248 |
| Esab         | Migmaster 250         | WSPESAB7PJC  | 2031-2248 |
| Generic      | See pin configuration | WSPGENJC     | 2031-2249 |

Use with Spool Gun - Part No. SG200-25-3545 (Stock No. 1027-1392)

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## Tweco® Spool Gun 160 &amp; 200 Amp Replacement Parts



## TWECO SPOOL GUN 160 &amp; 200 AMP REPLACEMENT PARTS LIST

| # | DESCRIPTION                | PART NO. / STOCK NO.  | #  | DESCRIPTION                                   | PART NO. / STOCK NO.      |
|---|----------------------------|-----------------------|----|-----------------------------------------------|---------------------------|
| 1 | Contact Tip .023 (0.6 mm)  | 11-23<br>1110-1100    | 7  | .023 Guide Roll Assembly                      | WSPGR023<br>2031-2234     |
|   | Contact Tip .030 (10.8 mm) | 11-30<br>1110-1101    |    | .035 Drive Roll Assembly                      | WSPDR035045<br>2031-2229  |
|   | Contact Tip .035 (10.9 mm) | 11-35<br>1110-1102    |    | .035 Guide Roll Assembly                      | WSPGR035045<br>2031-2235  |
| 2 | Nozzle 3/8" (9.5 mm)       | 21T-37<br>1210-1300   |    | .023 Drive Roll Assembly -<br>U-Shaped Smooth | WSPDRU023<br>2031-2250    |
|   |                            | 21-37<br>1210-1100    |    | .023 Guide Roll Assembly -<br>U-Shaped Smooth | WSPGRU023<br>2031-2251    |
|   | Nozzle 1/2" (12.7 mm)      | 21-50<br>1210-1110    |    | .035 Drive Roll Assembly -<br>U-Shaped Smooth | WSPDRU035045<br>2031-2252 |
|   |                            | 21-50F<br>1210-1112   |    | .035 Guide Roll Assembly -<br>U-Shaped Smooth | WSPGRU035045<br>2031-2253 |
|   | Nozzle 5/8" (15.9 mm)      | 21-62<br>1210-1120    | 8  | Spool Case Cover                              | WSPSCC<br>2031-2233       |
| 3 | Gas Diffuser               | 51<br>1510-1101       | 9  | Complete Spool Case                           | WSPSC<br>2031-2232        |
| 4 | Conduit                    | SPG66065<br>2031-2107 | 10 | Conductor Tube Nut                            | WSP62N<br>2031-2226       |
| 5 | Drive Roll Cover           | WSPDRC<br>2031-2227   | 11 | Trigger Assembly                              | WSP92<br>2031-2231        |
| 6 | Conductor Tube             | WSP62180<br>2031-2225 | NS | Replacement Motor                             | WSPMOTOR<br>2031-2237     |
| 7 | .023 Drive Roll Assembly   | WSPDR023<br>2031-2228 | NS | Key Stock for Drive Roll                      | WSPKEY<br>2031-2239       |

# **Tweco® Spool Gun** **300 Amp** **60% Duty Cycle**

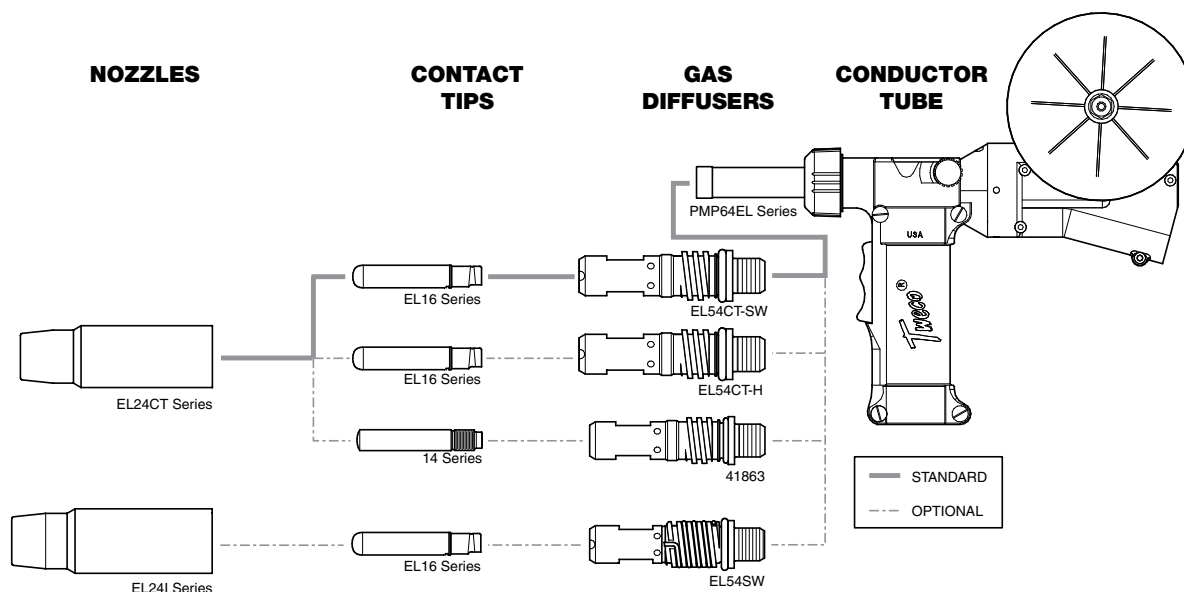


## **TWECO STYLE REAR CONNECTOR\***

| Wire Size               | Length      | Part No.           | Stock No. |
|-------------------------|-------------|--------------------|-----------|
| Up to 1/16"<br>(1.6 mm) | 25 ft (8 m) | <b>SSG225-3545</b> | 1027-1370 |

\* Requires the use of the ESG-1 (Stock No. 1028-1295) Control Box for most welding machines  
When using the 300A Spool Gun with Thermal Arc® ArcMaster® MST Series machines, use Thermal Arc SGI100 Spool Gun Interface Box, Part No. W4009115

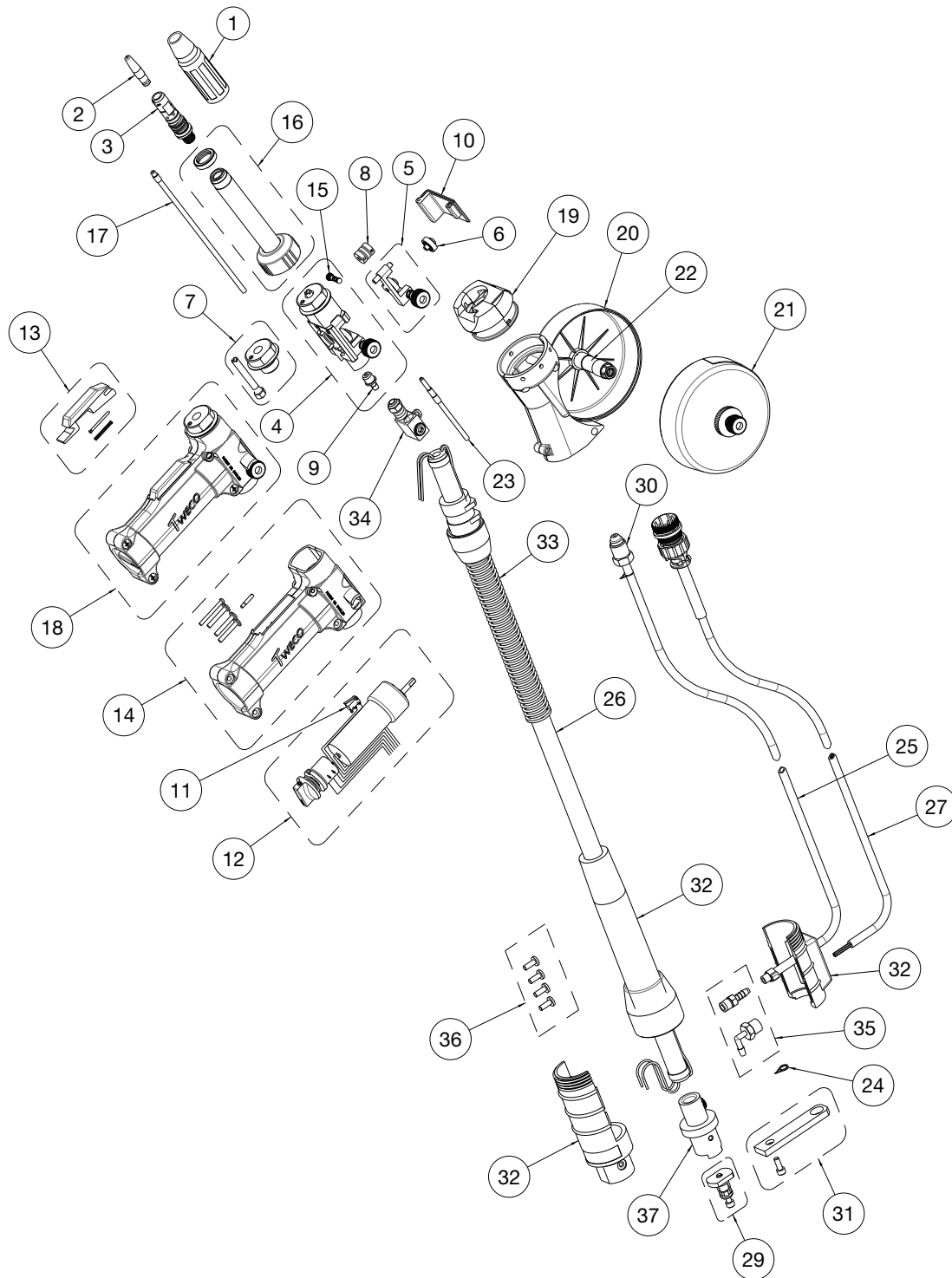
**Standard Conductor Tube** – PMP64EL-180 (Stock No. 1642-1140)



Refer to pages 88-103 for more complete detail on front end options. Refer to pages 68-69 for parts breakdown information.

# MIG Welding Products & Accessories

## Tweco® Spool Gun 300 Amp Replacement Parts



| <b>TWECO® SPOOL MIG GUN 300 AMP REPLACEMENT PARTS LIST</b> |                                    |                                  |    |                                               |                                   |
|------------------------------------------------------------|------------------------------------|----------------------------------|----|-----------------------------------------------|-----------------------------------|
| #                                                          | DESCRIPTION                        | PART NO./STOCK NO.               | #  | DESCRIPTION                                   | PART NO./STOCK NO.                |
| 1                                                          | Nozzles                            | Refer to Pages 92-101            | 17 | Jump Liner Teflon                             | <b>PMP-44FLX-116</b><br>1644-1095 |
| 2                                                          | Contact Tips                       | Refer to Pages 90-92             |    | Jump Liner Copper                             | <b>PMP-44-116</b><br>1644-1097    |
| 3                                                          | Diffusers                          | Refer to Pages 102-107           | 18 | Spool Gun Assembly w/o Cable & Support        | <b>SSG300G</b><br>2031-2117       |
| 4                                                          | Head Block Assembly                | <b>SPG103</b><br>2031-2100       | 19 | Pivot Assembly                                | <b>ESG186</b><br>2025-2397        |
| 5                                                          | Pressure Arm Assembly              | <b>SPG103-1</b><br>2060-1727     | 20 | Spool Canister Assembly                       | <b>ESG186S</b><br>2025-1392       |
| 6                                                          | Idler Bearing Assembly             | <b>SPG103-8</b><br>2060-1728     | 21 | Spool Cover Assembly                          | <b>ESG186C</b><br>2025-2393       |
| 7                                                          | Adapter Nut & Wire Guide           | <b>EPG66-N</b><br>2031-2096      | 22 | Friction Tube Replacement (5 PC)              | <b>ESG186S-3</b><br>2025-2385     |
| 8                                                          | Drive Roll 0.030" (0.8 mm)         | <b>EPG103-2-0,8</b><br>2031-2091 | 23 | Conduit Assembly                              | <b>ESG44TF-116</b><br>2025-2394   |
|                                                            | Drive Roll 0.035" (0.9 mm)         | <b>EPG103-2-0,9</b><br>2031-2077 | 24 | Wire Tie                                      | <b>BG-53N04</b><br>8040-1998      |
|                                                            | Drive Roll 0.040" (1.0 mm)         | <b>EPG103-2-1,0</b><br>2031-2023 | 25 | Gas Hose Assembly F/SSG Spool Gun             | <b>SSG3003GH</b><br>2060-2741     |
|                                                            | Drive Roll 3/64" (1.2 mm) Standard | <b>EPG103-2-1,2</b><br>2031-2003 | 26 | Extruded Spool Gun Cablehoz, 25 ft (8 m) Long | <b>SSG30025</b><br>2060-2742      |
|                                                            | Drive Roll 1/16" (1.6 mm)          | <b>EPG103-2-1,6</b><br>2031-2022 | 27 | 10 Pin Control Cable Assembly F/SSG Spool Gun | <b>SSG300CW</b><br>2060-2744      |
| 9                                                          | Gas Nipple & Wire Tie              | <b>EPG-FGN</b><br>2031-2082      | 28 | Hex Wrench Set                                | <b>ESG-HW</b><br>2031-2088        |
| 10                                                         | Handle Cover Assembly              | <b>EPG86-2</b><br>2031-2013      | 29 | 25 mm Dinse Connector                         | <b>SSG-DINS25</b><br>2035-2186    |
| 11                                                         | Trigger Switch                     | <b>ESG90</b><br>2025-2399        | 30 | Rear Gas Nipple                               | <b>EPG-RGN</b><br>2031-2083       |
| 12                                                         | Motor Assembly (24VAC)             | <b>SSGM24</b><br>2031-2101       | 31 | Straight Lug                                  | <b>ESG-172SL</b><br>2031-2110     |
| 13                                                         | Trigger Lever                      | <b>SPG-96TL</b><br>2060-2733     | 32 | Rear Case Sub-Assembly                        | <b>SSGT6RC</b><br>2031-2111       |
| 14                                                         | Handle Sub-Assembly                | <b>SSG86</b><br>2060-2739        | 33 | Front Strain Relief Assembly                  | <b>SPG146R</b><br>2031-2112       |
| 15                                                         | Poppet Valve Assembly              | <b>PMP-PV</b><br>2060-2737       | 34 | Cable Connector Assembly                      | <b>SPG102</b><br>2031-2113        |
| 16                                                         | Conductor Tube 30 Degree           | <b>PMP64EL30</b><br>1642-1141    | 35 | Hose Barb Connector                           | <b>ESG6RCUGN</b><br>2031-2114     |
|                                                            | Conductor Tube 180 Degree          | <b>PMP64EL180</b><br>1642-1140   | 36 | 10-24 X 1/2" BH Plastic Screw                 | <b>SSG172PS</b><br>2031-2115      |
|                                                            | Flexible Conductor Tube            | <b>PMP64SFLX360</b><br>1642-1142 | 37 | Rear Power Connector                          | <b>ESG172</b><br>2031-2116        |
| 17                                                         | Jump Liner                         | <b>PMP44PTF116</b><br>1644-1096  | NS | Protective Cable Wrap, 50 ft (15 m) per box   | <b>TCR50</b><br>9900-1150         |

## PULLMASTER™ MIG GUN SERIES

### FEATURES & BENEFITS

#### Excellent service and ease of operation

- ideal for aluminum, stainless steel and mild steel welding
- “smart” capability with one-touch digital control to adjust primary parameters such as welding current, material thickness, wire feed speed or arc length trim

#### Comfortable handle design

- pistol grip

#### Quick disconnect conductor tube

- three layer conductor tube construction (copper tube/silicon-resin glass insulator/metal jacket)
- standard straight (180°) conductor tube
- optional 30° rigid conductor tube or Knucklehead™ flexible conductor tube

#### Rugged & durable

- incorporates the Cablehoz® used on other Tweco® MIG guns

#### Improved performance with longer life consumables

- heavy duty contact tips in high heat applications
- gun drilled contact tips for exceptionally smooth surface for improved feed-ability, consistency and longer tip life



CONTROL BOX - Part No. EPG-CR2 (Stock No. 1028-1291)  
Used to connect **standard PullMaster** to most welding machines and requires Jumper Cord - Part No. PMP354T (Stock No. 2031-2145)

| MODEL          | OUTPUT         |                        |                       | PROCESS |          | STANDARD OPTIONS | APPLICATION    |                 |
|----------------|----------------|------------------------|-----------------------|---------|----------|------------------|----------------|-----------------|
|                | Current (Amps) | Duty Cycle Mixed Gases | Wire Diameter in (mm) | MIG     | Aluminum | Rear Connector   | Light Duty Fab | Medium Duty Fab |
| PullMaster 300 | 300            | 60%                    | Up to 1/16" (1.6 mm)  | ●       | ●        | ●                | ●              | ●               |



# **PullMaster™ Air-Cooled MIG Gun** **300 Amp** **60% Duty Cycle, Mixed Gases**

## **SMART - TWECO® STYLE REAR CONNECTOR**

| Wire Size               | Length         | Part No.           | Stock No. |
|-------------------------|----------------|--------------------|-----------|
| Up to 1/16"<br>(1.6 mm) | 33 ft (10.1 m) | <b>PMP333-3545</b> | 1027-1407 |
|                         | 50 ft (15.2 m) | <b>PMP350-3545</b> | 1027-1408 |

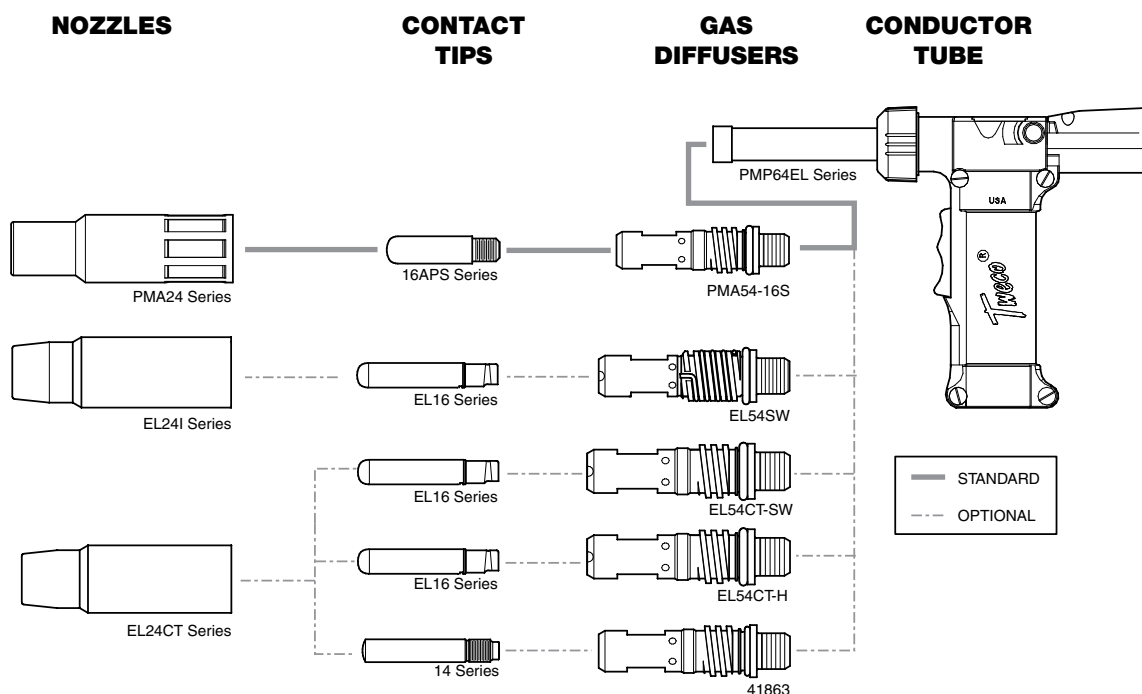
## **STANDARD - TWECO STYLE REAR CONNECTOR\***

| Wire Size               | Length         | Part No.           | Stock No. |
|-------------------------|----------------|--------------------|-----------|
| Up to 1/16"<br>(1.6 mm) | 33 ft (10.1 m) | <b>PMP333-3545</b> | 1027-1401 |
|                         | 50 ft (15.2 m) | <b>PMP350-3545</b> | 1027-1402 |

Note: The PullMaster Smart MIG® Guns are used only with the Thermal Arc® PowerMaster® SP machines.

\* Adapter kits are available to fit Tweco rear connection to most wire feeders.

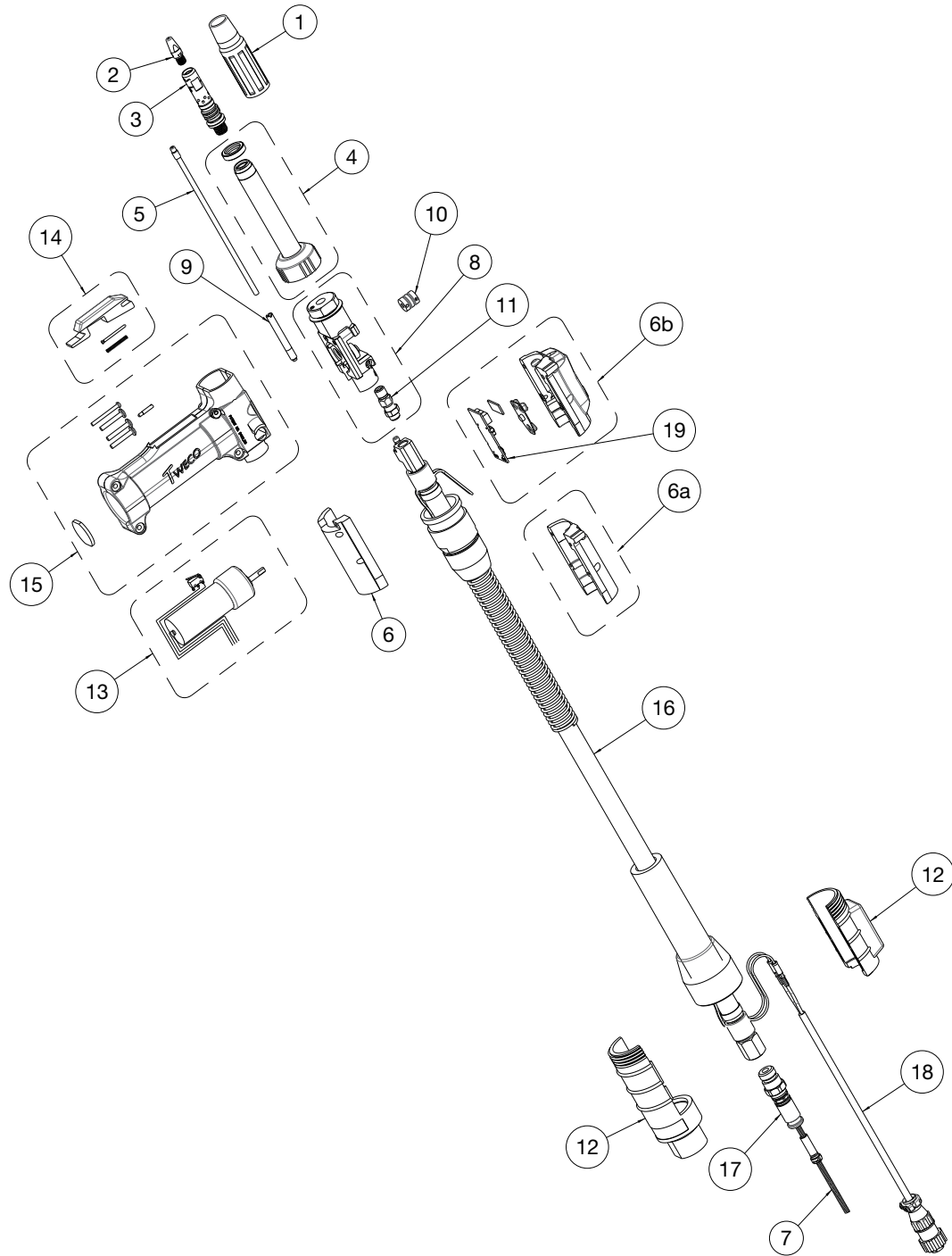
**Standard Conductor Tube** – PMP64EL-180 (Stock No. 1642-1140)



Refer to pages 88-103 for more complete detail on front end options. Refer to pages 72-73 for parts breakdown information.

# MIG Welding Products & Accessories

## PullMaster™ Air-Cooled Replacement Parts



## PULLMASTER™ AIR-COOLED MIG GUN REPLACEMENT PARTS LIST

| #  | DESCRIPTION                                                                              | PART NO./STOCK NO.          | #  | DESCRIPTION                                      | PART NO./STOCK NO.         |
|----|------------------------------------------------------------------------------------------|-----------------------------|----|--------------------------------------------------|----------------------------|
| 1  | Nozzles                                                                                  | Refer to Pages 93-101       |    | Drive Roll 3/64" (1.2 mm) Wire                   | EPG103-2-1.2<br>2031-2003  |
| 2  | Contact Tips                                                                             | Refer to Pages 90-92        |    | Drive Roll 1/16" (1.6 mm) Wire                   | EPG103-2-1.6<br>2031-2022  |
| 3  | Diffuser                                                                                 | PMA54-16S<br>1543-1106      |    | Drive Roll V-Groove<br>1/16" (1.6 mm) Steel Wire | EPG103-2-1.6V<br>2031-2134 |
| 4  | Conductor Tube                                                                           | Refer to Pages<br>102-105   | 10 | Drive Roll V-Groove<br>3/64" (1.2 mm) Steel Wire | EPG103-2-1.2V<br>2031-2135 |
|    | Teflon Jump Liner, Flex Tube                                                             | PMP-44FLX-116<br>1644-1095  |    | Drive Roll V-Groove<br>.035" (0.9 mm) Steel Wire | EPG103-2-0.9V<br>2031-2136 |
| 5  | Teflon Jump Liner, Rigid Tubes                                                           | PMP-44PTF-116<br>1644-1096  | 11 | Power Cable Connector Assembly                   | SPG-RWG<br>2031-2137       |
|    | Bronze Jump Liner for Steel Wires,<br>Rigid Tubes                                        | PMP-44-116<br>1644-1097     | NS | Handle Cover Assembly                            | EPG86-2<br>2031-2013       |
| 6a | Support Assembly Front (Std)                                                             | EPG186<br>2031-2046         | 12 | Rear Case Assembly                               | PMP-T6RC<br>2060-2731      |
| 6b | Support Assembly Front<br>(Including Smart Cover, Pcb Membrane,<br>Lens & Lower Support) | PMPS186<br>2060-2725        | 13 | Motor Assembly (24VDC)                           | PMP-M24<br>2060-2732       |
|    | 33 ft (10 m) Conduit Assembly,<br>3/64" - 1/16" (1.2 mm - 1.6 mm) Wire                   | PMP44-116-33<br>1441-1125   | 14 | Trigger Lever                                    | SPG-96TL<br>2060-2733      |
|    | 50 ft (15 m) Conduit Assembly,<br>3/64" - 1/16" (1.2 mm - 1.6 mm) Wire                   | PMP44-116-50<br>1441-1126   | 15 | Handle Assembly                                  | SPG86<br>2060-2734         |
|    | 33 ft (10 m) Conduit Assembly,<br>.035" - .045" (0.9 mm - 1.1 mm) Wire                   | PMP44-3545-33<br>1441-1127  | 16 | Cablehoz® Assembly 33 ft (10 m) Standard         | PMP300-33<br>2060-2750     |
|    | 50 ft (15 m) Conduit Assembly,<br>.035" - .045" (0.9 mm - 1.1 mm) Wire                   | PMP44-3545-50<br>1441-1128  |    | Cablehoz Assembly 50 ft (15 m) Standard          | PMP300-50<br>2060-2751     |
| 7  | 33 ft (10 m) Conduit Assembly,<br>3/64" - 1/16" (1.2 mm - 1.6 mm) Steel Wire             | PMPS44-116-33<br>1441-1129  | 17 | Connector Plug                                   | Refer to Page 86           |
|    | 50 ft (15 m) Conduit Assembly,<br>3/64" - 1/16" (1.2 mm - 1.6 mm) Steel Wire             | PMPS44-116-50<br>1441-1130  | 18 | Control Wire (Standard)                          | MS354-DSM<br>2060-2140     |
|    | 33 ft (10 m) Conduit Assembly,<br>.035" - .045" (0.9 mm - 1.1 mm) Steel Wire             | PMPS44-3545-33<br>1441-1131 | 19 | Replacement PCB                                  | PM85-PCB<br>2060-2738      |
|    | 50 ft (15 m) Conduit Assembly,<br>.035" - .045" (0.9 mm - 1.1 mm) Steel Wire             | PMPS44-3545-50<br>1441-1132 |    | Hose Clamp Package of 5                          | BG-53N04<br>2031-2088      |
| 8  | Head Block Assembly                                                                      | PMP103<br>2060-1726         |    | Hex Key                                          | EPG-HW<br>2031-2088        |
| NS | Pressure Arm Assembly                                                                    | SPG103-1<br>2060-1727       |    | Poppet Valve Assembly                            | PMP-PV<br>2060-2737        |
|    | Idler Bearing Assembly                                                                   | SPG103-8<br>2060-1728       |    | Tweco® Control Wire                              | EPG354T<br>2031-2084       |
| 9  | Front Wire Guide Assembly (Aluminum)                                                     | PMPS-106TA<br>2060-1729     | NS | Miller® Control Wire                             | EPG354M<br>2031-2086       |
|    | Front Wire Guide Assembly (Steel)                                                        | PMPS-106TA<br>2060-1729     |    | Lincoln® Control Wire                            | EPG354L<br>2031-2085       |
| 10 | Drive Roll .030" (0.8 mm) Wire                                                           | EPG103-2-0.8<br>2031-2091   |    | EPG-CR2 Jumper Wire                              | PMP354T<br>2031-2145       |
|    | Drive Roll .035" (0.9 mm) Wire                                                           | EPG103-2-0.9<br>2031-2077   |    | Protective Cable Wrap, 50 ft (15 m) per box      | TCR50<br>9900-1150         |
|    | Drive Roll .040" (1.0 mm) Wire                                                           | EPG103-2-1.0<br>2031-2023   |    |                                                  |                            |

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## PULSEMASTER™ WATER-COOLED MIG GUN SERIES

### FEATURES & BENEFITS

#### One-touch, on-the-fly controls

- “smart” capability with one-touch digital control to adjust primary parameters such as welding current, material thickness, wire feed speed or arc length trim
- standard MIG gun without “smart” capability

#### Exceptional weld bead

- using twin-pulse mode, get the perfect weld bead that you want

#### Operator appeal and reduces operator fatigue

- ergonomic handle to reduce operator fatigue
- low bench weight for easy to handle gun

#### Durable for industrial applications

- heavy duty design for industrial application environments
- impact resistant handle and trigger design

#### Lower heat in the handle and conductor tube

- heavy duty contact tip and diffuser to act as “heat sink”
- increased interface between contact tip & gas diffuser improves electrical conductivity

#### Improved performance with longer life consumables

- heavy duty contact tips in high heat applications
- gun drilled contact tips for exceptionally smooth surface for improved feed-ability, consistency and longer tip life



Tweco® PulseMaster Smart MIG® Gun with digital display – use with Thermal Arc® SP machines only

Tweco Standard PulseMaster MIG Gun

| MODEL           | OUTPUT         |                        |                       | PROCESS |          | STANDARD OPTIONS |                                     |                | APPLICATION    |                 |                |
|-----------------|----------------|------------------------|-----------------------|---------|----------|------------------|-------------------------------------|----------------|----------------|-----------------|----------------|
|                 | Current (Amps) | Duty Cycle Mixed Gases | Wire Diameter in (mm) | MIG     | Aluminum | Smart Capability | Standard Without “Smart” Capability | Rear Connector | Light Duty Fab | Medium Duty Fab | Heavy Duty Fab |
| PulseMaster 400 | 400            | 100%                   | Up to 1/16" (1.6 mm)  | ●       | ●        | ●                | ●                                   | ●              | ●              |                 |                |
| PulseMaster 500 | 500            | 100%                   | Up to 1/16" (1.6 mm)  | ●       | ●        | ●                | ●                                   | ●              |                |                 | ●              |


Tweco PulseMaster  
Smart MIG® Gun  
with digital display

Tweco Standard  
PulseMaster  
MIG Gun

## PulseMaster™ Water-Cooled Standard Gun - 400 Amp 100% Duty Cycle, Mixed Gases

### TWECO® STYLE REAR CONNECTOR

| Wire Size               | Length      | Part No.    | Stock No. |
|-------------------------|-------------|-------------|-----------|
| Up To .045"<br>(1.2 mm) | 12 ft (4 m) | PMW412-3545 | 1042-1500 |
|                         | 15 ft (5 m) | PMW415-3545 | 1042-1501 |

### MILLER® STYLE REAR CONNECTOR

| Wire Size               | Length      | Part No.     | Stock No. |
|-------------------------|-------------|--------------|-----------|
| Up To .045"<br>(1.2 mm) | 15 ft (5 m) | PMW415M-3545 | 1042-1502 |

### LINCOLN® STYLE REAR CONNECTOR

| Wire Size               | Length      | Part No.     | Stock No. |
|-------------------------|-------------|--------------|-----------|
| Up To .045"<br>(1.2 mm) | 15 ft (5 m) | PMW412L-3545 | 1042-1503 |

### EURO-KWIK STYLE REAR CONNECTOR

| Wire Size               | Length      | Part No.     | Stock No. |
|-------------------------|-------------|--------------|-----------|
| Up To .045"<br>(1.2 mm) | 12 ft (4 m) | PMW412X-3545 | 1042-1505 |

## Standard Gun - 500 Amp 100% Duty Cycle, Mixed Gases

### TWECO STYLE REAR CONNECTOR

| Wire Size               | Length      | Part No.    | Stock No. |
|-------------------------|-------------|-------------|-----------|
| Up To .045"<br>(1.2 mm) | 12 ft (4 m) | PMW512-3545 | 1042-1525 |
|                         | 15 ft (5 m) | PMW515-3545 | 1042-1526 |

### MILLER STYLE REAR CONNECTOR

| Wire Size               | Length      | Part No.     | Stock No. |
|-------------------------|-------------|--------------|-----------|
| Up To .045"<br>(1.2 mm) | 15 ft (5 m) | PMW512M-3545 | 1042-1527 |

### LINCOLN STYLE REAR CONNECTOR

| Wire Size               | Length      | Part No.     | Stock No. |
|-------------------------|-------------|--------------|-----------|
| Up To .045"<br>(1.2 mm) | 15 ft (5 m) | PMW512L-3545 | 1042-1528 |

### EURO-KWIK STYLE REAR CONNECTOR

| Wire Size               | Length      | Part No.     | Stock No. |
|-------------------------|-------------|--------------|-----------|
| Up To .045"<br>(1.2 mm) | 12 ft (4 m) | PMW512X-3545 | 1042-1530 |
|                         | 15 ft (5 m) | PMW515X-3545 | 1042-1531 |

## Smart Gun - 400 Amp 100% Duty Cycle, Mixed Gases

### TWECO STYLE REAR CONNECTOR

| Wire Size               | Length      | Part No.     | Stock No. |
|-------------------------|-------------|--------------|-----------|
| Up To .045"<br>(1.2 mm) | 12 ft (4 m) | PMWS412-3545 | 1042-1510 |
|                         | 15 ft (5 m) | PMWS415-3545 | 1042-1511 |

### EURO-KWIK STYLE REAR CONNECTOR

| Wire Size               | Length      | Part No.      | Stock No. |
|-------------------------|-------------|---------------|-----------|
| Up To .045"<br>(1.2 mm) | 12 ft (4 m) | PMWS312X-3545 | 1042-1515 |
|                         | 15 ft (5 m) | PMWS315X-3545 | 1042-1516 |

## Smart Gun - 500 Amp 100% Duty Cycle, Mixed Gases

### TWECO STYLE REAR CONNECTOR

| Wire Size               | Length      | Part No.     | Stock No. |
|-------------------------|-------------|--------------|-----------|
| Up To .045"<br>(1.2 mm) | 12 ft (4 m) | PMWS512-3545 | 1042-1535 |

### EURO-KWIK STYLE REAR CONNECTOR

| Wire Size               | Length      | Part No.      | Stock No. |
|-------------------------|-------------|---------------|-----------|
| Up To .045"<br>(1.2 mm) | 12 ft (4 m) | PMWS512X-3545 | 1042-1540 |

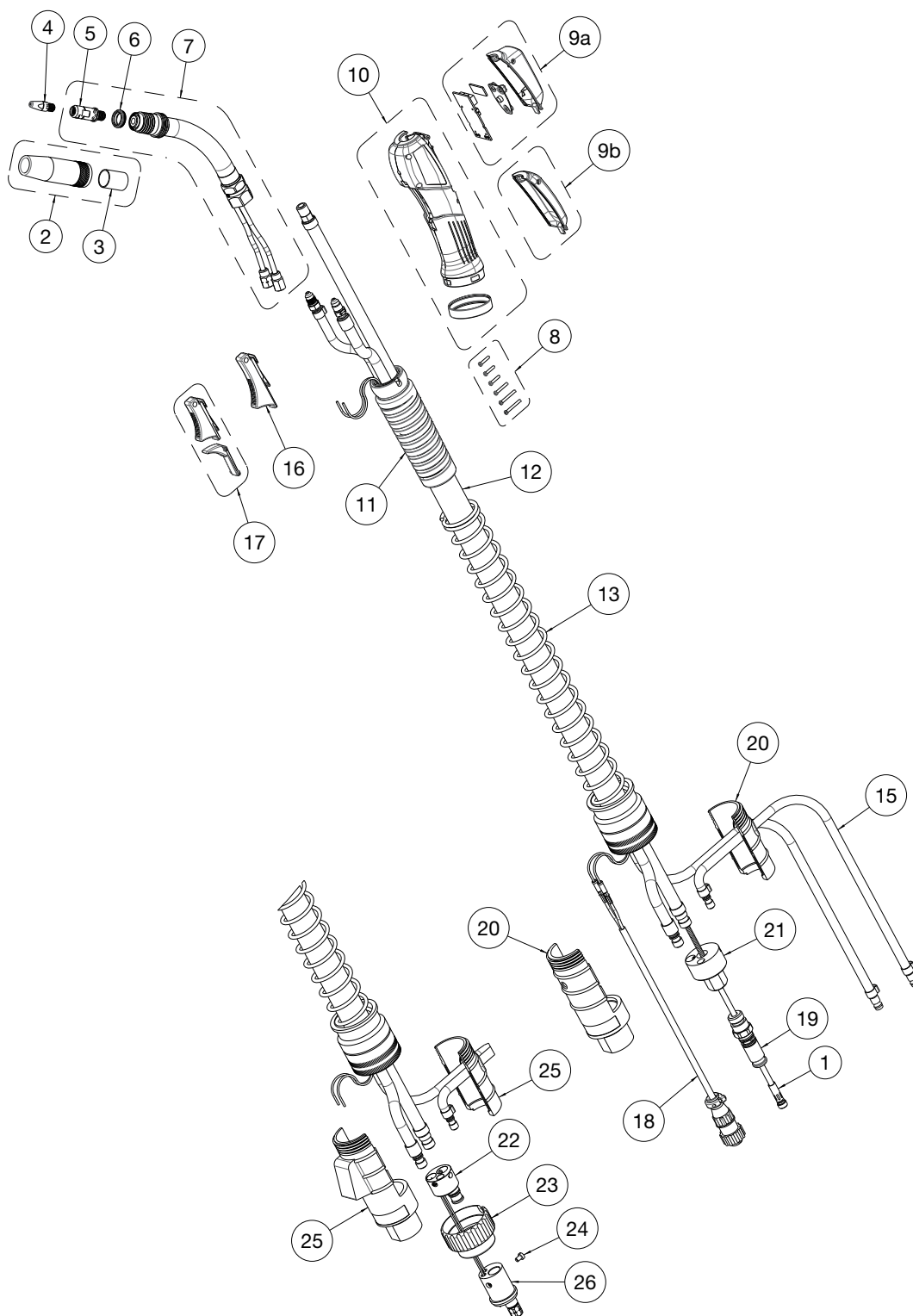
Note: PulseMaster Smart MIG® Guns are used only with the Thermal Arc® SP machines.

Standard Conductor Tube – PMP64EL-180 (Stock No. 1642-1140)  
Conduit Liner – 44 Series



# MIG Welding Products & Accessories

## PulseMaster™ Water-Cooled Replacement Parts



## PULSEMASTER™ WATER-COOLED MIG GUN REPLACEMENT PARTS LIST

| #  | DESCRIPTION                                              | PART NO./ STOCK NO.      | #  | DESCRIPTION                        | PART NO./ STOCK NO.    |
|----|----------------------------------------------------------|--------------------------|----|------------------------------------|------------------------|
| 1  | Conduit Assembly                                         | Refer to Pages 108-109   | 13 | Strain Relief Spring               | QR-SPR<br>3045-1177    |
| 2  | Nozzles                                                  | Refer to Pages 93-101    | 14 | Strain Relief Cap                  | QR-RC<br>3045-1238     |
| 3  | Nozzle Insulator                                         | WC23-1<br>1230-1084      | 15 | Water Hose Assembly                | PMW603-WH<br>2060-2723 |
| 4  | Contact Tips                                             | Refer to Pages 90-92     | 16 | Trigger                            | PM94<br>2060-2712      |
| 5  | Gas Diffuser used w/16P & 16PS Series Contact Tips       | PMW5516<br>1550-1105     | 17 | Trigger & Guard Assembly           | PM94X<br>2060-2713     |
| 6  | Pressure Ring                                            | PMW64-3<br>1644-2900     | 18 | Control Wire Plug                  | MS354-DSM<br>2060-2140 |
| 7  | Conductor Tubes                                          | Refer to Pages 104-107   | 19 | Heavy Duty Connector Plug Assembly | 350-174H<br>2035-2110  |
| 8  | Handle Screws w/ T9 Star Head (12 mm, 16 mm, & 20 mm LG) | PMHSC<br>2060-2705       | 20 | Rear Case                          | PMW6RC<br>2060-2724    |
| 9a | Handle Housing w/ Smart Control Assembly                 | PM84-PCB-HK<br>2060-2706 | 21 | Rear Connector Block (Direct Plug) | WC6-170H<br>2064-2171  |
| 9b | Handle Housing (Blank)                                   | PM84-H<br>2060-2707      | 22 | Rear Connector Block (Euro)        | WC174X-B<br>2044-2182  |
| 10 | Large Handle Assembly w/ Retaining Ring                  | PM84<br>2060-2708        | 23 | Euro-Kwik Connector Nut            | 174X-2<br>2040-2177    |
|    | Small Handle Assembly w/ Retaining Ring                  | PM83<br>2060-2715        | 24 | Euro-Kwik Connector Screw          | 4M-S<br>2011-2004      |
| 11 | Front Cable Support                                      | PMW-SPS<br>2060-2720     | 25 | Euro-Kwik Rear Case                | X6RC<br>2060-2006      |
| 12 | 12 ft (4 m) Cable and Hose Assembly                      | PMW512<br>2060-2721      | 26 | Euro-Kwik Connector Assembly       | WC174X<br>2044-2181    |
|    | 15 ft (5 m) Cable and Hose Assembly                      | PMW515<br>2060-2722      |    |                                    |                        |

## Tweco® Water Coolers

- Vertical or horizontal models available
- Designed for MIG guns up to 500A and TIG torches up to 500A
- 2 gallon reservoir
- 12,000 BTU @ 75 degree differential between ambient and return water temperature
- 1 GPM @ 50 psi (Gear Pump)
- Stainless steel construction eliminates coolant contamination due to electrolyte and chemical reactions
- High efficiency radiator design pulls outside air through radiator
- Available with either Gear or Vane pumps
- Vertical model has molded seamless plastic water tank; virtually eliminates leakage
- Pump bypass to tank on rotary gear pump - keeps pump from overheating
- Vane pumps are equipped with a bypass to eliminate excessive pump wear



### TC900 WATER COOLER

| Description                            | (PART NO. / STOCK NO.) |
|----------------------------------------|------------------------|
| Cooler w/ Gear Pump<br>110V - 50/60 Hz | TC900-G<br>4010-1010   |
| Cooler w/ Vane Pump<br>110V - 50/60 Hz | TC900-V<br>4010-1011   |

### TCV900 WATER COOLER

| Description                            | (PART NO. / STOCK NO.) |
|----------------------------------------|------------------------|
| Cooler w/ Gear Pump<br>110V - 50/60 Hz | TCV900-G<br>4010-1035  |
| Cooler w/ Vane Pump<br>110V - 50/60 Hz | TCV900-V<br>4010-1036  |

# MIG Welding Products & Accessories

## SUPRA® WATER-COOLED MIG GUN

### FEATURES & BENEFITS

#### Operator appeal and reduces operator fatigue

- ergonomic handle to reduce operator fatigue
- low bench weight for easy to handle gun

#### Provides cooling benefits for the front end consumables

- cool running for maximum efficiency and comfort
- increase “weld” life of front end consumables
- large water lines for maximum cooling
- high water flow rates

#### Increased duty cycle at high amperage applications

- 450A series MIG guns @ 100% duty cycle

#### Rugged & durable

- outer cover protects the power cable, water lines and gas hose from weld spatter/abrasion

#### Field repairable

- replacement cable assemblies available – power cable, water-lines, and gas hose
- color coded water lines for easy identification to water-in & water-out

#### Ease of use

- quick water line connections making hook-up easy (Euro style)
- simplified direct rear plug connections
- adapts easily to Miller®, and Lincoln® style machines



| MODEL            | OUTPUT         |                            |                       | PROCESS |          | STANDARD OPTIONS | APPLICATION     |                |
|------------------|----------------|----------------------------|-----------------------|---------|----------|------------------|-----------------|----------------|
|                  | Current (Amps) | Duty Cycle CO <sub>2</sub> | Wire Diameter in (mm) | MIG     | Aluminum | Rear Connector   | Medium Duty Fab | Heavy Duty Fab |
| <b>SUPRA 450</b> | 450            | 100%                       | Up to 1/16" (1.6 mm)  | ●       | ●        | ●                | ●               | ●              |

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**SUPRA® Water-Cooled  
450 Amp  
100% Duty Cycle, CO<sub>2</sub>**

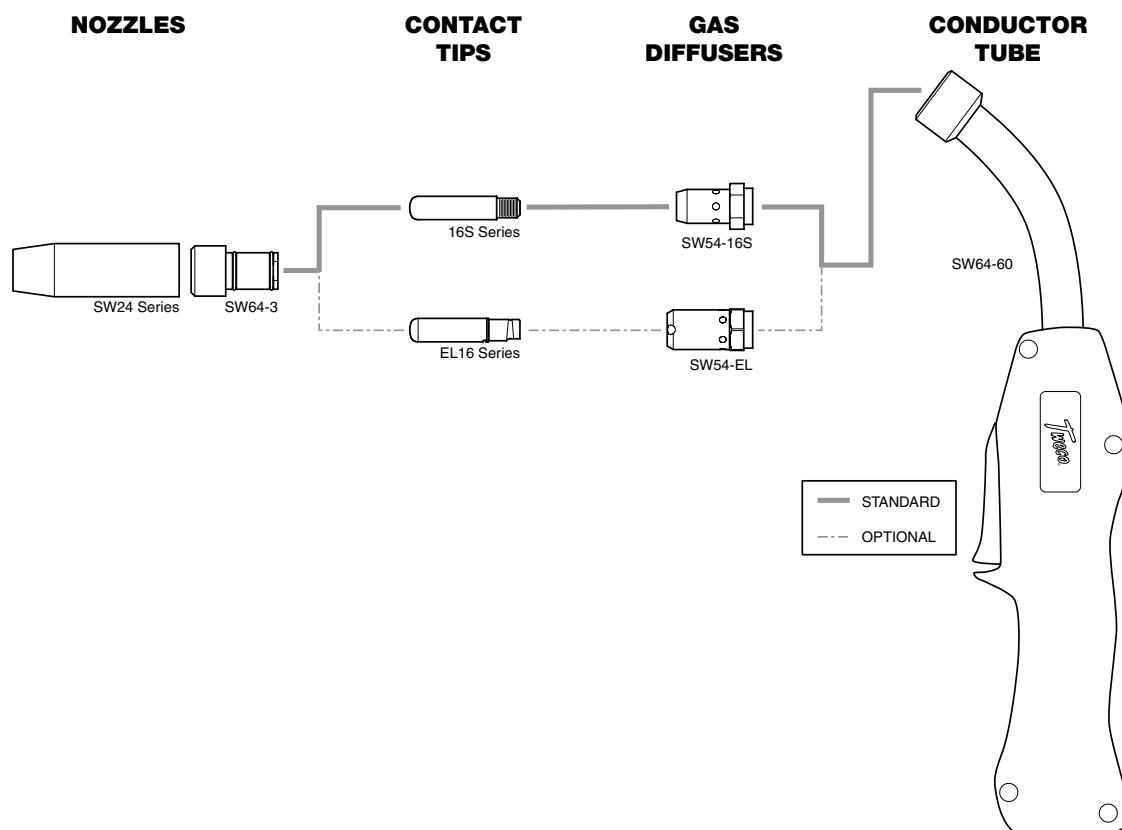
| TWECO® STYLE REAR CONNECTOR* |             |                   |           |
|------------------------------|-------------|-------------------|-----------|
| Wire Size                    | Length      | Part No.          | Stock No. |
| Up To .045"<br>(1.2 mm)      | 15 ft (5 m) | <b>SW415-3545</b> | 1044-1152 |
| Up To 1/16"<br>(1.6 mm)      | 10 ft (3 m) | <b>SW410-116</b>  | 1044-1155 |
|                              | 15 ft (5 m) | <b>SW415-116</b>  | 1044-1157 |

| MILLER® STYLE REAR CONNECTOR |             |                   |           |
|------------------------------|-------------|-------------------|-----------|
| Wire Size                    | Length      | Part No.          | Stock No. |
| Up To 1/16"<br>(1.6 mm)      | 10 ft (3 m) | <b>SW410M-116</b> | 1044-1180 |
|                              | 15 ft (5 m) | <b>SW415M-116</b> | 1044-1182 |

\* Adapter kits are available to fit Tweco rear connection to most wire feeders.

**Standard Conductor Tube** – SW64-60 (Stock No. 1644-1125)

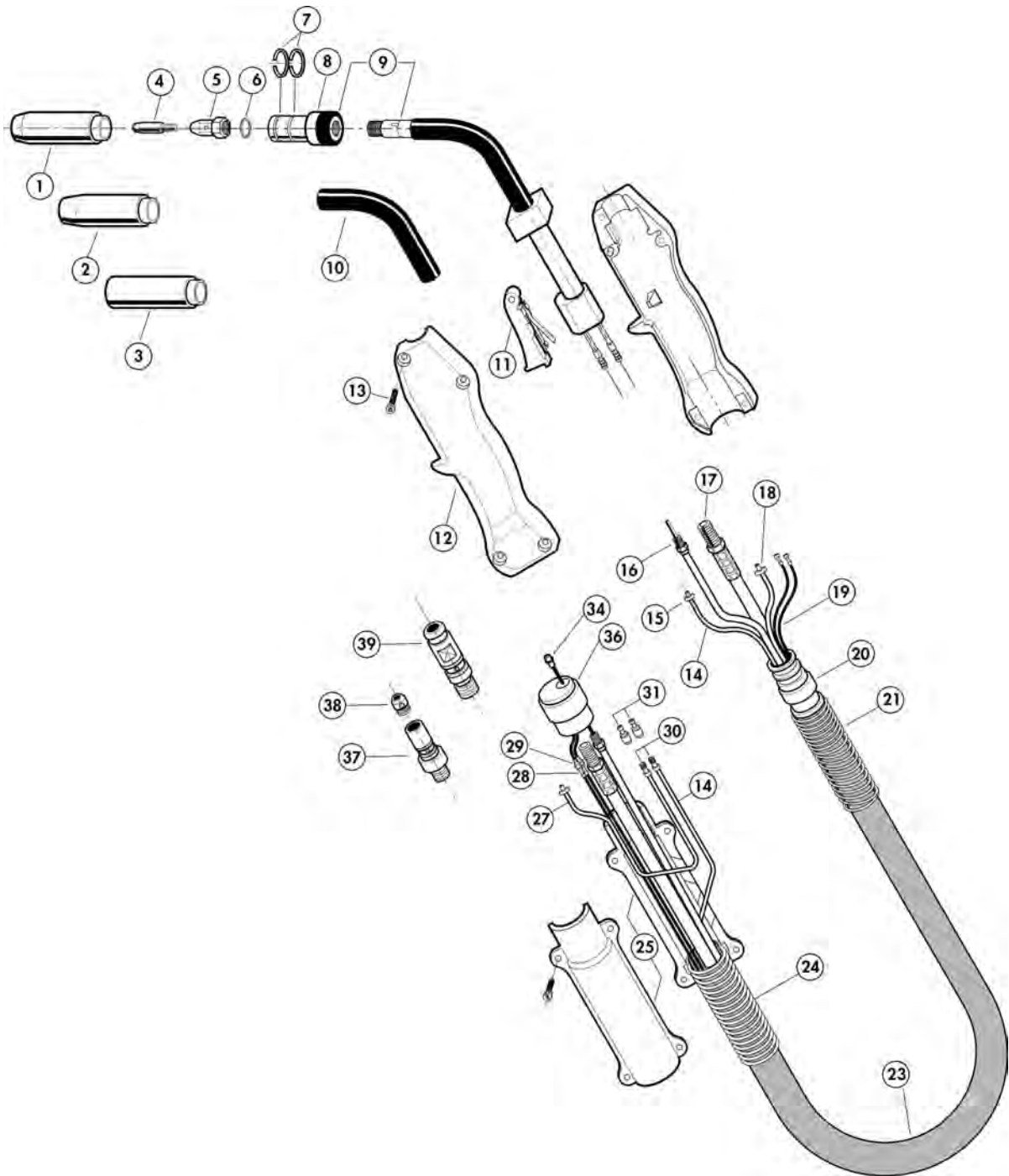
**Conduit Liner** – 44 Series



Refer to pages 88-103 for more complete detail on front end options. Refer to pages 80-81 for parts breakdown information.

# MIG Welding Products & Accessories

## SUPRA® Water-Cooled Replacement Parts





## SUPRA® WATER-COOLED 450 AMP MIG GUN REPLACEMENT PARTS LIST

| #  | DESCRIPTION                      | PART NO./STOCK NO.            | #  | DESCRIPTION                                            | PART NO./STOCK NO.            |
|----|----------------------------------|-------------------------------|----|--------------------------------------------------------|-------------------------------|
| 1  | Nozzle 11/16" (17 mm) Bore       | <b>SW24-17</b><br>1244-1025   | 17 | 12 ft (4 m) Power Cable                                | <b>SW412-PC</b><br>1742-2231  |
| 2  | Nozzle 5/8" (15.5 mm) Bore       | <b>SW24-15</b><br>1244-1026   |    | 15 ft (5 m) Power Cable                                | <b>SW415-PC</b><br>1742-2232  |
| 3  | Nozzle 13/16" (21 mm) Bore       | <b>SW24-21</b><br>1244-1027   | 18 | Gas Hose Clamp (8.7 mm)                                | <b>SW134-G</b><br>2044-1022   |
| 4  | EL16 Series Contact Tip          | <b>Refer to Pages 90-92</b>   | 19 | Control Wire (sold per foot)                           | <b>SW400-CW</b><br>1742-2242  |
|    | 16S Series Contact Tip           |                               | 20 | Front Knuckle Strain Relief                            | <b>Included with item 12</b>  |
| 5  | Diffuser for 16S Series Tips     | <b>SW54-16S</b><br>1540-1115  | 21 | Front Handle Strain Relief                             | <b>SW144-F</b><br>2044-1030   |
|    | Diffuser for EL16 Series Tips    | <b>SW54-EL</b><br>1540-1116   |    | 10 ft (3 m) Complete Cable                             | <b>SW410</b><br>1742-2225     |
| 6  | Insulating Ring                  | <b>SW64-2</b><br>2044-1020    | 23 | 12 ft (4 m) Complete Cable                             | <b>SW412</b><br>1742-2226     |
| 7  | Nozzle Retaining Ring            | <b>SW64-R</b><br>2044-1025    |    | 15 ft (5 m) Complete Cable                             | <b>SW415</b><br>1742-2227     |
| 8  | Nozzle Holder                    | <b>SW64-3</b><br>2044-1019    | 24 | Rear Spring Support                                    | <b>SW144</b><br>2044-1000     |
| 9  | 60° Conductor Tube               | <b>SW64-60</b><br>1644-1125   | 25 | Connector Case Cover with Screws                       | <b>SW184</b><br>2044-1011     |
| 10 | Conductor Tube Insulation        | <b>SW64-1</b><br>2044-1021    | 27 | Water Outlet Hose (sold per foot)                      | <b>SW400-WHO</b><br>1742-2243 |
| 11 | Trigger                          | <b>SW94</b><br>2044-1018      | 28 | Male Wire Terminal                                     | <b>SW194-M</b><br>2044-1003   |
| 12 | Handle Assembly w/ Screws        | <b>SW84</b><br>2044-1023      | 29 | Female Wire Terminal Rear                              | <b>SW194-F</b><br>2044-1004   |
| 13 | Handle Screw                     | <b>SW84-S</b><br>2044-1026    | 30 | Male Water Quick Connect                               | <b>SW-QCM</b><br>2044-1005    |
| 14 | Water Inlet Hose (sold per foot) | <b>SW400-WHI</b><br>1742-2240 | 31 | Female Water Quick Connect                             | <b>SW-QCF</b><br>2044-1006    |
| 15 | Water Hose Clamp (9.5 mm)        | <b>SW134-W</b><br>2044-1002   | 34 | 44 Series Conduit                                      | <b>Refer to Pages 108-109</b> |
| 16 | 10 ft (3 m) Conduit Housing      | <b>SW410-CC</b><br>1742-2235  | 36 | Connector Block<br>(Tweco® & Miller® Rear Connections) | <b>SW174-T</b><br>2044-1010   |
|    | 12 ft (4 m) Conduit Housing      | <b>SW412-CC</b><br>1742-2236  | 37 | Connector Plug - Miller                                | <b>174TL-M</b><br>2035-2131   |
|    | 15 ft (5 m) Conduit Housing      | <b>SW415-CC</b><br>1742-2237  | 38 | Nipple Assembly - Miller                               | <b>174M-N</b><br>2040-2184    |
| 17 | 10 ft (3 m) Power Cable          | <b>SW410-PC</b><br>1742-2230  | 39 | Tweco Connector Plug & O-Rings                         | <b>350-174</b><br>2035-2174   |

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# MIG Welding Products & Accessories

## STANDARD WATER-COOLED MIG GUN

### FEATURES & BENEFITS

#### Operator appeal and reduces operator fatigue

- ergonomic handle to reduce operator fatigue
- low bench weight for easy to handle gun

#### Provides cooling benefits for the front end consumables

- cool running for maximum efficiency and comfort
- increase “weld” life of front end consumables
- large water lines for maximum cooling
- high water flow rates

#### Increased duty cycle at high amperage applications

- 600A series MIG guns @ 100% duty cycle
- large diameter wire capacity up to 7/64”

#### Rugged & durable

- outer cover protects the power cable, water lines and gas hose from weld spatter/abrasion

#### Field repairable

- replacement cable assemblies available – power cable, water-lines, and gas hose
- color coded water lines for easy identification to water-in & water-out

#### Ease of use

- threaded water line connections making hook-up easy (LH CGA)
- simplified direct rear plug connections
- adapts easily to Miller®, and Lincoln® style machines



| MODEL        | OUTPUT         |                            |                       | PROCESS |          | STANDARD OPTIONS | APPLICATION     |                |
|--------------|----------------|----------------------------|-----------------------|---------|----------|------------------|-----------------|----------------|
|              | Current (Amps) | Duty Cycle CO <sub>2</sub> | Wire Diameter in (mm) | MIG     | Aluminum | Rear Connector   | Medium Duty Fab | Heavy Duty Fab |
| Standard 600 | 600            | 100%                       | Up to 7/64" (2.8 mm)  | ●       | ●        | ●                | ●               | ●              |

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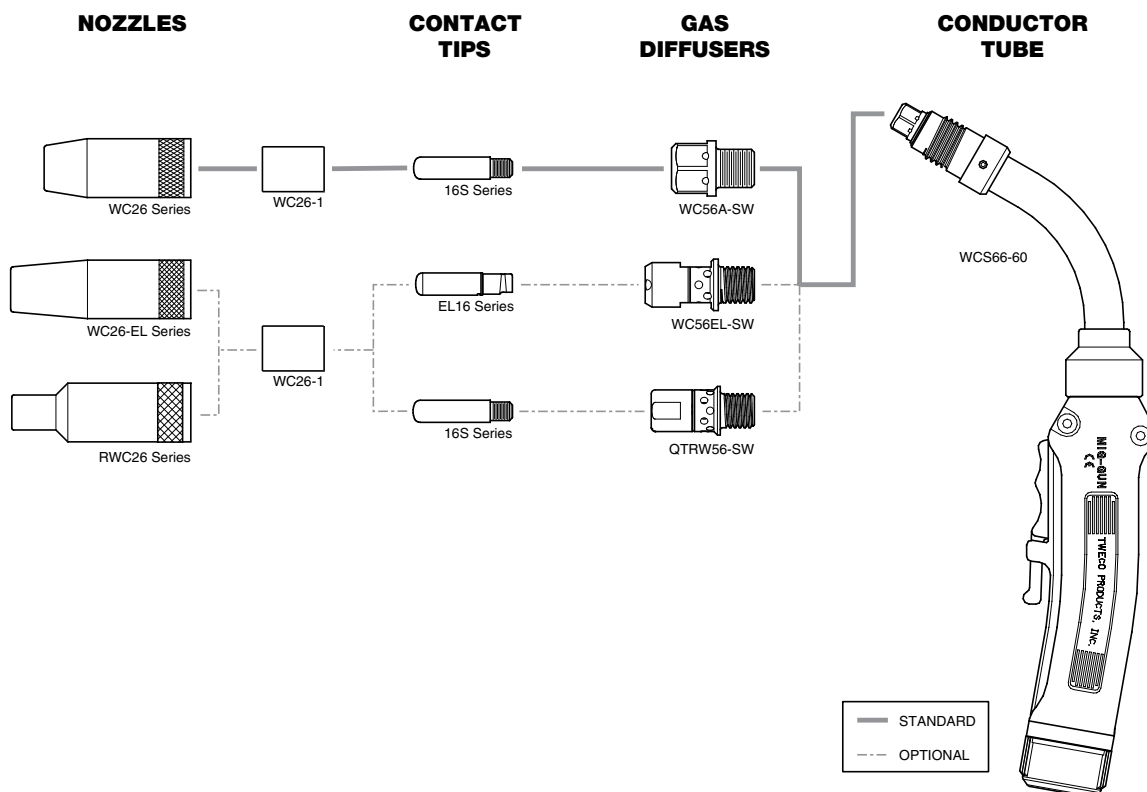
## Standard Water-Cooled 600 Amp 100% Duty Cycle, CO<sub>2</sub>

| TWECO® STYLE REAR CONNECTOR* |             |             |           |
|------------------------------|-------------|-------------|-----------|
| Wire Size                    | Length      | Part No.    | Stock No. |
| Up To 1/16" (1.6 mm)         | 10 ft (3 m) | WCS610-116  | 1064-1114 |
| Up To .045" (1.2 mm)         | 15 ft (5 m) | WCS615-3545 | 1064-1106 |
| Up To 1/16" (1.6 mm)         | 15 ft (5 m) | WCS615-116  | 1064-1116 |
| 3/32" (2.4 mm)               | 15 ft (5 m) | WCS615-332  | 1064-1136 |

\* Adapter kits are available to fit Tweco rear connection to most wire feeders.

**Standard Conductor Tube** – WCS66-60 (Stock No. 1664-1106)

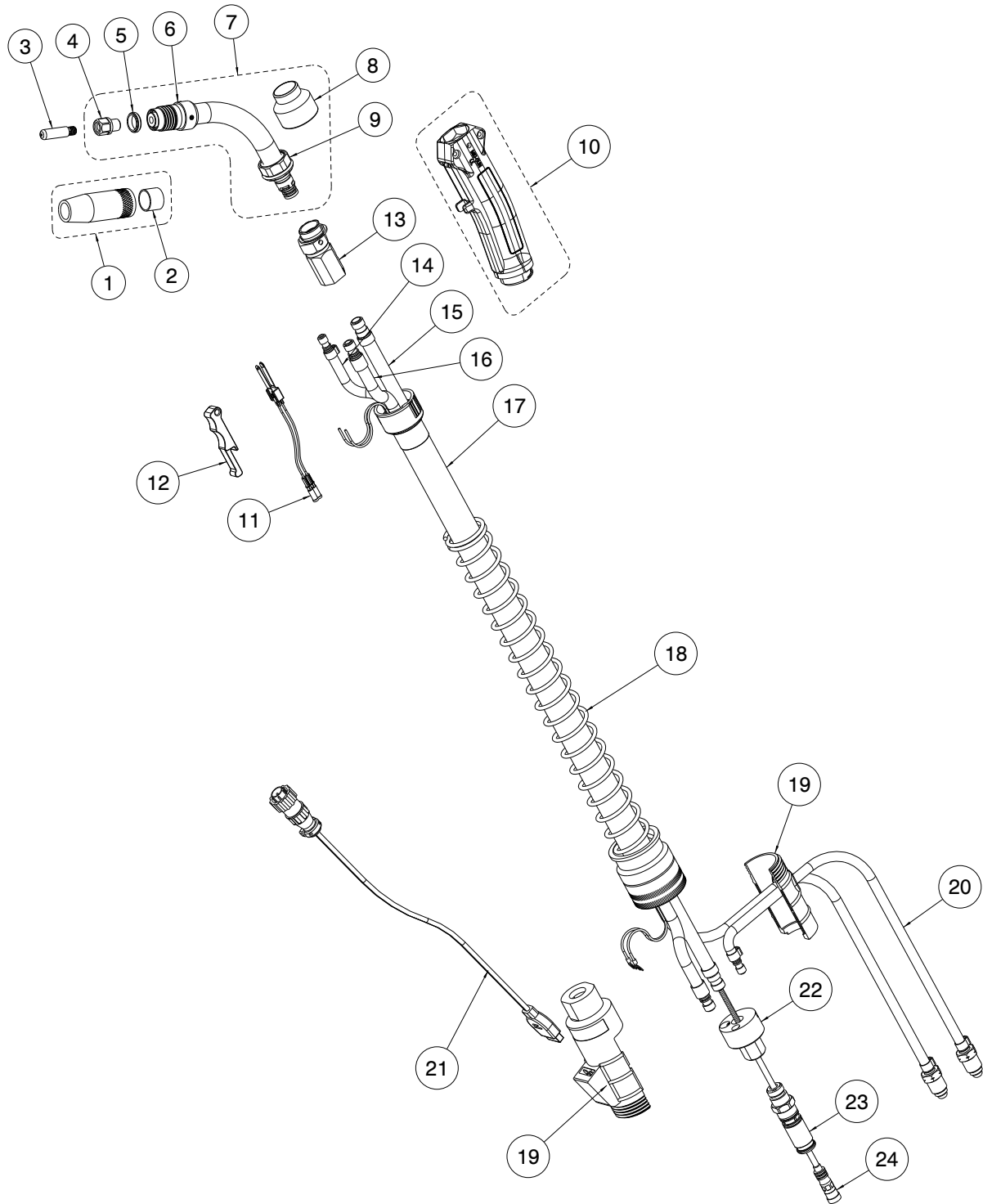
**Conduit Liner** – 45 Series



Refer to pages 88-103 for more complete detail on front end options. Refer to pages 84-85 for parts breakdown information.

# MIG Welding Products & Accessories

## Standard Water-Cooled Replacement Parts



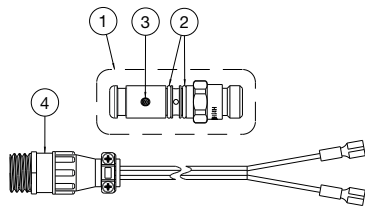
**STANDARD WATER-COOLED 600 AMP MIG GUN REPLACEMENT PARTS LIST**

| #  | DESCRIPTION                | PART NO./STOCK NO.     | #  | DESCRIPTION                          | PART NO./STOCK NO.     |
|----|----------------------------|------------------------|----|--------------------------------------|------------------------|
| 1  | Nozzles                    | Refer to Pages 93-101  | 15 | Gas Hose, 15 ft (5 m)                | WC615-GH<br>1764-2123  |
| 2  | Spatter Shield             | WC26-1<br>1264-1009    |    | Power Cable, 10 ft (3 m)             | WC610-PC<br>1764-2111  |
| 3  | Contact Tips               | Refer to Pages 90-92   |    | Power Cable, 12 ft (4 m)             | WC612-PC<br>1764-2112  |
| 4  | Diffusers                  | Refer to Pages 102-103 | 16 | Power Cable, 15 ft (5 m)             | WC615-PC<br>1764-2113  |
| 5  | Pressure Ring Insulator    | WC36-R<br>2064-1036    |    | Complete Cable Assembly, 10 ft (3 m) | WC600-10<br>1764-2101  |
| 6  | Conductor Tube Housing     | WCS36-H<br>1344-1145   |    | Complete Cable Assembly, 12 ft (4 m) | WC600-12<br>1764-2102  |
| 7  | Conductor Tube             | Refer to Pages 104-107 | 17 | Complete Cable Assembly, 15 ft (5 m) | WC600-15<br>1764-2103  |
| 8  | Nut Cover Insulation       | WC86-HC<br>2064-2086   | 18 | Rear Strain Relief Spring            | QR-SPHD<br>3045-1178   |
| 9  | Locking Nut                | WC66-N<br>2064-2067    | 19 | Rear Case                            | W6RC<br>2064-2600      |
| 10 | Handle Assembly            | W6R-H<br>2064-2031     | 20 | Water Hose Out                       | WC603-WH<br>1764-2130  |
| 11 | Trigger Blade Assembly     | EL96-B<br>2060-2606    |    | Control Wire (Tweco®)                | MAK-354<br>2642-2460   |
| 12 | Trigger                    | EL96<br>2060-2605      |    | Control Wire (Miller®)               | MSAK-354<br>2642-2470  |
| 13 | Front Connector Block      | WC106<br>2064-2106     |    | Control Wire (Lincoln®)              | LAK-354<br>2642-2450   |
| 14 | Water Hose IN, 10 ft (3 m) | WC610-WH<br>1764-2131  | 21 | Rear Connector Block (Direct Plug)   | WC6-170H<br>2064-2171  |
|    | Water Hose IN, 12 ft (4 m) | WC612-WH<br>1764-2132  |    | Rear Connector Block (Euro Plug)     | WC174X-B<br>2044-2182  |
|    | Water Hose IN, 15 ft (5 m) | WC615-WH<br>1764-2133  | 22 | Connector Plug                       | Refer to Page 86       |
| 15 | Gas Hose, 10 ft (3 m)      | WC610-GH<br>1764-2121  | 23 | Conduit                              | Refer to Pages 108-109 |
|    | Gas Hose, 12 ft (4 m)      | WC612-GH<br>1764-2122  | 24 |                                      |                        |

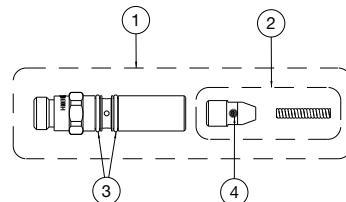
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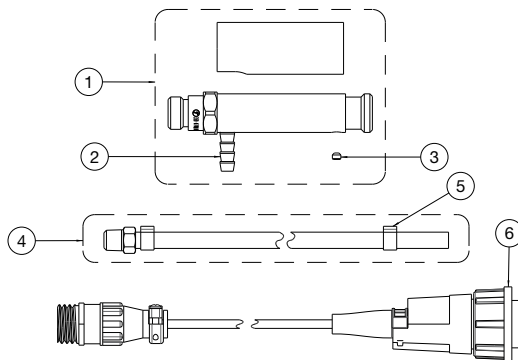
## Tweco® MIG Gun Direct Plug & Control Wire Jumpers



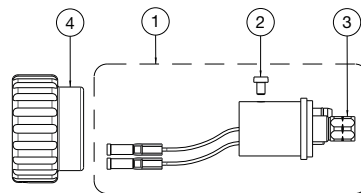
| TWECO STYLE |                                     | 100 - 450A                                    | 500 - 600A                |
|-------------|-------------------------------------|-----------------------------------------------|---------------------------|
| #           | DESCRIPTION                         | Part No.<br>Stock No.                         | Part No.<br>Stock No.     |
| 1           | Connector Plug                      | <b>350-174H</b><br>2035-2110                  | <b>176SH</b><br>2060-2177 |
|             | Connector Plug (Extra Long)         | <b>350-174HXL</b><br>2035-2116                | N/A                       |
| 2           | O-Ring Only<br>(Package of 10)      | <b>224S</b><br>2064-2059                      | <b>225S</b><br>2050-2226  |
| 3           | Set Screw Only<br>(Package of 10)   | <b>44CS</b><br>2040-2046                      |                           |
| 4           | Thermal Arc® Control<br>Jumper Cord | <b>MS-354-TAJ</b><br>2060-2139                |                           |
| NS          | Additional Adapter Kits             | See Adapter Kit Catalog -<br>Form No. TAKL-97 |                           |



| MILLER® STYLE |                                   | 100 - 450A                      | 500 - 600A                  |
|---------------|-----------------------------------|---------------------------------|-----------------------------|
| #             | DESCRIPTION                       | Part No.<br>Stock No.           | Part No.<br>Stock No.       |
| 1             | Connector Plug                    | <b>350-174MH</b><br>2035-2111   | <b>EL176MH</b><br>2060-2178 |
|               | Connector Plug (Extra Long)       | <b>350-174MHXL</b><br>2035-2114 | N/A                         |
| 2             | Wire Guide Assembly Only          | <b>174M-N</b><br>2040-2184      | <b>175M-N</b><br>2050-2178  |
| 3             | O-Ring Only<br>(Package of 10)    | <b>224S</b><br>2064-2059        |                             |
| 4             | Set Screw Only<br>(Package of 10) | <b>44CS</b><br>2040-2046        |                             |



| LINCOLN® STYLE |                                   | 100 - 450A                     | 500 - 600A                  |
|----------------|-----------------------------------|--------------------------------|-----------------------------|
| #              | DESCRIPTION                       | Part No.<br>Stock No.          | Part No.<br>Stock No.       |
| 1              | Connector Plug                    | <b>350-174LH</b><br>2035-2112  | <b>EL176LH</b><br>2060-2680 |
| 2              | Gas Nipple                        | <b>35-170-5</b><br>2000-2175   |                             |
| 3              | Set Screw Only<br>(Package of 10) | <b>44CS</b><br>2040-2046       |                             |
| 4              | Gas Hose With Clamp               | <b>AK353</b><br>2642-2300      |                             |
| 5              | Gas Hose Clamp Only               | <b>AK-353-2A</b><br>2642-2302  |                             |
| 6              | Lincoln Control Jumper Cord       | <b>MS354DS-LJ</b><br>2060-2137 |                             |



| EURO-KWIK STYLE |                                           | 100 - 450A                   | 500 - 600A            |
|-----------------|-------------------------------------------|------------------------------|-----------------------|
| #               | DESCRIPTION                               | Part No.<br>Stock No.        | Part No.<br>Stock No. |
| 1               | Euro-Kwik Body Assembly                   | <b>174EX-1</b><br>2040-2276  |                       |
|                 | Euro-Kwik Body Assembly<br>(Water-Cooled) | <b>WC174X</b><br>2044-2181   |                       |
| 2               | Screw Only                                | <b>4-MS</b><br>2011-2004     |                       |
| 3               | Euro-Kwik Conduit Cap Only                | <b>174EX-1C</b><br>2040-2279 |                       |
| 4               | Euro-Kwik Nut                             | <b>174X-2</b><br>2040-2177   |                       |

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# MIG Welding Products & Accessories

There's only one thing as good  
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Another  
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SPRAY MASTER 350A



No. 4 MIG GUN



True professionals know that nothing can replace a Tweco® MIG gun. For decades, welding operators around the world have felt the pride of owning one of the most trusted brands in the industry. With a rich history of producing top quality professional guns like the Spray Master® and one of the most popular MIG guns of all time – the No. 4 MIG, it's easy to see why the Tweco name has become synonymous with dependability and reliability. Nothing compares to the genuine craftsmanship of a Tweco gun.

**Tweco**  
Professional

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## MIG WELDING CONSUMABLES



### FEATURES

Tweco® offers a wide range of front end consumables to choose from to fit your welding application needs

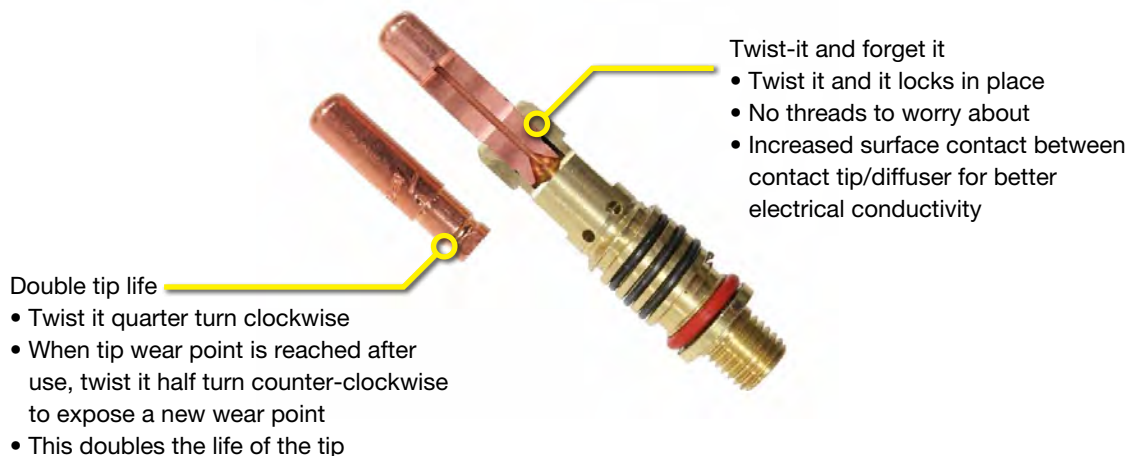
- Slip-On or Thread-On nozzle styles with a choice of diameter bore sizes
- Gas diffusers designed for specific MIG gun series
- Contact tips in either threaded and/or twist lock Eliminator® style contact tips for Eliminator style gas diffuser
- Contact tips manufactured from extruded or gun-drilled copper alloy

Conduit liners made from either zinc-plated music wire with and without nylon coated wall or Teflon tubing— all having it's benefits when running the various welding wire material

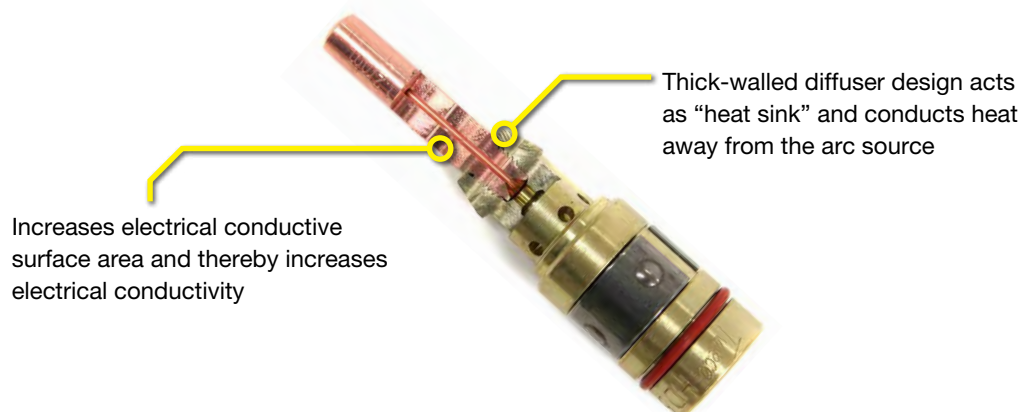
**TRUST** Tweco to supply front end consumables for your MIG gun.  
With over 40 plus years of experience delivering dependable and durable MIG welding consumables for light to heavy metal fabrication.

## ENHANCED DESIGN OF FRONT-END CONSUMABLES

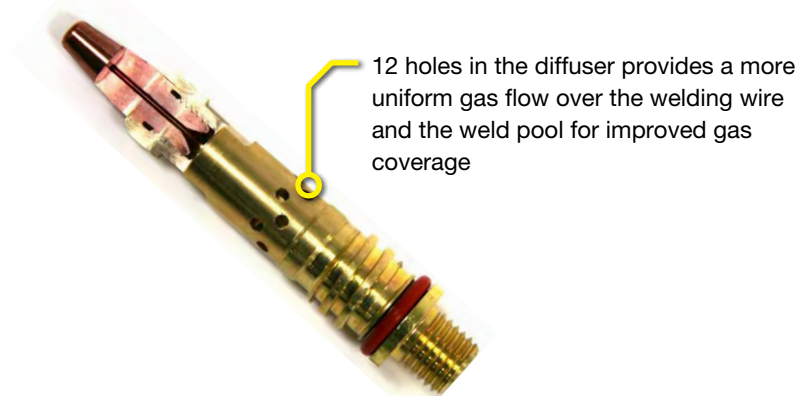
Increase productivity with Eliminator® contact tip



## Heavy-Duty HD Tip and Diffuser



## Improve gas coverage with enhanced diffuser design







11 Series



14T Series



15H Series

## STANDARD THREADED STYLE CONTACT TIPS

|                                                                                                      |                    | Standard        |           | Heavy-Duty       |           | Tapered         |           |
|------------------------------------------------------------------------------------------------------|--------------------|-----------------|-----------|------------------|-----------|-----------------|-----------|
| Wire Size (in / mm)                                                                                  | Tip I.D. (in / mm) | Part No.        | Stock No. | Part No.         | Stock No. | Part No.        | Stock No. |
| <b>11, 11H, &amp; 11T SERIES 0.25" (6.35 mm) O.D. - M6 X 1.0 THREADS - 1.00" (25.4 mm) O.A.L.</b>    |                    |                 |           |                  |           |                 |           |
| .023" (0.6 mm)                                                                                       | .031" (0.79 mm)    | <b>11-23</b>    | 1110-1100 |                  |           | <b>11T-23</b>   | 1110-1300 |
| .030" (0.8 mm)                                                                                       | .038" (0.97 mm)    | <b>11-30</b>    | 1110-1101 | <b>11H-30</b>    | 1110-1201 | <b>11T-30</b>   | 1110-1301 |
| .035" (0.9 mm)                                                                                       | .044" (1.12 mm)    | <b>11-35</b>    | 1110-1102 | <b>11H-35</b>    | 1110-1202 | <b>11T-35</b>   | 1110-1302 |
| .040" (1.0 mm)                                                                                       | .048" (1.22 mm)    | <b>11-40</b>    | 1110-1103 | <b>11H-40</b>    | 1110-1203 |                 |           |
| .045" (1.2 mm)                                                                                       | .054" (1.37 mm)    | <b>11-45</b>    | 1110-1104 | <b>11H-45</b>    | 1110-1204 | <b>11T-45</b>   | 1110-1304 |
| 3/64" AL (1.2 mm)                                                                                    | .059" (1.50 mm)    |                 |           | <b>11AH-364</b>  | 1110-1213 |                 |           |
| <b>14, 14H, &amp; 14T SERIES 0.25" (6.35 mm) O.D. - .250-28 UNF THREADS - 1.50" (38.1 mm) O.A.L.</b> |                    |                 |           |                  |           |                 |           |
| .023" (0.6 mm)                                                                                       | .031" (0.79 mm)    | <b>14-23</b>    | 1140-1100 |                  |           | <b>14T-23</b>   | 1140-1300 |
| .030" (0.8 mm)                                                                                       | .038" (0.97 mm)    | <b>14-30</b>    | 1140-1101 |                  |           | <b>14T-30</b>   | 1140-1301 |
| .035" (0.9 mm)                                                                                       | .044" (1.12 mm)    | <b>14-35</b>    | 1140-1102 | <b>14H-35</b>    | 1140-1202 | <b>14T-35</b>   | 1140-1302 |
| .040" (1.0 mm)                                                                                       | .048" (1.22 mm)    | <b>14-40</b>    | 1140-1103 | <b>14H-40</b>    | 1140-1203 |                 |           |
| .045" (1.2 mm)                                                                                       | .054" (1.37 mm)    | <b>14-45</b>    | 1140-1104 | <b>14H-45</b>    | 1140-1204 | <b>14T-45</b>   | 1140-1304 |
| .052" (1.3 mm)                                                                                       | .064" (1.65 mm)    | <b>14-52</b>    | 1140-1105 | <b>14H-52</b>    | 1140-1205 | <b>14T-52</b>   | 1140-1305 |
| 1/16" (1.6 mm)                                                                                       | .073" (1.85 mm)    | <b>14-116</b>   | 1140-1106 | <b>14H-116</b>   | 1140-1206 | <b>14T-116</b>  | 1140-1306 |
| 5/64" (2.0 mm)                                                                                       | .090" (2.29 mm)    | <b>14-564</b>   | 1140-1109 | <b>14H-564</b>   | 1140-1209 |                 |           |
| 3/64" AL (1.2 mm)                                                                                    | .059" (1.50 mm)    | <b>14A364</b>   | 1140-1113 | <b>14AH-364</b>  | 1140-1213 |                 |           |
| 1/16" AL (1.6 mm)                                                                                    | .082" (2.08 mm)    |                 |           | <b>14AH-116</b>  | 1140-1214 |                 |           |
| <b>15H &amp; 15HFC SERIES 0.345" (8.8 mm) O.D. - .3125-24 UNF THREADS</b>                            |                    |                 |           |                  |           |                 |           |
| <b>15H &amp; 15AH SERIES - 1.970" O.A.L.; 15HFC - 1.590" O.A.L.</b>                                  |                    |                 |           |                  |           |                 |           |
| .035" (0.9 mm)                                                                                       | .044" (1.12 mm)    | <b>15H-35</b>   | 1150-1202 |                  |           |                 |           |
| .045" (1.2 mm)                                                                                       | .054" (1.37 mm)    | <b>15H-45</b>   | 1150-1204 | <b>15HFC-45</b>  | 1150-1254 |                 |           |
| .052" (1.3 mm)                                                                                       | .064" (1.65 mm)    | <b>15H-52</b>   | 1150-1205 | <b>15HFC-52</b>  | 1150-1255 |                 |           |
| 1/16" (1.6 mm)                                                                                       | .073" (1.85 mm)    | <b>15H-116</b>  | 1150-1206 | <b>15HFC-116</b> | 1150-1256 |                 |           |
| 5/64" (2.0 mm)                                                                                       | .090" (2.29 mm)    | <b>15H-564</b>  | 1150-1209 | <b>15HFC-564</b> | 1150-1259 |                 |           |
| 3/32" (2.4 mm)                                                                                       | .106" (2.67 mm)    | <b>15H-332</b>  | 1150-1210 | <b>15HFC-332</b> | 1150-1260 |                 |           |
| 7/64" (2.8 mm)                                                                                       | .120" (3.05 mm)    | <b>15H-764</b>  | 1150-1211 | <b>15HFC-764</b> | 1150-1261 |                 |           |
| 1/8" (3.2 mm)                                                                                        | .144" (3.66 mm)    | <b>15H-18</b>   | 1150-1212 | <b>15HFC-18</b>  | 1150-1262 |                 |           |
| 3/64" AL (1.2 mm)                                                                                    | .059" (1.50 mm)    | <b>15AH-364</b> | 1150-1213 |                  |           |                 |           |
| 1/16" AL (1.6 mm)                                                                                    | .082" (2.08 mm)    | <b>15AH-116</b> | 1150-1214 |                  |           |                 |           |
| <b>16S &amp; 16ST SERIES 0.375" (9.5 mm) O.D. - M8 X 1.25 THREADS - 1.50" (38.1 mm) O.A.L.</b>       |                    |                 |           |                  |           |                 |           |
| .035" (0.9 mm)                                                                                       | .044" (1.12 mm)    | <b>16S-35</b>   | 1160-1102 |                  |           | <b>16ST-35</b>  | 1160-1135 |
| .040" (1.0 mm)                                                                                       | .048" (1.22 mm)    | <b>16S-40</b>   | 1160-1103 |                  |           |                 |           |
| .045" (1.2 mm)                                                                                       | .054" (1.37 mm)    | <b>16S-45</b>   | 1160-1104 |                  |           | <b>16ST-45</b>  | 1160-1137 |
| .052" (1.3 mm)                                                                                       | .064" (1.65 mm)    | <b>16S-52</b>   | 1160-1105 |                  |           | <b>16ST-52</b>  | 1160-1138 |
| 1/16" (1.6 mm)                                                                                       | .073" (1.85 mm)    | <b>16S-116</b>  | 1160-1106 |                  |           | <b>16ST-116</b> | 1160-1139 |
| 5/64" (2.0 mm)                                                                                       | .090" (2.29 mm)    | <b>16S-564</b>  | 1160-1109 |                  |           |                 |           |
| 3/32" (2.4 mm)                                                                                       | .106" (2.67 mm)    | <b>16S-332</b>  | 1160-1110 |                  |           |                 |           |
| 7/64" (2.8 mm)                                                                                       | .120" (3.05 mm)    | <b>16S-764</b>  | 1160-1111 |                  |           |                 |           |
| 3/64" AL (1.2 mm)                                                                                    | .059" (1.50 mm)    | <b>16AS-364</b> | 1160-1113 |                  |           |                 |           |
| 1/16" AL (1.6 mm)                                                                                    | .082" (2.08 mm)    | <b>16AS-116</b> | 1160-1114 |                  |           |                 |           |



15HFC Series



16S Series



11RZ Series



14RZ Series



16RZT Series

## LONG LIFE THREADED STYLE CONTACT TIPS

|                                                                                                    |                    | Standard       |           | Tapered         |           |
|----------------------------------------------------------------------------------------------------|--------------------|----------------|-----------|-----------------|-----------|
| Wire Size (in / mm)                                                                                | Tip I.D. (in / mm) | Part No.       | Stock No. | Part No.        | Stock No. |
| <b>11RZ SERIES</b> 0.25" (6.35 mm) O.D. - M6 X 1.0 THREADS - 1.00" (25.4 mm) O.A.L.                |                    |                |           |                 |           |
| .035" (0.9 mm)                                                                                     | .041" (1.04 mm)    | <b>11RZ-35</b> | 1110-1220 |                 |           |
| <b>14RZ &amp; 14RZT SERIES</b> 0.25" (6.35 mm) O.D. - .250-28 UNF THREADS - 1.50" (38.1 mm) O.A.L. |                    |                |           |                 |           |
| .035" (0.9 mm)                                                                                     | .041" (1.04 mm)    | <b>14RZ-35</b> | 1140-1430 | <b>14RZT-35</b> | 1140-1440 |
| .045" (1.2 mm)                                                                                     | .051" (1.30 mm)    | <b>14RZ-45</b> | 1140-1432 | <b>14RZT-45</b> | 1140-1442 |
| .052" (1.3 mm)                                                                                     | .058" (1.47 mm)    | <b>14RZ-52</b> | 1140-1433 | <b>14RZT-52</b> | 1140-1443 |
| <b>16RZ &amp; 16RZT SERIES</b> 0.312" (7.9 mm) O.D. - M8 X 1.25 THREADS - 1.50" (38.1 mm) O.A.L.   |                    |                |           |                 |           |
| .035" (0.9 mm)                                                                                     | .041" (1.04 mm)    | <b>16RZ-35</b> | 1160-1180 | <b>16RZT-35</b> | 1160-1190 |
| .045" (1.2 mm)                                                                                     | .051" (1.30 mm)    | <b>16RZ-45</b> | 1160-1182 | <b>16RZT-45</b> | 1160-1192 |
| .052" (1.3 mm)                                                                                     | .058" (1.47 mm)    | <b>16RZ-52</b> | 1160-1183 | <b>16RZT-52</b> | 1160-1193 |



16PS Series

## LONG LIFE PULSEMASTER™ STYLE THREADED STYLE CONTACT TIPS

|                                                                                     |                    | Standard         |           |
|-------------------------------------------------------------------------------------|--------------------|------------------|-----------|
| Wire Size (in / mm)                                                                 | Tip I.D. (in / mm) | Part No.         | Stock No. |
| <b>16PS SERIES</b> 0.375" (9.5 mm) O.D. - M8 X 1.25 THREADS - 1.181" (30 mm) O.A.L. |                    |                  |           |
| .030" (0.8 mm)                                                                      | .038" (0.9 mm)     | <b>16PS-30</b>   | 1160-1543 |
| .035" (0.9 mm)                                                                      | .041" (1.04 mm)    | <b>16PS-35</b>   | 1160-1535 |
| .045" (1.2 mm)                                                                      | .051" (1.30 mm)    | <b>16PS-45</b>   | 1160-1537 |
| .047" (1.2 mm)                                                                      | .064" (1.63 mm)    | <b>16APS-364</b> | 1160-1538 |
| .052" (1.3 mm)                                                                      | .058" (1.50 mm)    | <b>16PS-52</b>   | 1160-1541 |

Note: Gas Diffuser – Part No. PMA54-16S (Stock No. 1543-1106) or PMW55-16 (Stock No. 1550-1105) must be used with the 16PS series contact tips to maintain standard nozzle/contact tip relationship.





EL16 Series



EL16T Series

## ELIMINATOR® STYLE CONTACT TIPS

|                                                                               |                    | Standard         |           | Tapered           |           |
|-------------------------------------------------------------------------------|--------------------|------------------|-----------|-------------------|-----------|
| Wire Size (in / mm)                                                           | Tip I.D. (in / mm) | Part No.         | Stock No. | Part No.          | Stock No. |
| <b>EL16 &amp; EL16T SERIES 0.345" (6.35 mm) O.D. - 1.50" (38.1 mm) O.A.L.</b> |                    |                  |           |                   |           |
| .030" (0.8 mm)                                                                | .038" (0.97 mm)    | <b>EL16-30</b>   | 1160-1610 | <b>EL16T-30</b>   | 1160-1601 |
| .035" (0.9 mm)                                                                | .044" (1.12 mm)    | <b>EL16-35</b>   | 1160-1611 | <b>EL16T-35</b>   | 1160-1602 |
| .040" (1.0 mm)                                                                | .048" (1.22 mm)    | <b>EL16-40</b>   | 1160-1612 | <b>EL16T-40</b>   | 1160-1603 |
| .045" (1.2 mm)                                                                | .054" (1.37 mm)    | <b>EL16-45</b>   | 1160-1613 | <b>EL16T-45</b>   | 1160-1604 |
| .052" (1.3 mm)                                                                | .064" (1.65 mm)    | <b>EL16-52</b>   | 1160-1615 | <b>EL16T-52</b>   | 1160-1605 |
| 1/16" (1.6 mm)                                                                | .073" (1.85 mm)    | <b>EL16-116</b>  | 1160-1616 | <b>EL16T-116</b>  | 1160-1606 |
| 5/64" (2.0 mm)                                                                | .090" (2.29 mm)    | <b>EL16-564</b>  | 1160-1618 |                   |           |
| 3/32" (2.4 mm)                                                                | .106" (2.67 mm)    | <b>EL16-332</b>  | 1160-1619 |                   |           |
| 3/64" AL (1.2 mm)                                                             | .059" (1.50 mm)    | <b>EL16A-364</b> | 1160-1614 | <b>EL16AT-364</b> | 1160-1607 |



EL16RZ Series



EL16RZT Series

## LONG LIFE ELIMINATOR STYLE CONTACT TIPS

|                                                                                  |                    | Standard         |           | Tapered           |           |
|----------------------------------------------------------------------------------|--------------------|------------------|-----------|-------------------|-----------|
| Wire Size (in / mm)                                                              | Tip I.D. (in / mm) | Part No.         | Stock No. | Part No.          | Stock No. |
| <b>EL16RZ &amp; EL16RZT SERIES 0.375" (9.5 mm) O.D. - 1.50" (38.1 mm) O.A.L.</b> |                    |                  |           |                   |           |
| .035" (0.9 mm)                                                                   | .041" (1.04 mm)    |                  |           | <b>EL16RZT-35</b> | 1160-1705 |
| .045" (1.2 mm)                                                                   | .051" (1.30 mm)    | <b>EL16RZ-45</b> | 1160-1732 | <b>EL16RZT-45</b> | 1160-1707 |
| .052" (1.3 mm)                                                                   | .058" (1.47 mm)    | <b>EL16RZ-52</b> | 1160-1733 | <b>EL16RZT-52</b> | 1160-1708 |



## MIG GUN NOZZLE TO TIP RELATIONSHIP: IT'S MORE THAN JUST WELDER'S PREFERENCE

Selecting the right nozzle for a welder's preferred 'nozzle to tip relationship' on a MIG gun is generally based on the application and the welder's daily welding routine.

**Recessed Tips** are generally used for higher heat applications where longer electrical stick-out is required, or in cases where the nozzle may touch the work piece (tack, spot, and stitch).



Recessed Tip

**Flush Tips** are generally used where a shorter electrical stick-out is used sometimes resulting in shorter/tighter arc lengths. This brings the tip closer to the work piece.



Flush Tip

**Protruding Tips** are generally used when welding open root pipe or any joint that requires the welder to get into a tight weld joint. However the down side to this is the chance of arcing the tip to the work piece, which could damage front end parts resulting in downtime needed to replace.



Protruding Tip



21 Series



REL 21 Series



22 Series



HD22 Series

## AIR-COOLED STANDARD & HEAVY-DUTY NOZZLES & NOZZLE INSULATORS

| Nozzle Style                                                            | Bore Diameter<br>(in / mm) | Part No.  | Stock No. | Nozzle Design           | Nozzle/Contact Tip Relationship            |
|-------------------------------------------------------------------------|----------------------------|-----------|-----------|-------------------------|--------------------------------------------|
| 21 SERIES 3-PIECE NOZZLE DESIGN - 0.750" (19.05 mm) OUTSIDE DIAMETER    |                            |           |           |                         |                                            |
| Thread-On                                                               | 3/8" (9.5 mm)              | 21-37F    | 1210-1102 | Standard (1)            | Flush To 1/16" (1.6 mm) Tip Recess         |
|                                                                         | 3/8" (9.5 mm)              | 21-37     | 1210-1100 | Standard (1)            | 1/8" - 5/32" (3.2 mm - 3.97 mm) Tip Recess |
|                                                                         | 3/8" (9.5 mm)              | 21T-37    | 1210-1300 | Tapered (1)             | 1/8" - 5/32" (3.2 mm - 3.97 mm) Tip Recess |
|                                                                         | 3/8" (9.5 mm)              | 21T-37F   | 1210-1302 | Tapered (1)             | Flush To 1/16" (1.6 mm) Tip Recess         |
|                                                                         | 1/2" (12.7 mm)             | 21-50F    | 1210-1112 | Standard (1)            | Flush To 1/16" (1.6 mm) Tip Recess         |
|                                                                         | 1/2" (12.7 mm)             | 21-50     | 1210-1110 | Standard (1)            | 1/8" - 5/32" (3.2 mm - 3.97 mm) Tip Recess |
|                                                                         | 5/8" (15.9 mm)             | 21-62     | 1210-1120 | Standard (1)            | 1/8" - 5/32" (3.2 mm - 3.97 mm) Tip Recess |
| REL 21 SERIES 3-PIECE NOZZLE DESIGN - 0.875" (22.2 mm) OUTSIDE DIAMETER |                            |           |           |                         |                                            |
| Slip-On (B)                                                             | 1/2" (12.7 mm)             | REL21-50F | 1210-1316 | Straight                | Flush To 1/16" (1.6 mm) Tip Recess         |
|                                                                         | 1/2" (12.7 mm)             | REL21-50P | 1210-1321 | Straight                | 5/32" (3.97 mm) Tip Protruding             |
| 22 SERIES FORMED NOZZLE - 0.750" (19.05 mm) OUTSIDE DIAMETER            |                            |           |           |                         |                                            |
| Slip-On (A)                                                             | 3/8" (9.5 mm)              | 22-37SS   | 1220-1101 | Standard Short Stop (3) | Adjustable<br>Recess To Protruding         |
|                                                                         | 3/8" (9.5 mm)              | 22T-37SS  | 1220-1301 | Standard Short Stop (3) |                                            |
|                                                                         | 1/2" (12.7 mm)             | 22-50     | 1220-1110 | Standard                |                                            |
|                                                                         | 1/2" (12.7 mm)             | 22-50SS   | 1220-1111 | Standard Short Stop (3) |                                            |
|                                                                         | 5/8" (15.9 mm)             | 22-62     | 1220-1120 | Standard                |                                            |
|                                                                         | 5/8" (15.9 mm)             | 22-62SS   | 1220-1121 | Standard Short Stop (3) |                                            |
| HD22 SERIES 3-PIECE NOZZLE DESIGN - 0.875" (22.2 mm) OUTSIDE DIAMETER   |                            |           |           |                         |                                            |
| Slip-On (B)                                                             | 3/8" (9.5 mm)              | HD22-37   | 1220-1305 | Standard (1)            | 1/8" - 5/32" (3.2 mm - 3.97 mm) Tip Recess |
|                                                                         | 1/2" (12.7 mm)             | HD22-50   | 1220-1306 | Standard (1)            | 1/8" - 5/32" (3.2 mm - 3.97 mm) Tip Recess |
|                                                                         | 1/2" (12.7 mm)             | HD22-50F  | 1220-1311 | Standard (1)            | Flush To 1/16" (1.6 mm) Tip Recess         |
|                                                                         | 5/8" (15.9 mm)             | HD22-62   | 1220-1307 | Standard (1)            | 1/8" - 5/32" (3.2 mm - 3.97 mm) Tip Recess |
|                                                                         | 5/8" (15.9 mm)             | HD22-62F  | 1220-1312 | Standard (1)            | Flush To 1/16" (1.6 mm) Tip Recess         |

Note: (A) - Use with Nozzle Insulator Part No. 32 (Stock No. 1320-1100)  
 (B) - Use with HD52 Series Gas Diffusers  
 (1) - Self Insulated Nozzles  
 (3) - Flush to 1/8" (3.2 mm) Tip Recess



32



23 Series



23T Series



23H Series

**AIR-COOLED STANDARD & HEAVY-DUTY NOZZLES & NOZZLE INSULATORS**

| Nozzle Style                                                               | Bore Diameter (in / mm) | Part No.       | Stock No. | Nozzle Design     | Nozzle/Contact Tip Relationship            |
|----------------------------------------------------------------------------|-------------------------|----------------|-----------|-------------------|--------------------------------------------|
| <b>23 SERIES 3-PIECE NOZZLE DESIGN - 0.875" (22.2 mm) OUTSIDE DIAMETER</b> |                         |                |           |                   |                                            |
| Thread-On                                                                  | 3/8" (9.5 mm)           | <b>23-37</b>   | 1230-1100 | <b>Standard</b>   | 1/8" - 5/32" (3.2 mm - 3.97 mm) Tip Recess |
|                                                                            | 3/8" (9.5 mm)           | <b>23T-37</b>  | 1230-1300 | <b>Tapered</b>    | 1/8" - 5/32" (3.2 mm - 3.97 mm) Tip Recess |
|                                                                            | 3/8" (9.5 mm)           | <b>23T-37F</b> | 1230-1302 | <b>Tapered</b>    | Flush To 1/16" (1.6 mm) Tip Recess         |
|                                                                            | 1/2" (12.7 mm)          | <b>23-50</b>   | 1230-1110 | <b>Standard</b>   | 1/8" - 5/32" (3.2 mm - 3.97 mm) Tip Recess |
|                                                                            | 1/2" (12.7 mm)          | <b>23-50F</b>  | 1230-1112 | <b>Standard</b>   | Flush To 1/16" (1.6 mm) Tip Recess         |
|                                                                            | 1/2" (12.7 mm)          | <b>23H-50</b>  | 1230-1210 | <b>Heavy-Duty</b> | 1/8" - 5/32" (3.2 mm - 3.97 mm) Tip Recess |
|                                                                            | 5/8" (15.9 mm)          | <b>23-62</b>   | 1230-1120 | <b>Standard</b>   | 1/8" - 5/32" (3.2 mm - 3.97 mm) Tip Recess |
|                                                                            | 5/8" (15.9 mm)          | <b>23-62F</b>  | 1230-1122 | <b>Standard</b>   | Flush To 1/16" (1.6 mm) Tip Recess         |
|                                                                            | 5/8" (15.9 mm)          | <b>23H-62</b>  | 1230-1220 | <b>Heavy-Duty</b> | 1/8" - 5/32" (3.2 mm - 3.97 mm) Tip Recess |
|                                                                            | 5/8" (15.9 mm)          | <b>23H-62F</b> | 1230-1222 | <b>Heavy-Duty</b> | Flush To 1/16" (1.6 mm) Tip Recess         |
|                                                                            | 5/8" (15.9 mm)          | <b>23-75</b>   | 1230-1130 | <b>Standard</b>   | 1/8" - 5/32" (3.2 mm - 3.97 mm) Tip Recess |
|                                                                            | 3/4" (19.5 mm)          | <b>23-75F</b>  | 1230-1132 | <b>Standard</b>   | 1/8" - 5/32" (3.2 mm - 3.97 mm) Tip Recess |
|                                                                            | 3/4" (19.5 mm)          | <b>23H-75</b>  | 1230-1230 | <b>Heavy-Duty</b> | 1/8" - 5/32" (3.2 mm - 3.97 mm) Tip Recess |

Note: Self Insulated Nozzles

# MIG Welding Consumables



## AIR-COOLED STANDARD & HEAVY-DUTY NOZZLES & NOZZLE INSULATORS

| Nozzle Style                                                         | Bore Diameter<br>(in / mm) | Part No.         | Stock No. | Nozzle Design                  | Nozzle/Contact Tip Relationship        |
|----------------------------------------------------------------------|----------------------------|------------------|-----------|--------------------------------|----------------------------------------|
| <b>24A SERIES FORMED NOZZLE - 0.750" (19.05 mm) OUTSIDE DIAMETER</b> |                            |                  |           |                                |                                        |
| Slip-On (A)                                                          | 3/8" (9.5 mm)              | <b>24A-37SS</b>  | 1240-1101 | <b>Standard Short Stop (1)</b> | 1/8" (3.2 mm) Tip Recess               |
|                                                                      | 3/8" (9.5 mm)              | <b>24AT-37SS</b> | 1240-1301 | <b>Standard Short Stop (1)</b> | 1/8" (3.2 mm) Tip Recess               |
|                                                                      | 1/2" (12.7 mm)             | <b>24A-50</b>    | 1240-1110 | <b>Standard</b>                | Adjustable Tip Recess - Tip Protruding |
|                                                                      | 1/2" (12.7 mm)             | <b>24A-50SS</b>  | 1240-1111 | <b>Standard Short Stop (1)</b> | 1/8" (3.2 mm) Tip Recess               |
|                                                                      | 5/8" (15.9 mm)             | <b>24A-62</b>    | 1240-1120 | <b>Standard</b>                | Adjustable Tip Recess - Tip Protruding |
|                                                                      | 5/8" (15.9 mm)             | <b>24A-62SS</b>  | 1240-1121 | <b>Standard Short Stop (1)</b> | 1/8" (3.2 mm) Tip Recess               |
|                                                                      | 5/8" (15.9 mm)             | <b>24AH-62</b>   | 1240-1220 | <b>Standard Heavy-Duty</b>     | Adjustable Tip Recess - Tip Protruding |
|                                                                      | 5/8" (15.9 mm)             | <b>24AH-62SS</b> | 1240-1221 | <b>Standard Short Stop (1)</b> | 1/8" (3.2 mm) Tip Recess               |
|                                                                      | 3/4" (19.5 mm)             | <b>24A-75</b>    | 1240-1130 | <b>Standard</b>                | Adjustable Tip Recess - Tip Protruding |
|                                                                      | 3/4" (19.5 mm)             | <b>24AH-75</b>   | 1240-1230 | <b>Standard Heavy-Duty</b>     | Adjustable Tip Recess - Tip Protruding |
|                                                                      | 3/4" (19.5 mm)             | <b>24AH-75SS</b> | 1240-1231 | <b>Standard Short Stop (1)</b> | 1/8" (3.2 mm) Tip Recess               |
| <b>24CT SERIES COURSE THREAD NOZZLE</b>                              |                            |                  |           |                                |                                        |
| Thread-On (B)                                                        | 3/8" (9.5 mm)              | <b>24CT-37S</b>  | 1240-1404 | <b>Standard Short Stop (1)</b> | 5/32" (3.97 mm) Tip Recess             |
|                                                                      | 1/2" (12.7 mm)             | <b>24CT-50S</b>  | 1240-1414 | <b>Standard Short Stop (1)</b> | 5/32" (3.97 mm) Tip Recess             |
|                                                                      | 5/8" (15.9 mm)             | <b>24CT-62S</b>  | 1240-1424 | <b>Standard Short Stop (1)</b> | 5/32" (3.97 mm) Tip Recess             |
|                                                                      | 5/8" (15.9 mm)             | <b>24CT-62F</b>  | 1240-1422 | <b>Tapered</b>                 | 1/16" (1.59 mm) Tip Recess             |
|                                                                      | 5/8" (15.9 mm)             | <b>24CT-62R</b>  | 1240-1423 | <b>Tapered</b>                 | 1/2" (12.7 mm) Tip Recess              |
|                                                                      | 3/4" (19.5 mm)             | <b>24CT-75S</b>  | 1240-1434 | <b>Standard Short Stop (1)</b> | 5/32" (3.97 mm) Tip Recess             |
| <b>24FN SERIES FINE THREAD NOZZLE</b>                                |                            |                  |           |                                |                                        |
| Thread-On (C)                                                        | 3/8" (9.5 mm)              | <b>24FN-37S</b>  | 1240-1704 | <b>Standard Short Stop (1)</b> | 5/32" (3.97 mm) Tip Recess             |
|                                                                      | 5/8" (15.9 mm)             | <b>24FN-62S</b>  | 1240-1724 | <b>Standard Short Stop (1)</b> | 5/32" (3.97 mm) Tip Recess             |
|                                                                      | 5/8" (15.9 mm)             | <b>24FN-62R</b>  | 1240-1723 | <b>Tapered</b>                 | 1/16" (1.59 mm) Tip Recess             |
|                                                                      | 3/4" (19.5 mm)             | <b>24FN-75S</b>  | 1240-1734 | <b>Standard Short Stop (1)</b> | 5/32" (3.97 mm) Tip Recess             |

Note: (A) - Use with Nozzle Insulator Part No. 34A (Stock No. 1340-1100)  
 (B) - Use with Nozzle Insulator Part No. 34CT (Stock No. 1340-1400)  
 (C) - Use with Nozzle Insulator Part No. 34FN (Stock No. 1340-1401)  
 (1) - Flush to 1/8" (3.2 mm) Tip Recess







HD24 Series

## AIR-COOLED HEAVY-DUTY NOZZLES

| Nozzle Style                             | Bore Diameter (in / mm) | Part No.          | Stock No. | Nozzle Design           | Nozzle/Contact Tip Relationship            |
|------------------------------------------|-------------------------|-------------------|-----------|-------------------------|--------------------------------------------|
| <b>HD24 SERIES 3-PIECE NOZZLE DESIGN</b> |                         |                   |           |                         |                                            |
| Slip-On (A)                              | 1/2" (12.7 mm)          | <b>HD24L-50</b>   | 1240-1200 | <b>Tapered (1)</b>      | 1/8" - 5/32" (3.2 mm - 3.97 mm) Tip Recess |
|                                          | 1/2" (12.7 mm)          | <b>HD24-50</b>    | 1240-1240 | <b>Standard (2)</b>     | 1/8" - 5/32" (3.2 mm - 3.97 mm) Tip Recess |
|                                          | 5/8" (15.9 mm)          | <b>HD24L-62</b>   | 1240-1201 | <b>Tapered (1)</b>      | 1/8" - 5/32" (3.2 mm - 3.97 mm) Tip Recess |
|                                          | 5/8" (15.9 mm)          | <b>HD24L-62F</b>  | 1240-1205 | <b>Tapered (1)</b>      | Flush To 1/16" (1.6 mm) Tip Recess         |
|                                          | 5/8" (15.9 mm)          | <b>HD24-62</b>    | 1240-1241 | <b>Standard (2)</b>     | 1/8" - 5/32" (3.2 mm - 3.97 mm) Tip Recess |
|                                          | 5/8" (15.9 mm)          | <b>HD24-62F</b>   | 1240-1236 | <b>Standard (2)</b>     | Flush To 1/16" (1.6 mm) Tip Recess         |
|                                          | 3/4" (19.5 mm)          | <b>HD24L-75</b>   | 1240-1202 | <b>Tapered (1)</b>      | 1/8" - 5/32" (3.2 mm - 3.97 mm) Tip Recess |
|                                          | 3/4" (19.5 mm)          | <b>HD24-75</b>    | 1240-1242 | <b>Standard (2)</b>     | 1/8" - 5/32" (3.2 mm - 3.97 mm) Tip Recess |
|                                          | 3/4" (19.5 mm)          | <b>HD24-75F</b>   | 1240-1237 | <b>Standard (2)</b>     | Flush To 1/16" (1.6 mm) Tip Recess         |
|                                          | 5/8" (15.9 mm)          | <b>HD24LB-62</b>  | 1240-1216 | <b>Standard (1) (3)</b> | 1/8" - 5/32" (3.2 mm - 3.97 mm) Tip Recess |
|                                          | 5/8" (15.9 mm)          | <b>HD24LB-62F</b> | 1240-1219 | <b>Tapered (1) (3)</b>  | Flush To 1/16" (1.6 mm) Tip Recess         |
|                                          | 5/8" (15.9 mm)          | <b>HD26B-62</b>   | 1260-1285 | <b>Standard (2) (3)</b> | 5/32" (3.97 mm) Tip Recess                 |
|                                          | 3/4" (19.5 mm)          | <b>HD26B-75</b>   | 1260-1286 | <b>Standard (2) (3)</b> | 5/32" (3.97 mm) Tip Recess                 |

Note: Self Insulated Nozzles

(A) - Use with HD54 Series Gas Diffusers

(2) - 1.125" (28.58mm) Outside Diameter

(3) - Outer shell made from red brass Alloy 230



PMA24 Series

## PULSEMASTER™ & PULLMASTER™ AIR-COOLED NOZZLES

| Nozzle Style                                                                  | Bore Diameter (in / mm) | Part No.         | Stock No. | Nozzle Design   | Nozzle/Contact Tip Relationship |
|-------------------------------------------------------------------------------|-------------------------|------------------|-----------|-----------------|---------------------------------|
| <b>PMA24 SERIES 3-PIECE NOZZLE DESIGN - 1.000" (25.4 mm) OUTSIDE DIAMETER</b> |                         |                  |           |                 |                                 |
| Thread-On                                                                     | 1/2" (12.7 mm)          | <b>PMA24-50F</b> | 1260-1710 | <b>Straight</b> | Flush To 1/16" (1.6 mm)         |
|                                                                               | 1/2" (12.7 mm)          | <b>PMA24-50</b>  | 1260-1711 | <b>Straight</b> | 0.156" (3.9 mm) Tip Recess      |
|                                                                               | 5/8" (15.9 mm)          | <b>PMA24-62F</b> | 1260-1712 | <b>Straight</b> | Flush to 1/16" (1.6 mm)         |
|                                                                               | 5/8" (15.9 mm)          | <b>PMA24-62</b>  | 1260-1713 | <b>Straight</b> | 0.156" (3.9 mm) Tip Recess      |
|                                                                               | 5/8" (15.9 mm)          | <b>PMA24H-62</b> | 1260-1720 | <b>Straight</b> | 0.156" (3.9 mm) Tip Recess      |
|                                                                               | 3/4" (19.5 mm)          | <b>PMA24-75F</b> | 1260-1714 | <b>Straight</b> | Flush To 1/16" (1.6 mm)         |
|                                                                               | 3/4" (19.5 mm)          | <b>PMA24-75</b>  | 1260-1715 | <b>Straight</b> | 0.156" (3.9 mm) Tip Recess      |
|                                                                               | 3/4" (19.5 mm)          | <b>PMA24H-75</b> | 1260-1721 | <b>Straight</b> | 0.156" (3.9 mm) Tip Recess      |

Note: Nozzles are nickel plated

# MIG Welding Consumables



25CT Series



25I Series



26CT Series



26I Series

## AIR-COOLED STANDARD NOZZLES & NOZZLE INSULATORS

| Nozzle Style                                                                | Bore Diameter (in / mm) | Part No.       | Stock No. | Nozzle Design       | Nozzle/Contact Tip Relationship |
|-----------------------------------------------------------------------------|-------------------------|----------------|-----------|---------------------|---------------------------------|
| <b>25CT SERIES COURSE THREAD NOZZLE</b>                                     |                         |                |           |                     |                                 |
| Thread-On (A)                                                               | 1/2" (12.7 mm)          | <b>25CT-50</b> | 1250-1410 | <b>Standard</b>     | 1/8" (3.2 mm) Tip Recess        |
|                                                                             | 5/8" (15.9 mm)          | <b>25CT-62</b> | 1250-1420 | <b>Standard</b>     | 1/8" (3.2 mm) Tip Recess        |
|                                                                             | 3/4" (19.5 mm)          | <b>25CT-75</b> | 1250-1430 | <b>Standard</b>     | 1/8" (3.2 mm) Tip Recess        |
| <b>25I SERIES 3-PIECE NOZZLE DESIGN - 0.970" (24.6 mm) OUTSIDE DIAMETER</b> |                         |                |           |                     |                                 |
| Thread-On                                                                   | 5/8" (15.9 mm)          | <b>25I-62</b>  | 1250-1120 | <b>Standard (1)</b> | 5/32" (3.97 mm) Tip Recess      |
|                                                                             | 3/4" (19.5 mm)          | <b>25I-75</b>  | 1250-1130 | <b>Standard (1)</b> | 5/32" (3.97 mm) Tip Recess      |
| <b>26CT SERIES COURSE THREAD NOZZLE</b>                                     |                         |                |           |                     |                                 |
| Thread-On (B)                                                               | 5/8" (15.9 mm)          | <b>26CT-62</b> | 1260-1420 | <b>Standard</b>     | 1/8" (3.2 mm) Tip Recess        |
|                                                                             | 3/4" (19.5 mm)          | <b>26CT-75</b> | 1260-1430 | <b>Standard</b>     | 1/8" (3.2 mm) Tip Recess        |
| <b>26I SERIES 3-PIECE NOZZLE DESIGN - 1.187" (30.1 mm) OUTSIDE DIAMETER</b> |                         |                |           |                     |                                 |
| Thread-On                                                                   | 5/8" (15.9 mm)          | <b>26I-62</b>  | 1260-1120 | <b>Standard (1)</b> | 1/8" (3.2 mm) Tip Recess        |
|                                                                             | 3/4" (19.5 mm)          | <b>26I-75</b>  | 1260-1130 | <b>Standard (1)</b> | 1/8" (3.2 mm) Tip Recess        |

Note: (A) - Use with Nozzle Insulator Part No. 35CT (Stock No. 1350-1400)  
 (B) - Use with Nozzle Insulator Part No. 36CT (Stock No. 1360-1400)  
 (1) - Self Insulated Nozzle



35CT



36CT



21-62FAS



25CT-162FAS

## AIR-COOLED FLAT ARC SPOT NOZZLES

| Nozzle Style  | Bore Diameter (in / mm) | Part No.           | Stock No. |
|---------------|-------------------------|--------------------|-----------|
| Thread-On (1) | 1/2" (12.7 mm)          | <b>21-62FAS</b>    | 1210-1520 |
| Slip-On (B)   | 3/4" (19.5 mm)          | <b>24A-100FAS</b>  | 1240-1550 |
| Thread-On (C) | 1-5/8" (41.3 mm)        | <b>25CT-162FAS</b> | 1250-1570 |

Note: (A) - Use with Nozzle Insulator Part No. 32 (Stock No. 1320-1100)  
 (B) - Use with Nozzle Insulator Part No. 34A (Stock No. 1340-1100)  
 (C) - Use with Nozzle Insulator Part No. 35CT (Stock No. 1350-1400)  
 (1) - Self Insulated Nozzle



32



34A



35CT



EL22I Series



EL22CT Series

**AIR-COOLED ELIMINATOR® NOZZLES**

| Nozzle Style                                                                   | Bore Diameter<br>(in / mm) | Part No.          | Stock No. | Nozzle Design          | Nozzle/Contact Tip Relationship            |
|--------------------------------------------------------------------------------|----------------------------|-------------------|-----------|------------------------|--------------------------------------------|
| <b>EL22I SERIES 3-PIECE NOZZLE DESIGN - 0.875" (22.2 mm) OUTSIDE DIAMETER</b>  |                            |                   |           |                        |                                            |
| Slip-On (A)                                                                    | 3/8" (9.5 mm)              | <b>EL22I-37</b>   | 1260-1601 | Standard               | 1/8" - 5/32" (3.2 mm - 3.97 mm) Tip Recess |
|                                                                                | 1/2" (12.7 mm)             | <b>EL22I-50</b>   | 1260-1602 | Standard               | 1/8" - 5/32" (3.2 mm - 3.97 mm) Tip Recess |
|                                                                                | 1/2" (12.7 mm)             | <b>EL22I-50P</b>  | 1260-1686 | Standard               | 5/32" (3.97 mm) Tip Protruding             |
|                                                                                | 5/8" (15.9 mm)             | <b>EL22I-62</b>   | 1260-1603 | Standard               | 1/8" - 5/32" (3.2 mm - 3.97 mm) Tip Recess |
|                                                                                | 3/4" (19.5 mm)             | <b>EL22I-75</b>   | 1260-1604 | Standard               | 1/8" - 5/32" (3.2 mm - 3.97 mm) Tip Recess |
| <b>EL22CT SERIES 3-PIECE NOZZLE DESIGN - 0.875" (22.2 mm) OUTSIDE DIAMETER</b> |                            |                   |           |                        |                                            |
| Thread-On (B)                                                                  | 3/8" (9.5 mm)              | <b>EL22CT-37</b>  | 1260-1625 | Standard               | 1/8" - 5/32" (3.2 mm - 3.97 mm) Tip Recess |
|                                                                                | 3/8" (9.5 mm)              | <b>EL22CT-37F</b> | 1260-1635 | Standard               | Flush To 1/16" (1.6 mm) Tip Recess         |
|                                                                                | 1/2" (12.7 mm)             | <b>EL22CT-50</b>  | 1260-1626 | Standard               | 1/8" - 5/32" (3.2 mm - 3.97 mm) Tip Recess |
|                                                                                | 1/2" (12.7 mm)             | <b>EL22CT-50F</b> | 1260-1636 | Standard               | Flush To 1/16" (1.6 mm) Tip Recess         |
|                                                                                | 5/8" (15.9 mm)             | <b>EL22CT-62</b>  | 1260-1627 | Standard               | 1/8" - 5/32" (3.2 mm - 3.97 mm) Tip Recess |
|                                                                                | 5/8" (15.9 mm)             | <b>EL22CT-62F</b> | 1260-1637 | Standard               | Flush To 1/16" (1.6 mm) Tip Recess         |
|                                                                                | 5/8" (15.9 mm)             | <b>EL22CT-62P</b> | 1260-1692 | Standard               | 5/32" (3.97 mm) Tip Protruding             |
|                                                                                | 5/8" (15.9 mm)             | <b>EL22CT-62H</b> | 1260-1629 | Standard<br>Heavy-Duty | 1/8" - 5/32" (3.2 mm - 3.97 mm) Tip Recess |
|                                                                                | 3/4" (19.5 mm)             | <b>EL22CT-75</b>  | 1260-1628 | Standard               | 1/8" - 5/32" (3.2 mm - 3.97 mm) Tip Recess |

Note: Self Insulated Nozzles

(A) - Use with Part No. EL52 (Stock No. 1560-1110) Gas Diffuser

(B) - Use with Part No. EL52CT Series Gas Diffuser

(C) - Nickel plated nozzle – Use with Part No. QTR52 Series Gas Diffusers



EL24I Series



EL24CT Series



REL24 Series

## AIR-COOLED ELIMINATOR® NOZZLES

| Nozzle Style                                                                   | Bore Diameter (in / mm) | Part No.           | Stock No. | Nozzle Design              | Nozzle/Contact Tip Relationship            |
|--------------------------------------------------------------------------------|-------------------------|--------------------|-----------|----------------------------|--------------------------------------------|
| <b>EL24I SERIES 3-PIECE NOZZLE DESIGN - 0.875" (22.2 mm) OUTSIDE DIAMETER</b>  |                         |                    |           |                            |                                            |
| Slip-On (A)                                                                    | 3/8" (9.5 mm)           | <b>EL24I-37</b>    | 1260-1606 | <b>Tapered</b>             | 1/8" - 5/32" (3.2 mm - 3.97 mm) Tip Recess |
|                                                                                | 1/2" (12.7 mm)          | <b>EL24I-50</b>    | 1260-1607 | <b>Tapered</b>             | 1/8" - 5/32" (3.2 mm - 3.97 mm) Tip Recess |
|                                                                                | 5/8" (15.9 mm)          | <b>EL24I-62</b>    | 1260-1608 | <b>Tapered</b>             | Flush To 1/16" (1.6 mm) Tip Recess         |
|                                                                                | 5/8" (15.9 mm)          | <b>EL24I-62R</b>   | 1260-1677 | <b>Tapered</b>             | 3/8" (9.5 mm) Tip Recess                   |
|                                                                                | 5/8" (15.9 mm)          | <b>EL24I-62H</b>   | 1260-1631 | <b>Tapered Heavy-Duty</b>  | 1/8" - 5/32" (3.2 mm - 3.97 mm) Tip Recess |
|                                                                                | 3/4" (19.5 mm)          | <b>EL24I-75</b>    | 1260-1609 | <b>Tapered</b>             | 1/8" - 5/32" (3.2 mm - 3.97 mm) Tip Recess |
|                                                                                | 3/4" (19.5 mm)          | <b>EL24I-75H</b>   | 1260-1632 | <b>Tapered Heavy-Duty</b>  | 1/8" - 5/32" (3.2 mm - 3.97 mm) Tip Recess |
| <b>EL24CT SERIES 3-PIECE NOZZLE DESIGN - 0.875" (22.2 mm) OUTSIDE DIAMETER</b> |                         |                    |           |                            |                                            |
| Thread-On (B)                                                                  | 3/8" (9.5 mm)           | <b>EL24CT-37</b>   | 1260-1650 | <b>Standard</b>            | 1/8" - 5/32" (3.2 mm - 3.97 mm) Tip Recess |
|                                                                                | 1/2" (12.7 mm)          | <b>EL24CT-50</b>   | 1260-1651 | <b>Standard</b>            | 1/8" - 5/32" (3.2 mm - 3.97 mm) Tip Recess |
|                                                                                | 1/2" (12.7 mm)          | <b>EL24CT-50P</b>  | 1260-1701 | <b>Standard</b>            | 5/32" (3.97 mm) Tip Protruding             |
|                                                                                | 5/8" (15.9 mm)          | <b>EL24CT-62</b>   | 1260-1652 | <b>Standard</b>            | 1/8" - 5/32" (3.2 mm - 3.97 mm) Tip Recess |
|                                                                                | 5/8" (15.9 mm)          | <b>EL24CT-62F</b>  | 1260-1667 | <b>Standard</b>            | Flush To 1/16" (1.6 mm) Tip Recess         |
|                                                                                | 5/8" (15.9 mm)          | <b>EL24CT-62R</b>  | 1260-1682 | <b>Standard</b>            | 3/8" (9.5 mm) Tip Recess                   |
|                                                                                | 5/8" (15.9 mm)          | <b>EL24CT-62H</b>  | 1260-1657 | <b>Standard Heavy-Duty</b> | 1/8" - 5/32" (3.2 mm - 3.97 mm) Tip Recess |
|                                                                                | 3/4" (19.5 mm)          | <b>EL24CT-75</b>   | 1260-1653 | <b>Standard</b>            | 1/8" - 5/32" (3.2 mm - 3.97 mm) Tip Recess |
|                                                                                | 3/4" (19.5 mm)          | <b>EL24CT-75H</b>  | 1260-1658 | <b>Standard Heavy-Duty</b> | 1/8" - 5/32" (3.2 mm - 3.97 mm) Tip Recess |
| <b>REL24 SERIES 3-PIECE NOZZLE DESIGN - 1.000" (25.4 mm) OUTSIDE DIAMETER</b>  |                         |                    |           |                            |                                            |
| Thread-On (C)                                                                  | 1/2" (12.7 mm)          | <b>REL24CT-50</b>  | 1240-1305 | <b>Straight</b>            | 5/32" (3.97 mm) Tip Recess                 |
|                                                                                | 1/2" (12.7 mm)          | <b>REL24CT-50F</b> | 1240-1315 | <b>Straight</b>            | Flush To 1/16" (1.6 mm) Tip Recess         |
|                                                                                | 1/2" (12.7 mm)          | <b>REL24CT-50P</b> | 1240-1310 | <b>Straight</b>            | 5/32" (3.97 mm) Tip Protruding             |
|                                                                                | 5/8" (15.9 mm)          | <b>REL24CT-62</b>  | 1240-1306 | <b>Straight</b>            | 5/32" (3.97 mm) Tip Recess                 |
|                                                                                | 5/8" (15.9 mm)          | <b>REL24CT-62F</b> | 1240-1316 | <b>Straight</b>            | Flush To 1/16" (1.6 mm) Tip Recess         |
|                                                                                | 5/8" (15.9 mm)          | <b>REL24CT-62P</b> | 1240-1311 | <b>Straight</b>            | 5/32" (3.97 mm) Tip Recess                 |
|                                                                                | 3/4" (19.5 mm)          | <b>REL24CT-75F</b> | 1240-1317 | <b>Straight</b>            | Flush To 1/16" (1.6 mm) Tip Recess         |
|                                                                                | 3/4" (19.5 mm)          | <b>REL24CT-75P</b> | 1240-1312 | <b>Straight</b>            | 5/32" (3.97 mm) Tip Protruding             |

Note: Self Insulated Nozzles

(A) - Use with Part No. EL54 Series Gas Diffusers

(B) - Use with Part No. EL52CT Series Gas Diffusers

(C) - Nickel plated nozzle - Use with Part No. QTR56-SW Gas Diffuser



SW24 Series



WC26 Series



RW26 Series

## WATER-COOLED NOZZLES

| Nozzle Style                                                                             | Bore Diameter (in / mm) | Part No.          | Stock No. | Nozzle Design       | Nozzle/Contact Tip Relationship            |
|------------------------------------------------------------------------------------------|-------------------------|-------------------|-----------|---------------------|--------------------------------------------|
| <b>SW24 SERIES</b>                                                                       |                         |                   |           |                     |                                            |
| Slip-On (A)                                                                              | 5/8" (15.9 mm)          | <b>SW24-15</b>    | 1244-1026 | <b>Standard</b>     | 1/8" - 5/32" (3.2 mm - 3.97 mm) Tip Recess |
|                                                                                          | 11/16" (17 mm)          | <b>SW24-17</b>    | 1244-1025 | <b>Standard</b>     | 1/8" - 5/32" (3.2 mm - 3.97 mm) Tip Recess |
|                                                                                          | 13/16" (21 mm)          | <b>SW24-21</b>    | 1244-1027 | <b>Standard</b>     | 1/8" - 5/32" (3.2 mm - 3.97 mm) Tip Recess |
| <b>WC26 SERIES - STANDARD 3-PIECE NOZZLE DESIGN - 1.062" (30 mm) OUTSIDE DIAMETER</b>    |                         |                   |           |                     |                                            |
| Thread-On (B)                                                                            | 5/8" (15.9 mm)          | <b>WC26-62</b>    | 1264-1120 | <b>Standard</b>     | 1/8" (3.2 mm) Tip Recess                   |
|                                                                                          | 5/8" (15.9 mm)          | <b>WC26-62R</b>   | 1264-1123 | <b>Standard</b>     | 1/4" (6.4 mm) Tip Recess                   |
|                                                                                          | 3/4" (19.5 mm)          | <b>WC26-75</b>    | 1264-1130 | <b>Standard</b>     | 1/8" (3.2 mm) Tip Recess                   |
|                                                                                          | 3/4" (19.5 mm)          | <b>WC26-75F</b>   | 1264-1132 | <b>Standard</b>     | Tip Flush                                  |
|                                                                                          | 3/4" (19.5 mm)          | <b>WC26-75R</b>   | 1264-1133 | <b>Standard</b>     | 1/4" (6.4 mm) Tip Recess                   |
| <b>WC26 SERIES - ELIMINATOR® 3-PIECE NOZZLE DESIGN - 1.062" (30 mm) OUTSIDE DIAMETER</b> |                         |                   |           |                     |                                            |
| Thread-On (C)                                                                            | 1/2" (12.7 mm)          | <b>WC26-50EL</b>  | 1262-1031 | <b>Standard</b>     | 1/8" (3.2 mm) Tip Recess                   |
|                                                                                          | 5/8" (15.9 mm)          | <b>WC26-62EL</b>  | 1262-1032 | <b>Standard</b>     | 1/8" (3.2 mm) Tip Recess                   |
|                                                                                          | 5/8" (15.9 mm)          | <b>WC26-62ELF</b> | 1262-1037 | <b>Standard</b>     | Tip Flush                                  |
|                                                                                          | 3/4" (19.5 mm)          | <b>WC26-75EL</b>  | 1262-1033 | <b>Standard</b>     | 1/8" (3.2 mm) Tip Recess                   |
|                                                                                          | 3/4" (19.5 mm)          | <b>WC26-75ELF</b> | 1262-1038 | <b>Standard</b>     | 5/32" (3.97 mm) Tip Protruding             |
|                                                                                          | 3/4" (19.5 mm)          | <b>WC26-75ELR</b> | 1262-1042 | <b>Standard</b>     | Tip Flush                                  |
| <b>RWC26 SERIES</b>                                                                      |                         |                   |           |                     |                                            |
| Thread-On (A)                                                                            | 1/2" (12.7 mm)          | <b>RWC26-50</b>   | 1264-1430 | <b>Standard (1)</b> | 1/8" - 5/32" (3.2 mm - 3.97 mm) Tip Recess |
|                                                                                          | 5/8" (15.9 mm)          | <b>RWC26-62</b>   | 1264-1431 | <b>Standard (1)</b> | 1/8" - 5/32" (3.2 mm - 3.97 mm) Tip Recess |
|                                                                                          | 5/8" (15.9 mm)          | <b>RWC26-75</b>   | 1264-1432 | <b>Standard (1)</b> | 1/8" - 5/32" (3.2 mm - 3.97 mm) Tip Recess |

Note: (A) - Use with Insulator Ring Part No. SW64-2 (Stock No. 2044-1020)  
 (B) - Use with Spatter Shield Part No. WC26-1 (Stock No. 1264-1009)  
 (C) - Use with Spatter Shield Part No. WC26EL-1 (Stock No. 1262-1049)  
 Use with Eliminator style contact tips  
 (1) - Nickel plated nozzles



PMW24 Series

## PULSEMASTER™ WATER-COOLED NOZZLES

| Nozzle Style        | Bore Diameter (in / mm) | Part No.         | Stock No. | Nozzle Design   | Nozzle/Contact Tip Relationship |
|---------------------|-------------------------|------------------|-----------|-----------------|---------------------------------|
| <b>PMW24 SERIES</b> |                         |                  |           |                 |                                 |
| Thread-On           | 1/2" (12.7 mm)          | <b>PMW24-50F</b> | 1260-1735 | <b>Standard</b> | Flush To 1/2" (12.5 mm)         |
|                     | 1/2" (12.7 mm)          | <b>PMW24-50</b>  | 1260-1736 | <b>Standard</b> | 0.156" (3.9 mm) Tip Recess      |
|                     | 5/8" (15.9 mm)          | <b>PMW24-62F</b> | 1260-1737 | <b>Standard</b> | Flush to 5/8" (16 mm)           |
|                     | 5/8" (15.9 mm)          | <b>PMW24-62</b>  | 1260-1738 | <b>Standard</b> | 0.156" (3.9 mm) Tip Recess      |
|                     | 3/4" (19.5 mm)          | <b>PMW24-75F</b> | 1260-1739 | <b>Standard</b> | Flush To 3/4" (19 mm)           |
|                     | 3/4" (19.5 mm)          | <b>PMW24-75</b>  | 1260-1740 | <b>Standard</b> | 0.156" (3.9 mm) Tip Recess      |

Note: Nozzles are nickel plated



# MIG Welding Consumables



| AIR-COOLED STANDARD GAS DIFFUSERS |           |          |             |                        |
|-----------------------------------|-----------|----------|-------------|------------------------|
| Part No.                          | Stock No. | Material | Contact Tip | Nozzle                 |
| <b>MINI-MIG SERIES</b>            |           |          |             |                        |
| 35-50                             | 1500-1100 | Brass    | 11 Series   | 21 Series              |
| <b>51 SERIES</b>                  |           |          |             |                        |
| 51                                | 1510-1101 | Brass    | 11 Series   | 21 Series              |
| 51-23                             | 1510-1100 | Brass    | 11-23       | 21 Series              |
| EL51                              | 1510-1105 | Brass    | EL11 Series | REL21 Series           |
| QTRW53-11                         | 1525-1141 | Brass    | 11 Series   | REL21 Series           |
| <b>52 SERIES</b>                  |           |          |             |                        |
| 52                                | 1520-1101 | Brass    | 14 Series   | 22 Series              |
| 52FN                              | 1520-1102 | Brass    | 14 Series   | 24A or 23 Series       |
| MS52T-11                          | 1520-1133 | Brass    | 11 Series   | 22 Series              |
| <b>54 SERIES</b>                  |           |          |             |                        |
| 54P                               | 1540-1103 | Copper   | 14 Series   | 24A, 24CT, & 23 Series |
| 54A                               | 1540-1100 | Brass    | 14 Series   | 24A, 24CT, & 23 Series |
| 54A-16                            | 1540-1104 | Brass    | 16S Series  | 24A, 24CT, & 23 Series |
| HD54-14                           | 1540-1135 | Brass    | 14 Series   | HD24 Series            |
| HD54-16                           | 1540-1136 | Brass    | 16S Series  | HD24 Series            |
| HD54-EL                           | 1540-1137 | Brass    | EL16 Series | HD24 Series            |
| PMA54-16S                         | 1543-1106 | Brass    | 16PS Series | PMA24 Series           |
| <b>55 SERIES</b>                  |           |          |             |                        |
| 55SW (1)                          | 1550-1101 | Copper   | 15H Series  | 25CT Series            |
| 55 (2)                            | 1550-1100 | Copper   | 15H Series  | 25CT Series            |
| 55H (3)                           | 1550-1102 | Copper   | 15H Series  | 25CT Series            |
| 55S-SW (1)                        | 1550-1110 | Copper   | 16S Series  | 25I Series             |
| 55S-H (2) (3)                     | 1550-1111 | Copper   | 16S Series  | 25I Series             |
| 55S-SWL (4)                       | 1550-1120 | Copper   | 16S Series  | 25I Series             |
| PMW55-16                          | 1550-1105 | Brass    | 16PS Series | PMW24 Series           |
| <b>56 SERIES</b>                  |           |          |             |                        |
| 56S-SW                            | 1560-1100 | Copper   | 16S Series  | 26CT or 26I            |
| 56S-H                             | 1560-1101 | Copper   | 16S Series  | 26CT or 26I            |

Note: (1) - Use with 45-3545, 45-116, and 45N-3545 Conduit Liners  
 (2) - Use with 45-564, and 45N-116 Conduit Liners  
 (3) - Use with 45H-332, 45H-764, and 45-18 Conduit Liners  
 (4) - Use with 45-3545, 45-116, and 45N-3545 Conduit Liners. Tip/Nozzle relationship will be 1/8" (3.2 mm) tip recess







EL52 Series



HD52-11



EL54 Series

## AIR-COOLED ELIMINATOR® STYLE GAS DIFFUSERS

| Part No.           | Stock No. | Material | Contact Tip | Nozzle        |
|--------------------|-----------|----------|-------------|---------------|
| <b>EL52 SERIES</b> |           |          |             |               |
| EL52 (3)           | 1560-1110 | Brass    | EL16 Series | EL22I Series  |
| EL52CT (3)         | 1560-1109 | Brass    | EL16 Series | EL22CT Series |
| EL52CT-14 (3)      | 1560-1106 | Brass    | 14 Series   | EL22CT Series |
| EL52CT-16 (3)      | 1560-1107 | Brass    | 16S Series  | EL22CT Series |
| HD52-11 (3)        | 1520-1130 | Brass    | 11 Series   | HD22 Series   |
| <b>EL54 SERIES</b> |           |          |             |               |
| EL54-SW (1) (4)    | 1560-1114 | Brass    | EL16 Series | EL24I Series  |
| EL54-H (2) (4)     | 1560-1115 | Brass    | EL16 Series | EL24I Series  |
| EL54CT-SW (1) (4)  | 1560-1116 | Brass    | EL16 Series | EL24CT Series |
| EL54CT-H (2) (4)   | 1560-1117 | Brass    | EL16 Series | EL24CT Series |

Note: (1) - Use with 45-3545, 45-116, and 45N-3545 Conduit Liners  
(2) - Use with 45-564, 45N-116, 45H-332, 45H-764, and 45-18 Conduit Liners  
(3) - Replacement O-ring for EL52 Series Gas Diffuser use Part No. EL52-1 (Stock No. 1560-1108)  
(4) - Replacement O-ring for EL54 Series Gas Diffuser use Part No. EL54-10 (Stock No. 1560-1121)



WC56EL-H



QTRW56-SW



WC56A-SW

## WATER-COOLED STYLE GAS DIFFUSERS

| Part No.       | Stock No. | Material | Contact Tip | Nozzle                 |
|----------------|-----------|----------|-------------|------------------------|
| <b>400 AMP</b> |           |          |             |                        |
| SW54-16S       | 1540-1115 | Brass    | 16S Series  | SW24 Series            |
| SW54-EL        | 1540-1116 | Brass    | EL16 Series | SW24 Series            |
| QTRW54         | 1544-1125 | Brass    | 14H Series  | RWC24 Series           |
| QTRW54-16      | 1544-1126 | Brass    | 16S Series  | RWC24 Series           |
| <b>600 AMP</b> |           |          |             |                        |
| WC56A-SW       | 1564-1145 | Brass    | 16S Series  | WC26 or RWC26 Series   |
| WC56EL-SW      | 1560-1146 | Brass    | EL16 Series | WC26EL or RWC26 Series |
| WC56EL-H       | 1560-1147 | Brass    | EL16 Series | WC26EL or RWC26 Series |
| QTRW56-SW      | 1560-1125 | Brass    | 16S Series  | WC26 or RWC26 Series   |

# MIG Welding Consumables

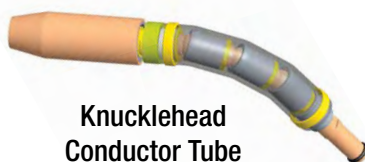
## KNUCKLEHEAD® FLEXIBLE CONDUCTOR TUBES

### BEND UP TO AN 80° ANGLE

- Specially engineered to bend while minimizing restrictions on wire feeding
- Get that same consistent angle and firm feel that any comparable bent rigid tube offers
- Bend to the right feel and comfort. The engineers at Tweco® have designed the Knucklehead to work with the following Tweco MIG guns: Professional Spray Master® Series, Professional Choice No. Series, Professional Eliminator® Series and Standard WeldSkill® Series



**Spray Master**  
with Knucklehead  
Conductor Tube



**Knucklehead**  
Conductor Tube



*Leading competitor  
at only 348 cycles*

### ENGINEERED TO LAST LONGER



Patent Pending mechanical connections engineered to last 50x longer than any other design on the market today. Proven in heavy duty field trials the Knucklehead flexible conductor tube is rugged and flexible enough to be used everyday. It makes difficult welding applications easier.

- Improved weld quality
- Increased productivity
- Less welder fatigue
- Improves the ergonomics of any MIG Gun
- Lasts longer than any design on the market today
- Eliminates downtime caused by changing conductor tubes

Each connector allows for approximately 20° of bend. Two models are offered in 3 or 4 connector designs. Each three-connector design allows a maximum of 60° of bend and each four-connector design allows a maximum of 80° of bend.

Extended reach Knucklehead conductor tubes are also available designated with "LR" on the end of the part no.

### HEAVY DUTY PERFORMANCE

### EVEN ON YOUR 80% DUTY CYCLE GUNS

| <b>KNUCKLEHEAD® CONDUCTOR TUBES</b>      |            |                |                  |                        |                |           |
|------------------------------------------|------------|----------------|------------------|------------------------|----------------|-----------|
| Amp/Model                                | Bend Angle | Standard Cons. | Eliminator Cons. | Long Reach (2" longer) | Part No.       | Stock No. |
| <b>PROFESSIONAL SPRAY MASTER® SERIES</b> |            |                |                  |                        |                |           |
| 250                                      | 60°        | x              |                  |                        | MS62SFLX3-60   | 1620-1341 |
|                                          | 80°        | x              |                  |                        | MS62SFLX4-80   | 1620-1342 |
| 350                                      | 60°        | x              |                  |                        | MS63SFLX3-60   | 1630-1197 |
|                                          | 80°        | x              |                  |                        | MS63SFLX4-80   | 1630-1198 |
| 450                                      | 60°        | x              |                  |                        | MS64SFLX3-60   | 1640-1307 |
|                                          | 80°        | x              |                  |                        | MS64SFLX4-80   | 1640-1308 |
|                                          | 60°        | x              |                  | x                      | MS64SFLX3-60LR | 1640-1309 |
|                                          | 80°        | x              |                  | x                      | MS64SFLX4-80LR | 1640-1310 |
|                                          | 60°        |                | x                |                        | MS64SFLX3-60EL | 1640-1370 |
|                                          | 80°        |                | x                |                        | MS64SFLX4-80EL | 1640-1371 |
| <b>PROFESSIONAL CHOICE NO. SERIES</b>    |            |                |                  |                        |                |           |
| Mini                                     | 60°        | x              |                  |                        | 3560SFLX3-60   | 1600-1139 |
|                                          | 80°        | x              |                  |                        | 3560SFLX4-80   | 1600-1141 |
| No. 1                                    | 80°        | x              |                  |                        | 61SFLX4-80     | 1610-1105 |
| No. 2                                    | 60°        | x              |                  |                        | 62SFLX3-60     | 1620-1105 |
|                                          | 80°        | x              |                  |                        | 62SFLX4-80     | 1620-1106 |
| No. 3                                    | 60°        | x              |                  |                        | 64SFLX3-60     | 1640-1112 |
|                                          | 80°        | x              |                  |                        | 64SFLX4-80     | 1640-1113 |
| No. 4                                    | 60°        | x              |                  | x                      | 64SFLX3-60LR   | 1640-1121 |
|                                          | 80°        | x              |                  | x                      | 64SFLX4-80LR   | 1640-1122 |
| <b>PROFESSIONAL ELIMINATOR® SERIES</b>   |            |                |                  |                        |                |           |
| 250                                      | 60°        |                | x                |                        | EL62SFLX3-60   | 1620-1115 |
|                                          | 80°        |                | x                |                        | EL62SFLX4-80   | 1620-1116 |
| 450                                      | 60°        |                | x                |                        | EL64SFLX3-60   | 1640-1143 |
|                                          | 80°        |                | x                |                        | EL64SFLX4-80   | 1640-1144 |
|                                          | 80°        |                | x                | x                      | EL64SFLX4-80LR | 1640-1149 |
| <b>STANDARD WELDSKILL® SERIES</b>        |            |                |                  |                        |                |           |
| 250                                      | 60°        | x              |                  |                        | 62SFLX3-60     | 1620-1105 |
|                                          | 80°        | x              |                  |                        | 62SFLX4-80     | 1620-1106 |
| 400                                      | 60°        | x              |                  |                        | 64SFLX3-60     | 1640-1112 |
|                                          | 80°        | x              |                  |                        | 64SFLX4-80     | 1640-1113 |
|                                          | 60°        | x              |                  | x                      | 64SFLX3-60LR   | 1640-1121 |
|                                          | 80°        | x              |                  | x                      | 64SFLX4-80LR   | 1640-1122 |

Outer Jacket Repair Kit  
 250A - Part No. FLXSJ-RK (Stock No. 1620-1345)  
 350/450A - Part No. FLXLJ-RK (Stock No. 1640-1385)  
 (Repair Kits include the neoprene outer jacket and stainless steel straps)



64A-4EX

## Rigid Conductor Tubes Extensions FOR TRADITIONAL STYLE GUNS

| <b>CONDUCTOR TUBE EXTENSIONS</b> |                     |               |
|----------------------------------|---------------------|---------------|
| No 3 & 4                         | No. 5               |               |
| <b>Straight - 180</b>            |                     |               |
| N/A                              | 65-6EX<br>1650-1302 | Extension 60° |
| 64A-8EX<br>1640-1303             | N/A                 | Extension 80° |

# MIG Welding Consumables

| PROFESSIONAL CONDUCTOR TUBES, AIR-COOLED |                                               |                                                  |                       |                         |                                                   |        |        |        |
|------------------------------------------|-----------------------------------------------|--------------------------------------------------|-----------------------|-------------------------|---------------------------------------------------|--------|--------|--------|
| Series                                   | Part No.                                      | Stock No.                                        | Outer Jacket Material | Back End Threads        | Front End Threads                                 | Radius |        |        |
|                                          |                                               |                                                  |                       |                         |                                                   | 60     | 45     | 80     |
| MINI-MIG                                 | 35-60-60<br>35-60-45                          | 1600-1102<br>1600-1101                           | Neoprene Rubber       | O.D.<br>M12 x 1.5-6g    | I.D.<br>M9 x 1.25-6g                              | 2-1/4" | 1-3/4" | 2-1/4" |
| Professional No. 1                       | 61-60<br>61-180                               | 1610-1102<br>1610-1104                           | Neoprene Rubber       | N/A                     | I.D.<br>M10 x 1.5-6H                              | 2-1/2" | 3-1/8" | N/A    |
| Professional No. 2                       | 62J-60                                        | 1620-1301                                        | Metal                 | I.D.<br>3/8"-24 UNF-2B  | I.D.<br>3/8"-24 UNF-2B                            | 3"     | 3"     | N/A    |
|                                          | 62A-60<br>62A-180                             | 1620-1102<br>1620-1104                           | Fiber                 | I.D.<br>3/8"-24 UNF-2B  | I.D.<br>3/8"-24 UNF-2B                            | 2"     | 2"     | N/A    |
|                                          | 62ELJ-80<br>62ELJ-180                         | 1620-1307<br>1620-1308                           | Metal                 | I.D.<br>3/8"-24 UNF-2B  | I.D.<br>M11 x 1.5-6H                              | 3"     | N/A    | 3"     |
| Professional No. 3                       | 63J-60<br>63J-45<br>63J-80                    | 1630-1111<br>1630-1110<br>1630-1112              | Metal                 | I.D.<br>3/8"-24 UNF-2B  | I.D.<br>3/8"-24 UNF-2B<br>O.D.<br>9/16"-18 UNF-2A | 3"     | 3"     | 3"     |
|                                          | 63ELJ-180                                     | 1630-1118                                        | Metal                 | I.D.<br>3/8"-24 UNF-2B  | I.D.<br>M11 x 1.5-6H                              | 3"     | N/A    | 3"     |
| Professional No. 4                       | 64J-60<br>64J-45                              | 1640-1106<br>1640-1105                           | Metal                 | I.D.<br>3/8"-24 UNF-2B  | I.D.<br>3/8"-24 UNF-2B<br>O.D.<br>9/16"-18 UNF-2A | 3"     | 3"     | N/A    |
|                                          | 64A-60<br>64A-45                              | 1640-1102<br>1640-1101                           | Fiber                 | I.D.<br>3/8"-24 UNF-2B  | I.D.<br>3/8"-24 UNF-2B<br>O.D.<br>9/16"-18 UNF-2A | 3"     | 3"     | 3"     |
|                                          | 64ELJ-60<br>64ELJ-45<br>64ELJ-80<br>64ELJ-180 | 1640-1117<br>1640-1116<br>1640-1118<br>1640-1119 | Metal                 | I.D.<br>3/8"-24 UNF-2B  | I.D.<br>M12 x 1.5-6H                              | 3"     | 3"     | 3"     |
|                                          |                                               |                                                  |                       |                         |                                                   |        |        |        |
| Professional No. 5                       | 65J-60<br>65J-45<br>65J-180                   | 1650-1111<br>1650-1110<br>1650-1113              | Metal                 | I.D.<br>7/16"-20 UNF-2B | I.D.<br>7/16"-20 UNF-2B<br>O.D.<br>5/8"-18 UNF-2A | 5"     | 5"     | 5"     |
|                                          | 65H-45-5R<br>65H-80-5R                        | 1652-1101<br>1652-1103                           | Thermo Flex           | I.D.<br>7/16"-20 UNF-2B | I.D.<br>7/16"-20 UNF-2B<br>O.D.<br>M17 x 2.0-6G   | N/A    | 5"     | 5"     |
| Professional No. 6                       | 66J-60<br>66J-80                              | 1660-1826<br>1660-1827                           | Metal                 | I.D.<br>7/16"-20 UNF-2B | I.D.<br>M12 x 1.5 6H<br>O.D.<br>M17 x 2.0-6G      | 5"     | 5"     | 5"     |
| Spray Master® 250                        | MS63-60S                                      | 1630-1196                                        | Metal                 | N/A                     | I.D.<br>M11 x 1.5-6H                              | 2"     | 2"     | N/A    |
|                                          | MS63-60                                       | 1630-1189                                        | Metal                 | N/A                     | I.D.<br>M11 x 1.5-6H                              | 3"     | 3"     | N/A    |
|                                          | MS62A-60                                      | 1620-1340                                        | Metal                 | N/A                     | I.D.<br>3/8" 24 UNF-2B                            | 2"     | N/A    | N/A    |
| Spray Master® 350                        | MS63-60<br>MS63-45<br>MS63-180                | 1630-1189<br>1630-1188<br>1630-1187              | Metal                 | N/A                     | I.D.<br>M11 x 1.5-6H                              | 3"     | 3"     | N/A    |
| Spray Master 450                         | MS64H-60<br>MS64H-45                          | 1640-1319<br>1640-1318                           | Metal                 | N/A                     | I.D.<br>3/8"-24 UNF-2B                            | 3"     | 3"     | N/A    |
|                                          | * MS64H-60LM<br>* MS64H-45LM                  | 1640-1317<br>1640-1323                           | Metal                 | N/A                     | O.D.<br>9/16"-18UNF-2A                            | 3"     | 3"     | N/A    |
|                                          | *** MS64-60S                                  | 1640-1342                                        | Metal                 | N/A                     | I.D.<br>M12 x 1.5-6H                              | 3"     | 3"     | N/A    |

## PROFESSIONAL CONDUCTOR TUBES, AIR-COOLED

| Series                  | Part No.                  | Stock No.              | Outer Jacket Material | Back End Threads        | Front End Threads                                 | Radius |             |     |
|-------------------------|---------------------------|------------------------|-----------------------|-------------------------|---------------------------------------------------|--------|-------------|-----|
|                         |                           |                        |                       |                         |                                                   | 60     | 45          | 80  |
| Compact Eliminator® 250 | EL63J-60                  | 1630-1137              | Metal                 | N/A                     | I.D.<br>M11 x 1.5-6H                              | 3"     | 3"          | N/A |
|                         | EL63J-45                  | 1630-1136              |                       |                         |                                                   |        |             |     |
| Compact Eliminator 450  | EL64J-60                  | 1640-1137              | Metal                 | N/A                     | I.D.<br>M12 x 1.5-6H                              | 3"     | 3"          | N/A |
|                         | EL64J-45                  | 1640-1136              |                       |                         |                                                   |        |             |     |
|                         | EL64-60                   | 1640-1110              | Fiber                 | N/A                     | I.D.<br>M12 x 1.5-6H                              | 2-1/4" | 2-1/4"      | N/A |
| Standard Eliminator 450 | EL64J-60                  | 1640-1137              | Metal                 | N/A                     | I.D.<br>M12 x 1.5-6H                              | 3"     | 3"          | N/A |
|                         | EL64J-45                  | 1640-1136              |                       |                         |                                                   |        |             |     |
|                         | EL64J-180                 | 1640-1135              |                       |                         |                                                   |        |             |     |
|                         | EL64-60                   | 1640-1110              | Fiber                 | N/A                     | I.D.<br>M12 x 1.5-6H                              | 2-1/4" | 2-1/4"      | N/A |
|                         | EL64-45                   | 1640-1111              |                       |                         |                                                   |        |             |     |
| TUFF-N-LITE 350         | 64TL-60                   | 1635-1031              | Fiber                 | N/A                     | I.D.<br>3/8"-24 UNF-2B<br>O.D.<br>9/16"-18UNF-2A  | 3"     | 3"          | N/A |
| SUPRA® XT (SEHD)        | SE64J-60<br>SE64J-45      | 1640-1347<br>1640-1346 | Metal                 | O.D.<br>9/16"-18 UNF-2A | I.D.<br>3/8"-24 UNF-2B<br>O.D.<br>9/16"-18UNF-2A  | 3"     | 3"          | N/A |
| SUPRA XT - SEL 450      | SEL64J-45                 | 1640-1321              | Metal                 | O.D.<br>9/16"-18UNF-2A  | I.D.<br>M12 x 1.5-6H                              | 3"     | 3"          | N/A |
| PulseMaster™ 350 & 450  | PMA64EL-45                | 1642-1130              | Metal                 | N/A                     | I.D.<br>M12 x 1.5-6H                              | N/A    | 3"          | N/A |
| SSG Spool               | PMP64EL-180<br>PMP64EL-30 | 1642-1140<br>1642-1141 | Metal                 | N/A                     | I.D.<br>M12 x 1.5-6H                              | N/A    | 3"<br>(30°) | N/A |
| PMP Push/Pull           | PMP64EL-180<br>PMP64EL-30 | 1642-1140<br>1642-1141 | Metal                 | N/A                     | I.D.<br>M12 x 1.5-6H                              | N/A    | 3"<br>(30°) | N/A |
| Smoke Master® 250       | S62-60<br>S62-45          | 2020-2006<br>2020-2011 | Powder Coat           | O.D.<br>M11 x 1.5-6G    | I.D.<br>M11 x 1.5-6H                              | 1.5"   | 1.5"        | N/A |
| Smoke Master 450        | S64-60                    | 1046-2258              | Teflon                | I.D.<br>M12 x 1.5-6G    | I.D.<br>M11 x 1.5-6H                              | 3"     | N/A         | N/A |
| FLUXCORED 350           | 64FC-60                   | 1641-1127              | Thermo Flex           | N/A                     | I.D.<br>5/16"-18 UNC-2B<br>O.D.<br>1/2"-13 UNC-2A | 3.1"   | 3.1"        | N/A |
| FLUXCORED 450           | 66FC-60                   | 1661-1127              | Thermo Flex           | N/A                     | I.D.<br>3/8"-16 UNC-2B<br>O.D.<br>5/8"-11 UNC-2A  | 3.6"   | 3.6"        | N/A |

## PROFESSIONAL CONDUCTOR TUBES, WATER-COOLED

|                       |          |           |          |     |                        |     |     |     |
|-----------------------|----------|-----------|----------|-----|------------------------|-----|-----|-----|
| PulseMaster 400 & 500 | PMW64-45 | 1644-2925 | Metal    | N/A | I.D.<br>3/8"-16 UNC-2B | N/A | 4"  | N/A |
| SUPRA 450             | SW64-60  | 1644-1125 | Neoprene | N/A | O.D.<br>M11 x 1.0-6G   | 4"  | N/A | N/A |
| Standard 600          | WCS66-60 | 1664-1106 | Neoprene | N/A | I.D.                   | 3"  | N/A | N/A |
|                       | WCS66-80 | 1664-1107 |          | N/A | 7/16"-20 UNF-2B        | N/A | N/A | 3"  |

N/A - Not Available

\* Long reach conductor tube – 2" longer than standard

\*\* Accepts EL54 Series Gas Diffuser - .750" (19.5mm) Longer than MS64-60S

\*\*\* Comes standard on all 450 Amp Spray Master MIG guns with the suffix "EL"

# MIG Welding Consumables

## CONDUIT LINERS FOR USE WITH STEEL WELDING WIRES

| Wire Size in / mm                  | Part No.   | Stock No. | Description                     |
|------------------------------------|------------|-----------|---------------------------------|
| <b>160A</b>                        |            |           |                                 |
| .023" (0.6 mm)                     | 23-40-15   | 1400-1123 | Steel Wound<br>15 ft (5 m) Long |
| .030" - .035"<br>(0.8 mm - 0.9 mm) | 35-40-15   | 1400-1133 | Steel Wound<br>15 ft (5 m) Long |
| .030" - .035"<br>(0.8 mm - 0.9 mm) | 35-40-20   | 1400-1134 | Steel Wound<br>20 ft (6 m) Long |
| .040" - .045"<br>(1.0 mm - 1.2 mm) | 45-40-15   | 1400-1143 | Steel Wound<br>15 ft (5 m) Long |
| <b>180 - 250A</b>                  |            |           |                                 |
| .030" - .035"<br>(0.8 mm - 0.9 mm) | 42-3035-15 | 1420-1113 | Steel Wound<br>15 ft (5 m) Long |
| .030" - .035"<br>(0.8 mm - 0.9 mm) | 42-3035-25 | 1420-1115 | Steel Wound<br>25 ft (8 m) Long |
| .040" - .045"<br>(1.0 mm - 1.2 mm) | 42-4045-15 | 1420-1123 | Steel Wound<br>15 ft (5 m) Long |
| .040" - .045"<br>(1.0 mm - 1.2 mm) | 42-4045-25 | 1420-1125 | Steel Wound<br>25 ft (8 m) Long |
| .052" - 1/16"<br>(1.3 mm - 1.6 mm) | 42-116-15  | 1420-1124 | Steel Wound<br>15 ft (5 m) Long |
| <b>300 - 450A</b>                  |            |           |                                 |
| .035" - .045"<br>(0.9 mm - 1.2 mm) | 44-3545-15 | 1440-1103 | Steel Wound<br>15 ft (5 m) Long |
| .035" - .045"<br>(0.9 mm - 1.2 mm) | 44-3545-25 | 1440-1105 | Steel Wound<br>25 ft (8 m) Long |
| .052" - 1/16"<br>(1.3 mm - 1.6 mm) | 44-116-15  | 1440-1113 | Steel Wound<br>15 ft (5 m) Long |
| .052" - 1/16"<br>(1.3 mm - 1.6 mm) | 44-116-25  | 1440-1115 | Steel Wound<br>25 ft (8 m) Long |
| 5/64" (2.0 mm)                     | 44-564-15  | 1440-1123 | Steel Wound<br>15 ft (5 m) Long |
| 5/64" (2.0 mm)                     | 44-564-25  | 1440-1125 | Steel Wound<br>25 ft (8 m) Long |
| 3/32" (2.4 mm)                     | 44-332-15  | 1440-1127 | Steel Wound<br>15 ft (5 m) Long |

| Wire Size in / mm                  | Part No.   | Stock No. | Description                     |
|------------------------------------|------------|-----------|---------------------------------|
| <b>500-650A</b>                    |            |           |                                 |
| .035" - .045"<br>(0.9 mm - 1.2 mm) | 45-3545-15 | 1450-1103 | Steel Wound<br>15 ft (5 m) Long |
| .052" - 1/16"<br>(1.3 mm - 1.6 mm) | 45-116-15  | 1450-1113 | Steel Wound<br>15 ft (5 m) Long |
| .052" - 1/16"<br>(1.3 mm - 1.6 mm) | 45-116-25  | 1450-1115 | Steel Wound<br>25 ft (8 m) Long |
| 5/64" (2.0 mm)                     | 45-564-15  | 1450-1123 | Steel Wound<br>15 ft (5 m) Long |
| 5/64" (2.0 mm)                     | 45-564-25  | 1450-1125 | Steel Wound<br>25 ft (8 m) Long |
| 3/32" (2.4 mm)                     | 45H-332-15 | 1450-1133 | Steel Wound<br>15 ft (5 m) Long |
| 7/64" (2.8 mm)                     | 45H-764-15 | 1450-1143 | Steel Wound<br>15 ft (5 m) Long |
| 1/8" (3.2 mm)                      | 45-18-15   | 1450-1153 | Steel Wound<br>15 ft (5 m) Long |



42-3035-15

## CONDUIT LINERS FOR USE WITH ALUMINUM WELDING WIRES

| Wire Size in / mm                  | Part No.    | Stock No. | Description                |
|------------------------------------|-------------|-----------|----------------------------|
| <b>160A</b>                        |             |           |                            |
| .030" - .035"<br>(0.8 mm - 0.9 mm) | 35TF-40-10  | 1400-1031 | Teflon<br>10 ft (3 m) Long |
| <b>180 - 250A</b>                  |             |           |                            |
| .030" - 3/64"<br>(0.8 mm - 1.2 mm) | 42N-3545-15 | 1420-1003 | Teflon<br>15 ft (5 m) Long |

| Wire Size in / mm                  | Part No.    | Stock No. | Description                         |
|------------------------------------|-------------|-----------|-------------------------------------|
| <b>300 - 450A</b>                  |             |           |                                     |
| .030" - 3/64"<br>(0.8 mm - 1.2 mm) | 44N-3545-15 | 1440-1003 | Nylon<br>15 ft (5 m) Long           |
| 1/16" (1.6 mm)                     | 44N-116-15  | 1440-1012 | Nylon<br>15 ft (5 m) Long           |
| <b>500 - 650A</b>                  |             |           |                                     |
| 1/16" (1.6 mm)                     | 45N-116-15  | 1450-1013 | Wire Nylon Wrap<br>15 ft (5 m) Long |



## PULSEMASTER™ MIG GUN CONDUIT LINERS FOR USE WITH ALUMINUM/ STEEL WELDING WIRES

| Wire Size in/mm                    | Part No.              | Stock No. | Description                                   |
|------------------------------------|-----------------------|-----------|-----------------------------------------------|
| .035" - .045"<br>(0.9 mm - 1.2 mm) | <b>44PSTF-3545-12</b> | 1441-1138 | Steel Wrapped / Teflon<br>12 ft (4 m) Long    |
| .035" - .045"<br>(0.9 mm - 1.2 mm) | <b>44PSTF-3545-15</b> | 1441-1137 | Steel Wrapped / Teflon<br>15 ft (5 m) Long    |
| .052" - 1/16"<br>(1.3 mm - 1.6 mm) | <b>44PSTF-116-12</b>  | 1441-1136 | Steel Wrapped / Teflon<br>12 ft (4 m) Long    |
| .052" - 1/16"<br>(1.3 mm - 1.6 mm) | <b>44PSTF-116-15</b>  | 1441-1135 | Steel Wrapped / Teflon<br>15 ft (5 m) Long    |
| max .045"<br>(1.2 mm)              | <b>44JT-3545</b>      | 1644-1088 | Bronze Jump<br>Liner 10-1/4"<br>(260 mm) Long |
| max .062"<br>(1.6 mm)              | <b>44JT-116</b>       | 1644-1086 | Bronze Jump<br>Liner 10-1/4"<br>(260 mm) Long |

## PULLMASTER™ MIG GUN CONDUIT LINERS FOR USE WITH ALUMINUM/ STEEL WELDING WIRES

| Wire Size in/mm                    | Part No.              | Stock No. | Description                                 |
|------------------------------------|-----------------------|-----------|---------------------------------------------|
| 3/64" - 1/16"<br>(1.2 mm - 1.6 mm) | <b>PMP44-116-33</b>   | 1441-1125 | Steel Wrapped / Teflon<br>33 ft (10 m) Long |
| 3/64" - 1/16"<br>(1.2 mm - 1.6 mm) | <b>PMP44-116-50</b>   | 1441-1126 | Steel Wrapped / Teflon<br>50 ft (15 m) Long |
| .035" - .045"<br>(0.9 mm - 1.2 mm) | <b>PMP44-3545-33</b>  | 1441-1127 | Steel Wrapped / Teflon<br>33 ft (10 m) Long |
| 3/64" - 1/16"<br>(1.2 mm - 1.6 mm) | <b>PMPS44-116-33</b>  | 1441-1129 | Steel Wound<br>33 ft (10 m) Long            |
| .035" - .045"<br>(0.9 mm - 1.2 mm) | <b>PMPS44-3545-33</b> | 1441-1131 | Steel Wound<br>33 ft (10 m) Long            |
| 1/16" (1.6 mm)                     | <b>PMP-44FLX-116</b>  | 1644-1095 | Teflon Jump Liner<br>for Flex Tube          |
| 1/16" (1.6 mm)                     | <b>PMP-44PTF-116</b>  | 1644-1096 | Teflon Jump Liner<br>for Rigid Tube         |
| 1/16" (1.6 mm)                     | <b>PMP-44-116</b>     | 1644-1097 | Bronze Jump<br>Liner                        |

## R44 Series & R45 Series Conduit Liners

- Tapered lead in angle on the machined conduit stop making the transition of the welding wire into the MIG gun smoother
- Tin/Zinc plated wire

### CONDUIT LINERS FOR USE WITH STEEL WELDING WIRES

| Wire Size in/mm                           | Part No.          | Stock No. | Description                      | Wire Size in/ mm                   | Part No.          | Stock No. | Description                      |
|-------------------------------------------|-------------------|-----------|----------------------------------|------------------------------------|-------------------|-----------|----------------------------------|
| <b>300 - 450A</b>                         |                   |           |                                  | <b>500 - 650A</b>                  |                   |           |                                  |
| <b>(INCLUDING NO. 5 EURO-KWIK SERIES)</b> |                   |           |                                  | .035" - .045"<br>(0.9 mm - 1.2 mm) | <b>R45-3545-1</b> | 1450-1023 | Steel Wound<br>1 ft (0.3 m) Long |
| .035" - .045"<br>(0.9 mm - 1.2 mm)        | <b>R44-3545-8</b> | 1440-1225 | Steel Wound<br>8 ft (2.4 m) Long | .035" - .045"<br>(0.9 mm - 1.2 mm) | <b>R45-3545-4</b> | 1450-1024 | Steel Wound<br>4 ft (1.2 m) Long |
| .052" - 1/16"<br>(1.3 mm - 1.6 mm)        | <b>R44-116-15</b> | 1440-1231 | Steel Wound<br>15 ft (5 m) Long  | .035" - .045"<br>(0.9 mm - 1.2 mm) | <b>R45-3545-8</b> | 1450-1025 | Steel Wound<br>8 ft (2.4 m) Long |
|                                           |                   |           |                                  | .052" - 1/16"<br>(1.3 mm - 1.6 mm) | <b>R45-116-8</b>  | 1450-1030 | Steel Wound<br>8 ft (2.4 m) Long |
|                                           |                   |           |                                  | .052" - 1/16"<br>(1.3 mm - 1.6 mm) | <b>R45-116-15</b> | 1450-1031 | Steel Wound<br>15 ft (5 m) Long  |

### CONDUIT LINERS FOR USE WITH ALUMINUM WELDING WIRES

| Wire Size in/ mm  | Part No.            | Stock No. | Description                         |
|-------------------|---------------------|-----------|-------------------------------------|
| <b>500 - 650A</b> |                     |           |                                     |
| 1/16" (1.6 mm)    | <b>R45WN-116-15</b> | 1450-1045 | Wire Nylon Wrap<br>15 ft (5 m) Long |

# MIG Guns & Consumables

## WELDSKILL® MIG GUN WS SERIES

### FEATURES & BENEFITS

Tweco®, a leader in the design and manufacture of MIG welding guns and consumable parts, is pleased to introduce an expanded WeldSkill line of innovative, durable guns. These new guns feature a patent-pending design that is easy to maneuver in various welding positions required in small job shops or during light welding.

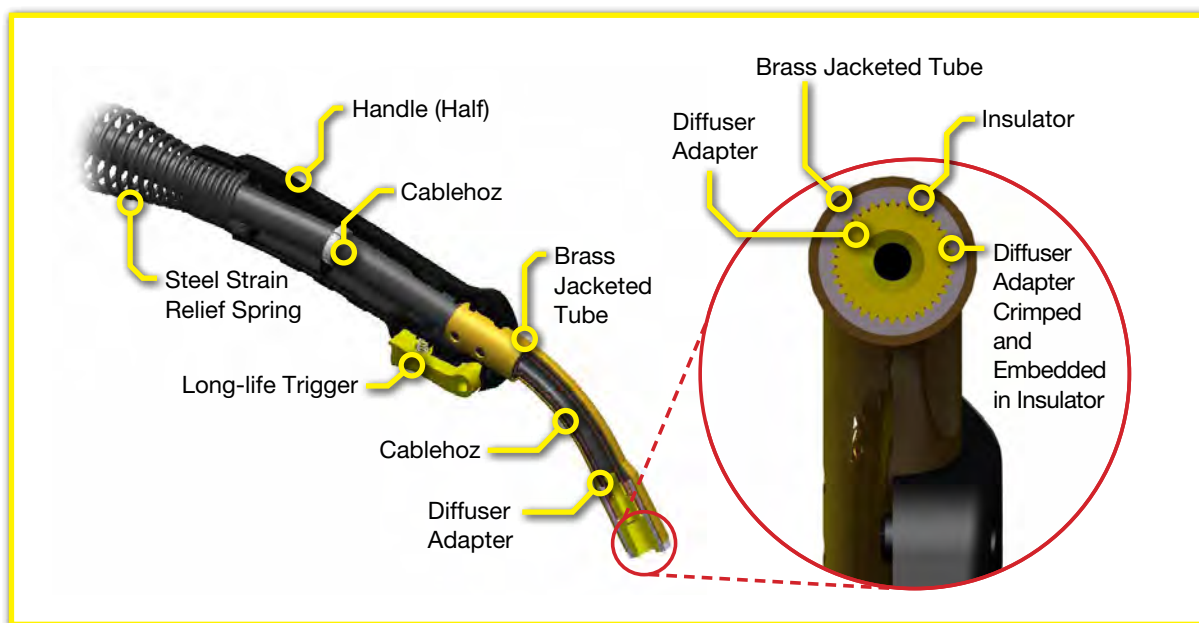
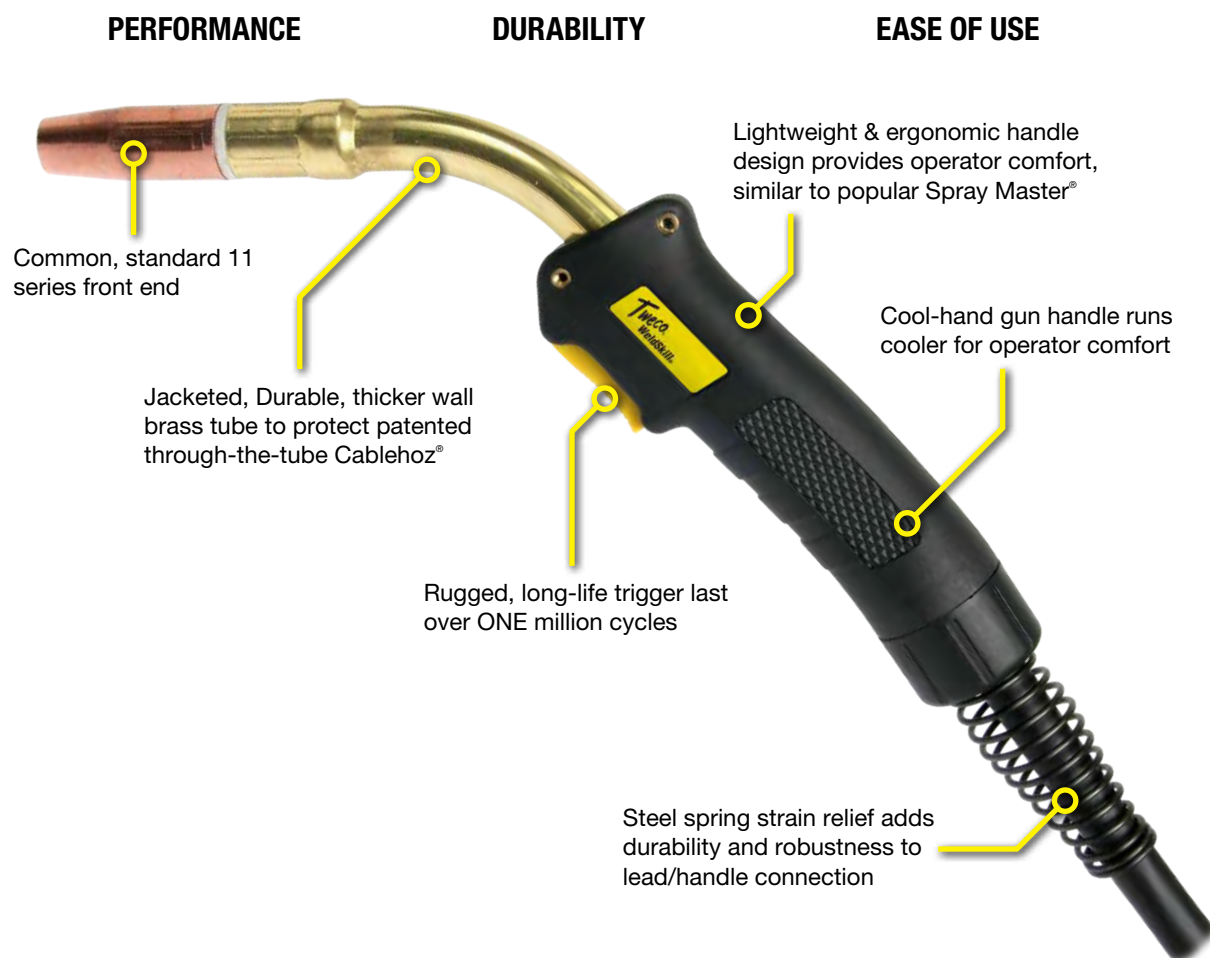
The new 140A, 180A and 220A guns are perfect for farm, garage, hobby/DIY, artistic metal working, job shops, and maintenance and repair applications.

#### The new Tweco guns feature:

- Operator appeal with an ergonomic handle with diamond pattern for better grip
- Long-life trigger tested at over 1.2 million cycles without failure
- Rugged steel spring stain relief for durability and robustness



## WS SERIES HANDLE DESIGN & STYLE



# MIG Guns & Consumables



140A

## WS140 Amp MIG Guns

- 140A air-cooled
- 40% duty cycle – CO<sub>2</sub> gas
- Front & rear spring strain relief

| TWECO® STYLE REAR CONNECTOR* |             |                |           |
|------------------------------|-------------|----------------|-----------|
| Wire Size                    | Length      | Part No.       | Stock No. |
| .035" (0.9 mm)               | 10 ft (3 m) | WS140T-10-3035 | 1017-1302 |

| MILLER® STYLE REAR CONNECTOR |             |               |           |
|------------------------------|-------------|---------------|-----------|
| Wire Size                    | Length      | Part No.      | Stock No. |
| .035" (0.9 mm)               | 10 ft (3 m) | WS14M-10-3035 | 1017-1303 |

| LINCOLN® STYLE REAR CONNECTOR |             |                |           |
|-------------------------------|-------------|----------------|-----------|
| Wire Size                     | Length      | Part No.       | Stock No. |
| .035" (0.9 mm)                | 10 ft (3 m) | WS140L-10-3035 | 1017-1304 |

| HOBART® STYLE REAR CONNECTOR |             |                |           |
|------------------------------|-------------|----------------|-----------|
| Wire Size                    | Length      | Part No.       | Stock No. |
| .035" (0.9 mm)               | 10 ft (3 m) | WS140H-10-3035 | 1017-1312 |

| EURO STYLE REAR CONNECTOR |             |                |           |
|---------------------------|-------------|----------------|-----------|
| Wire Size                 | Length      | Part No.       | Stock No. |
| .035" (0.9 mm)            | 10 ft (3 m) | WS140X-10-3035 | 1017-1305 |

Note: Gun length is measured from the front case to the rear case +/-3".

\* Adapter kits are available to fit Tweco rear connection to most wire feeders.

Conduit Liner – WS42 Series



180A

## WS180 Amp MIG Guns

- 180A air-cooled
- 40% duty cycle – CO<sub>2</sub> gas
- Front & rear spring strain relief

| TWECO STYLE REAR CONNECTOR* |             |                |           |
|-----------------------------|-------------|----------------|-----------|
| Wire Size                   | Length      | Part No.       | Stock No. |
| .035" (0.9 mm)              | 12 ft (4 m) | WS180T-12-3035 | 1017-1306 |

| MILLER STYLE REAR CONNECTOR |             |                |           |
|-----------------------------|-------------|----------------|-----------|
| Wire Size                   | Length      | Part No.       | Stock No. |
| .035" (0.9 mm)              | 12 ft (4 m) | WS180M-12-3035 | 1017-1307 |

| LINCOLN STYLE REAR CONNECTOR |             |                |           |
|------------------------------|-------------|----------------|-----------|
| Wire Size                    | Length      | Part No.       | Stock No. |
| .035" (0.9 mm)               | 12 ft (4 m) | WS180L-12-3035 | 1017-1308 |

| HOBART STYLE REAR CONNECTOR |             |                |           |
|-----------------------------|-------------|----------------|-----------|
| Wire Size                   | Length      | Part No.       | Stock No. |
| .035" (0.9 mm)              | 12 ft (4 m) | WS180H-12-3035 | 1017-1313 |

| EURO STYLE REAR CONNECTOR |             |                |           |
|---------------------------|-------------|----------------|-----------|
| Wire Size                 | Length      | Part No.       | Stock No. |
| .035" (0.9 mm)            | 12 ft (4 m) | WS180X-12-3035 | 1017-1309 |

Note: Gun length is measured from the front case to the rear case +/-3".

\* Adapter kits are available to fit Tweco rear connection to most wire feeders.

Conduit Liner – WS42 Series

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220A

## WS200 Amp MIG Guns

- 220A air-cooled
- 40% duty cycle – CO<sub>2</sub> gas
- Front & rear spring strain relief

### TWECO® STYLE REAR CONNECTOR\*

| Wire Size      | Length      | Part No.       | Stock No. |
|----------------|-------------|----------------|-----------|
| .035" (0.9 mm) | 15 ft (5 m) | WS220T-15-3035 | 1023-1250 |

### HOBART® STYLE REAR CONNECTOR

| Wire Size      | Length      | Part No.       | Stock No. |
|----------------|-------------|----------------|-----------|
| .035" (0.9 mm) | 10 ft (3 m) | WS140H-10-3035 | 1017-1312 |

### MILLER® STYLE REAR CONNECTOR

| Wire Size      | Length      | Part No.       | Stock No. |
|----------------|-------------|----------------|-----------|
| .035" (0.9 mm) | 15 ft (5 m) | WS220M-15-3035 | 1023-1251 |

### EURO STYLE REAR CONNECTOR

| Wire Size      | Length      | Part No.       | Stock No. |
|----------------|-------------|----------------|-----------|
| .035" (0.9 mm) | 15 ft (5 m) | WS220X-15-3035 | 1023-1253 |

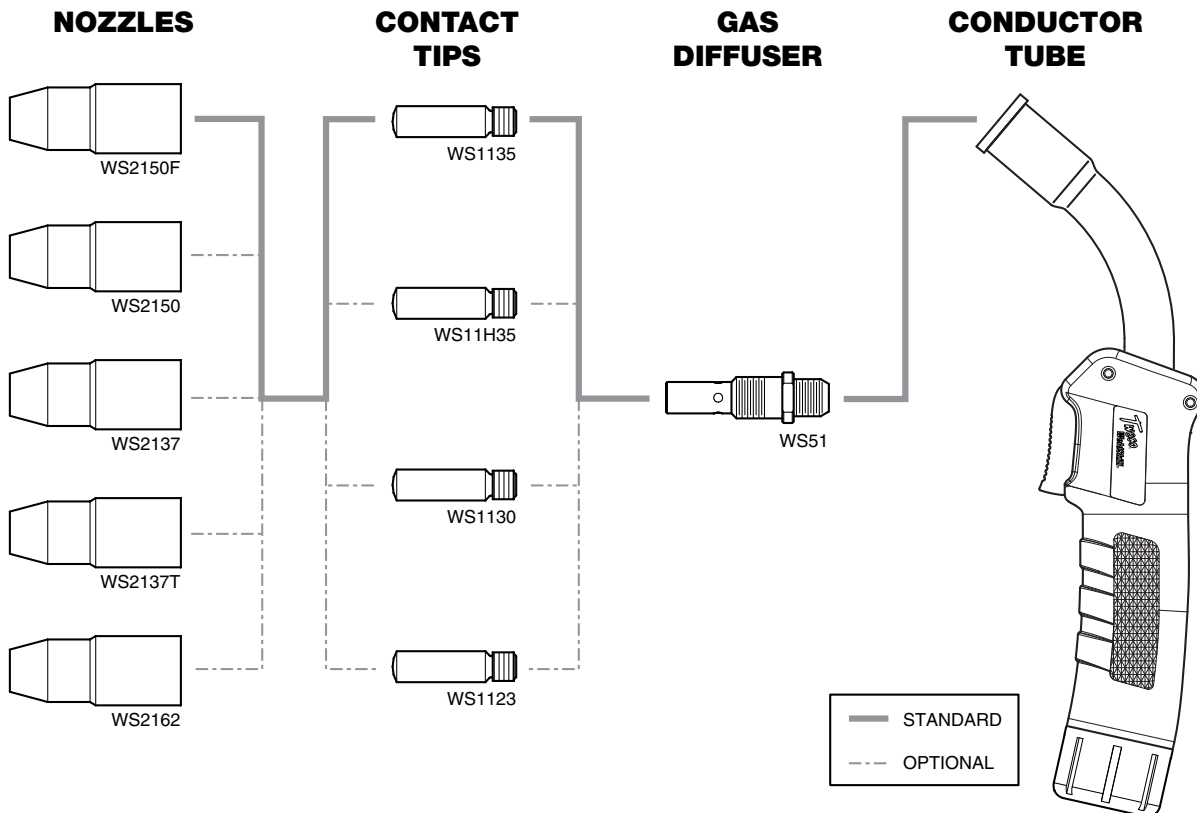
Note: Gun length is measured from the front case to the rear case +/-3".

\* Adapter kits are available to fit Tweco rear connection to most wire feeders.

### LINCOLN® STYLE REAR CONNECTOR

| Wire Size      | Length      | Part No.       | Stock No. |
|----------------|-------------|----------------|-----------|
| .035" (0.9 mm) | 15 ft (5 m) | WS220L-15-3035 | 1023-1252 |

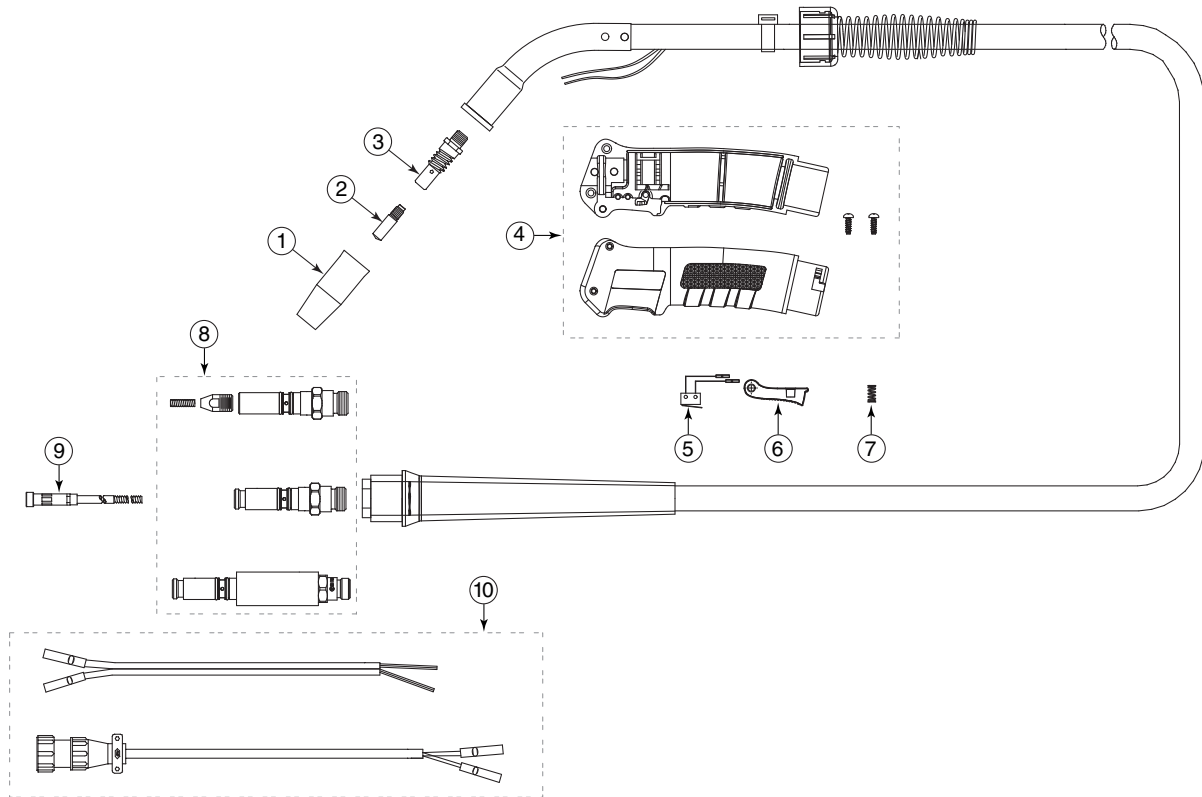
Conduit Liner – WS42 Series



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# MIG Guns & Consumables

## TWECO® WS MIG GUN REPLACEMENT PARTS



| No. | Description                        | Part No.     | Stock No. |
|-----|------------------------------------|--------------|-----------|
| 1   | Nozzle*                            | WS21-50F     | 1210-1346 |
| 2   | Contact Tip*                       | WS11-35      | 1110-1142 |
| 3   | Gas Diffuser*                      | WS51         | 1510-1140 |
| 4   | Handle with Screws (WS140 Series)  | WS80-140     | 2042-2050 |
|     | Handle with Screws (WS180 Series)  | WS80-180     | 2042-2051 |
|     | Handle with Screws (WS220 Series)  | WS80-220     | 2042-2052 |
| 5   | Microswitch with Lead Wires        | WS90         | 2042-2053 |
| 6   | Trigger Lever                      | WS90-LEV     | 2042-2054 |
| 7   | Trigger Lever Spring (pkg. 5 each) | WS90-LEV-S   | 2042-2055 |
| 8   | Rear Connector Plugs (Tweco®)      | 350-174H     | 2035-2110 |
|     | Rear Connector Plugs (Miller®)     | 350-174MH    | 2035-2111 |
|     | Rear Connector Plugs (Lincoln®)    | 350-174HXL   | 2035-2116 |
| 9   | Conduit Assembly*                  | WS42-3035-15 | 1420-1140 |
| 10  | Control Wire (Tweco)               | 35K-350-1    | 2000-2352 |
|     | Control Wire (Miller & Lincoln)    | WM354-M      | 2030-2075 |

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## “NO SHORTCUTS”

It's part discipline, part pride and all passion that fuels Shane 'Cajun' Guidry, a native of New Orleans, Louisiana. "If you take pride in your work, then welding is for you," he says. "Because every weld you make is your signature." Shane's passion for welding runs deeper than your average metalworker.

His work has brought him from Russia to the 40-below temperatures of Alaska. Today he works as an AWS Certified Welding Inspector, where his 'no shortcuts' attitude has made him a reliable team member. "For every weld I inspect, I pretend a member of my family will depend on it," he says.

**SHANE NEEDS EQUIPMENT HE CAN RELY ON. THAT'S WHY HE CHOOSES TWECO®. ABOARD THE U.S.S. NIMITZ HE USED TWECOTONG® ELECTRODE HOLDERS TO REPAIR A WEAPONS ELEVATOR. "THEY'RE INTERCHANGEABLE, DEPENDABLE, AND SAFE," HE SAYS.**

While in Alaska, Shane used Tweco arctic cables on an exploratory drilling site. He said, "Even after dropping them seven stories down, they came up clean and ready to go again."

**SHANE GUIDRY**  
AWS Certified Welding Inspector  
PM Testing Inc.

*Shane carries the torch – will you?*

**THERMADYNE®**, A GLOBAL CUTTING AND WELDING LEADER, joins the American Welding Society in encouraging individuals to practice the art, craftsmanship and professions of welding, metalworking and fabrication. Victor®, Thermal Dynamics®, Thermal Arc®, Arcair®, Tweco®, Stody®, CIGWELD® and TurboTorch® are among the Thermadyne family of brands that you can count on for safety, reliability and quality.

**Tweco®**

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or call Thermadyne Customer Care at 1-800-426-1888

[www.thermadyne.com](http://www.thermadyne.com)



**American Welding Society**  
Sustaining Company Member

# MIG Guns & Consumables



## WeldSkill® 250 Amp MIG Guns

- 250A air-cooled
- 60% duty cycle – CO<sub>2</sub> gas

### TWECO® STYLE REAR CONNECTOR\*

| Wire Size      | Length      | Part No.      | Stock No. |
|----------------|-------------|---------------|-----------|
| .045" (1.2 mm) | 15 ft (5 m) | WM250-15-4045 | 1027-1007 |

### MILLER® STYLE REAR CONNECTOR

| Wire Size      | Length        | Part No.       | Stock No. |
|----------------|---------------|----------------|-----------|
| .045" (1.2 mm) | 10 ft (3 m)   | WM250M-10-4045 | 1027-1030 |
|                | 12 ft (4 m)   | WM250M-12-4045 | 1027-1031 |
|                | 15 ft (5 m)   | WM250M-15-4045 | 1027-1032 |
|                | 25 ft (7.6 m) | WM250M-25-4045 | 1027-1023 |

Part No. MSAK354 (Stock No. 2642-2470) Control wire ass'y furnished.

**Standard Conductor Tube –**  
WM250J-60 (Stock No. 1620-1310) on all guns up to 15 ft (5 m)

**Conduit Liner –** WS42 Series

### LINCOLN® STYLE REAR CONNECTOR\*\*

| Wire Size      | Length      | Part No.       | Stock No. |
|----------------|-------------|----------------|-----------|
| .045" (1.2 mm) | 15 ft (5 m) | WM250L-15-4045 | 1027-1082 |

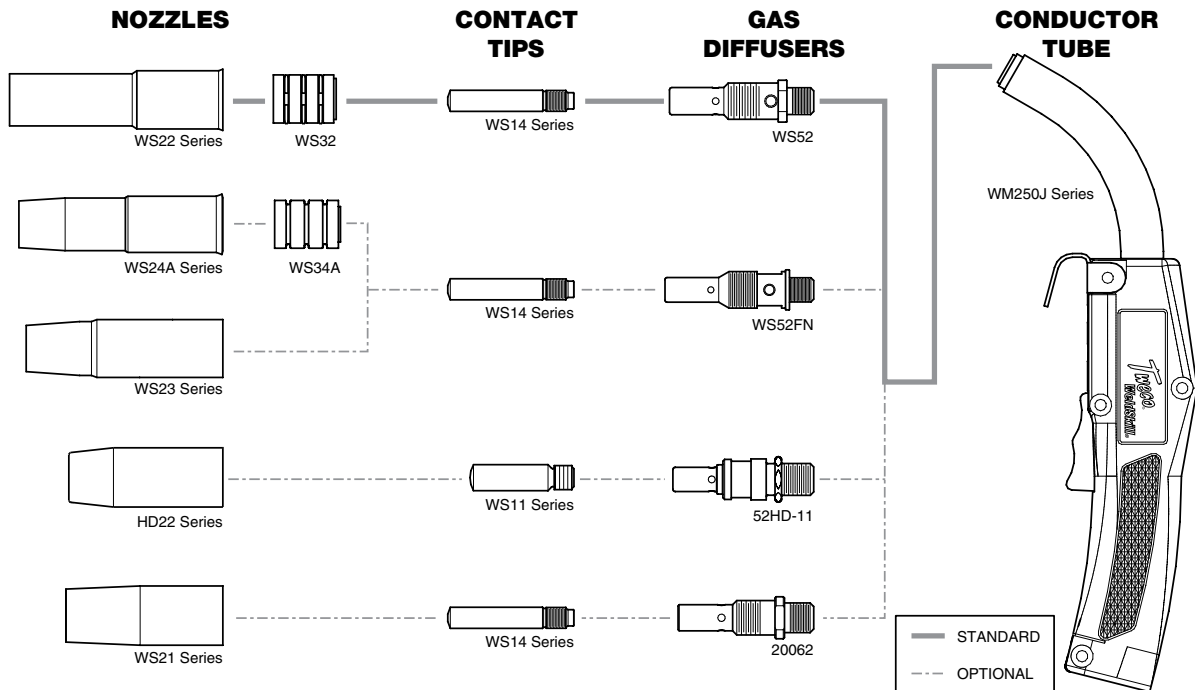
Part No. LAK354 (Stock No. 2642-2450) Control wire ass'y furnished.

### EURO STYLE REAR CONNECTOR

| Wire Size      | Length      | Part No.       | Stock No. |
|----------------|-------------|----------------|-----------|
| .045" (1.2 mm) | 15 ft (5 m) | WM250X-15-4045 | 1027-1057 |

Note: Gun length is measured from the front case to the rear case +/-3".  
\* Adapter kits are available to fit Tweco rear connection to most wire feeders.

\*\* Fits Lincoln LN7, 8, 9, SP200 - **SOME LINCOLN WIRE FEEDERS ARE ASSEMBLED WITH THEIR K1500-2 GUN RECEIVING BUSHING THAT WILL ACCEPT TWECO STYLE MIG GUNS DIRECT FROM THE FACTORY. CONTROL WIRE PART NO. MS354-DSLJ (STOCK NO. 2060-2137) MUST BE ORDERED SEPARATELY.**



Refer to pages 122-125 for more complete detail on front end options. Refer to pages 120-121 for parts breakdown information.

Miller is a registered trademark of Illinois Tool Works, Inc. Lincoln is a registered trademark of Lincoln Electric Co. The aforementioned registered trademarks are in no way affiliated with Tweco Products, Inc. Tweco is registered trademark of Thermadyne Industries, Inc.



## WeldSkill® 400 Amp MIG Guns

- 400A air-cooled
- 60% duty cycle – CO<sub>2</sub> gas

| TWECO® STYLE REAR CONNECTOR* |               |               |           |
|------------------------------|---------------|---------------|-----------|
| Wire Size                    | Length        | Part No.      | Stock No. |
| .045" (1.2 mm)               | 12 ft (4 m)   | WM400-12-3545 | 1047-1001 |
|                              | 15 ft (5 m)   | WM400-15-3545 | 1047-1002 |
| 1/16" (1.6 mm)               | 15 ft (5 m)   | WM400-15-116  | 1047-1007 |
|                              | 25 ft (7.6 m) | WM400-25-116  | 1047-1016 |

| MILLER® STYLE REAR CONNECTOR |               |                |           |
|------------------------------|---------------|----------------|-----------|
| Wire Size                    | Length        | Part No.       | Stock No. |
| .045" (1.2 mm)               | 15 ft (5 m)   | WM400M-15-3545 | 1047-1027 |
|                              | 12 ft (4 m)   | WM400M-12-116  | 1047-1031 |
| 1/16" (1.6 mm)               | 15 ft (5 m)   | WM400M-15-116  | 1047-1032 |
|                              | 25 ft (7.6 m) | WM400M-25-116  | 1047-1019 |

Part No. MSAK354 (Stock No. 2642-2470) Control wire ass'y furnished

**Standard Conductor Tube –**  
WM400J-60 (Stock No. 1640-1305) on all guns up to 15 ft (5 m)

**Conduit Liner –** WS44 Series

| LINCOLN® STYLE REAR CONNECTOR** |               |                |           |
|---------------------------------|---------------|----------------|-----------|
| Wire Size                       | Length        | Part No.       | Stock No. |
| .045" (1.2 mm)                  | 15 ft (5 m)   | WM400L-15-3545 | 1047-1077 |
|                                 | 15 ft (5 m)   | WM400L-15-116  | 1047-1082 |
| 1/16" (1.6 mm)                  | 25 ft (7.6 m) | WM400L-25-116  | 1047-1022 |

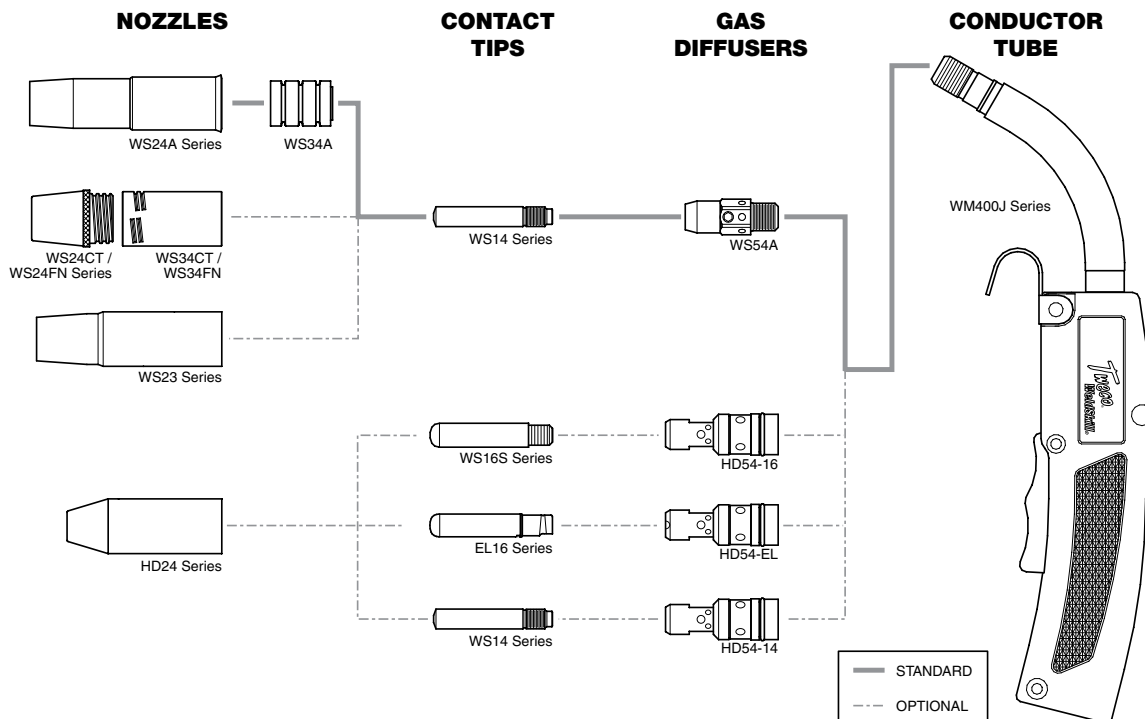
Part No. LAK354 (Stock No. 2642-2450) Control wire ass'y furnished

| EURO STYLE REAR CONNECTOR |             |               |           |
|---------------------------|-------------|---------------|-----------|
| Wire Size                 | Length      | Part No.      | Stock No. |
| 1/16" (1.6 mm)            | 15 ft (5 m) | WM400X-15-116 | 1047-1057 |

Note: Gun length is measured from the front case to the rear case +/-3". Use Nozzle Insulator Part No. WS34A.

\* Adapter kits are available to fit Tweco rear connection to most wire feeders.

\*\* Fits Lincoln LN7, 8, 9, SP200 - **SOME LINCOLN WIRE FEEDERS ARE ASSEMBLED WITH THEIR K1500-2 GUN RECEIVING BUSHING THAT WILL ACCEPT TWECO STYLE MIG GUNS DIRECT FROM THE FACTORY. CONTROL WIRE PART NO. MS354-DSLJ (STOCK NO. 2060-2137) MUST BE ORDERED SEPARATELY.**



Refer to pages 122-125 for more complete detail on front end options. Refer to pages 120-121 for parts breakdown information.

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# MIG Guns & Consumables



## WeldSkill® 500 Amp MIG Guns

- 500A air-cooled
- 60% duty cycle – CO<sub>2</sub> gas
- Metal jacketed conductor tube – 60° @ 5" Radius
- Front & rear spring strain relief

### TWECO® STYLE REAR CONNECTOR\*

| Wire Size      | Length      | Part No.            | Stock No. |
|----------------|-------------|---------------------|-----------|
| 1/16" (1.6 mm) | 15 ft (5 m) | <b>WM500-15-116</b> | 1057-1007 |

Note: Gun length is measured from the front case to the rear case +/-3". Use Nozzle Insulator Part No. WS35CT.

#### Standard Conductor Tube –

WM500J-60 (Stock No. 1650-1120) on all guns up to 15 ft (5 m)

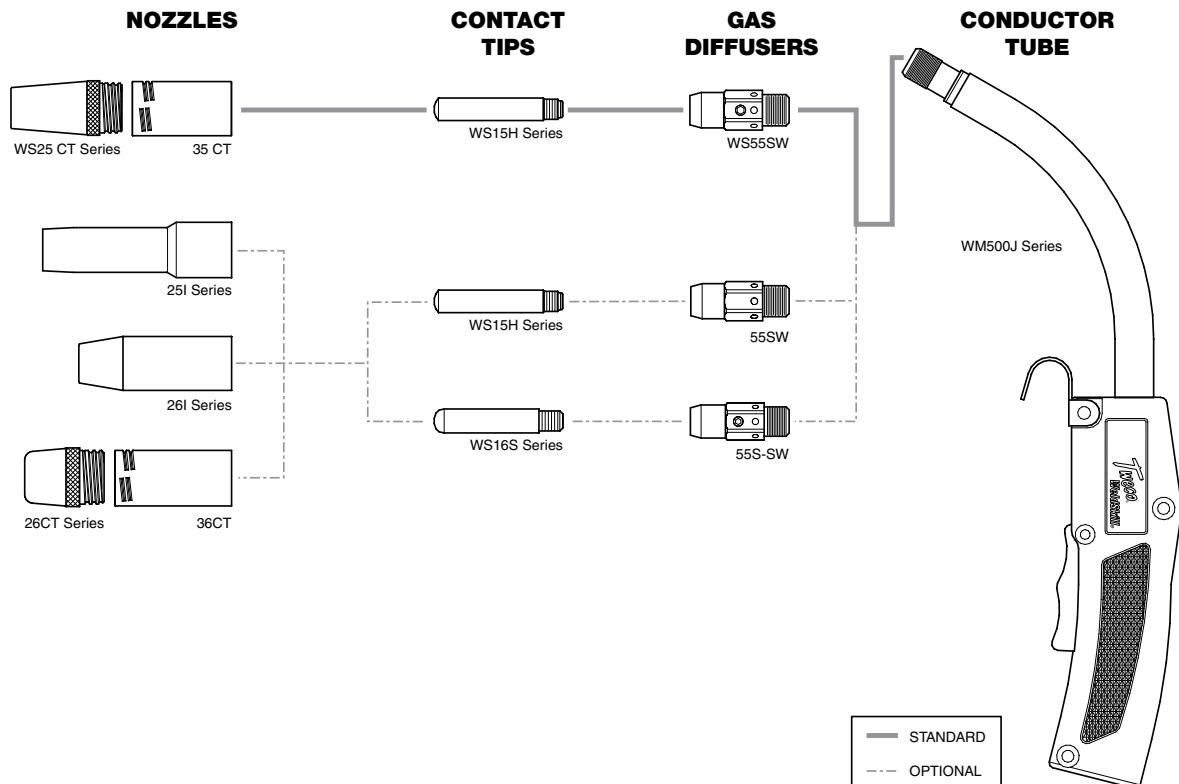
Conduit Liner – WS45 Series

### MILLER® STYLE REAR CONNECTOR

| Wire Size      | Length      | Part No.             | Stock No. |
|----------------|-------------|----------------------|-----------|
| 1/16" (1.6 mm) | 15 ft (5 m) | <b>WM500M-15-116</b> | 1057-1032 |

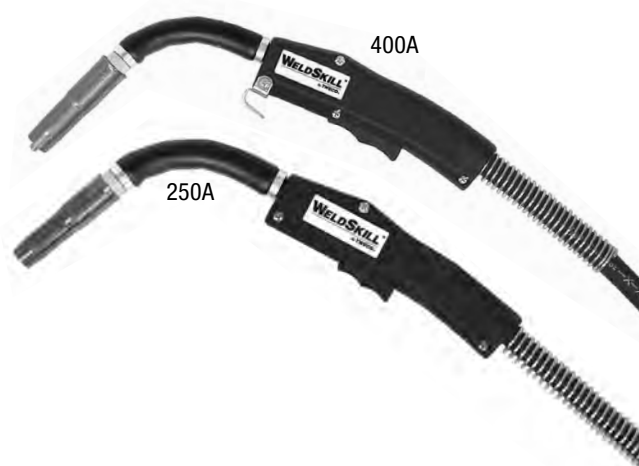
Note: Gun length is measured from the front case to the rear case +/-3". Use Nozzle Insulator Part No. WS35CT.

\* Adapter kits are available to fit Tweco rear connection to most wire feeders.



Refer to pages 122-125 for more complete detail on front end options. Refer to pages 120-121 for parts breakdown information.

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## Tweco® WeldSkill® MIG Guns with “Knucklehead®” Flexible Conductor Tubes

- Improve weld quality
- Increase productivity
- Decrease welder fatigue
- Conductor tubes proven to last longer than any design on the market today

### Tweco WeldSkill “WM” Series

| TWECO® STYLE REAR CONNECTOR* |             |                 |           |     |                                 |
|------------------------------|-------------|-----------------|-----------|-----|---------------------------------|
| Wire Size                    | Length      | Part No.        | Stock No. | Amp | Knucklehead Conductor Tube      |
| .045" (1.2 mm)               | 15 ft (5 m) | WM250-15-4045K4 | 1027-1060 | 250 | 62SFLX480 (Stock No. 1620-1106) |
| 1/16" (1.6 mm)               | 15 ft (5 m) | WM400-15-116K4  | 1040-1170 | 400 | 64SFLX480 (Stock No. 1640-1113) |

Note: Gun length is measured from the front case to the rear case +/-3".

| MILLER® STYLE REAR CONNECTOR |             |                  |           |     |                                 |
|------------------------------|-------------|------------------|-----------|-----|---------------------------------|
| Wire Size                    | Length      | Part No.         | Stock No. | Amp | Knucklehead Conductor Tube      |
| .045" (1.2 mm)               | 15 ft (5 m) | WM250M-15-4045K4 | 1027-1061 | 250 | 62SFLX480 (Stock No. 1620-1106) |
| 1/16" (1.6 mm)               | 15 ft (5 m) | WM400M-15-116K4  | 1040-1171 | 400 | 64SFLX480 (Stock No. 1640-1113) |

Note: Gun length is measured from the front case to the rear case +/-3".

| LINCOLN® STYLE REAR CONNECTOR** |             |                 |           |     |                                 |
|---------------------------------|-------------|-----------------|-----------|-----|---------------------------------|
| Wire Size                       | Length      | Part No.        | Stock No. | Amp | Knucklehead Conductor Tube      |
| 1/16" (1.6 mm)                  | 15 ft (5 m) | WM400L-15-116K4 | 1040-1172 | 400 | 64SFLX480 (Stock No. 1640-1113) |

Note: Gun length is measured from the front case to the rear case +/-3".

\* Adapter kits are available to fit Tweco rear connection to most wire feeders.

\*\* Fits Lincoln LN7, 8, 9, SP200 - Some Lincoln wire feeders are assembled with their K1500-2 gun receiving bushing that will accept Tweco style MIG guns direct from the factory. Control wire Part No. MS354-DSLJ (Stock No. 2060-2137) must be ordered separately.

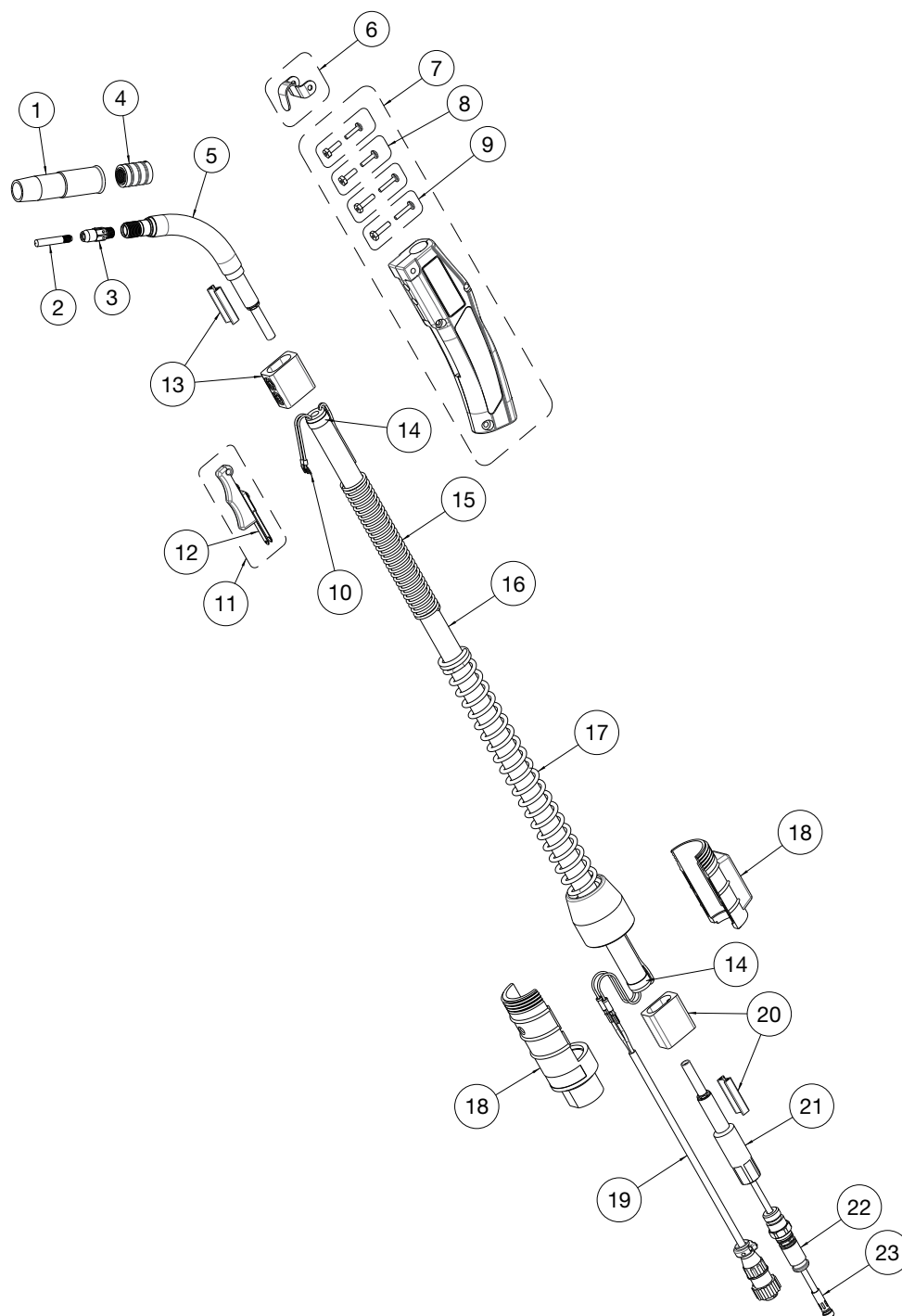
See pages 104-105 for more information on Knucklehead Conductor Tubes.

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# MIG Guns & Consumables

## TWECO® WELDSKILL® REPLACEMENT PARTS





| No. | Description                               | (PART NO. / STOCK NO.) |                      |                      |
|-----|-------------------------------------------|------------------------|----------------------|----------------------|
|     |                                           | 250 Amp                | 400 Amp              | 500 Amp              |
| 1   | Nozzles                                   | Refer to Pages 123-124 |                      |                      |
| 2   | Contact Tips                              | Refer to Pages 122-123 |                      |                      |
| 3   | Gas Diffusers                             | Refer to Page 122      |                      |                      |
| 4   | Nozzle Insulators                         | Refer to Pages 123-124 |                      |                      |
| 5   | Conductor Tubes                           | Refer to Page 122      |                      |                      |
| 6   | Gun Hanger                                | 152<br>2020-2152       |                      | WM155<br>2050-2095   |
| 7   | Handle Assembly                           | WM1-80<br>2042-2029    | WM4-80<br>2042-2031  | WM5-80<br>2042-2032  |
| 8   | Binder Post & Screw -<br>(2 ea. Required) | 122FMS<br>2020-2123    |                      | N/A                  |
|     | Binder Post & Screw -<br>(1 ea. Required) | N/A                    |                      | 122FMS<br>2020-2123  |
|     | Binder Post & Screw -<br>(1 ea. Required) | N/A                    |                      | 124FMS<br>2040-2125  |
| 9   | Binder Post & Screw -<br>(2 ea. Required) | 122FM<br>2020-2122     |                      | 124FM<br>2040-2124   |
| 10  | Trigger Control Wire Terminal<br>(2 ea.)  | 244DS<br>2040-2245     | 244<br>2040-2244     |                      |
| 11  | Trigger Assembly                          | WM91<br>2010-2095      | WM92<br>2020-2096    |                      |
| 12  | Trigger Blades                            | 91C<br>2010-2093       | 92C<br>2020-2094     |                      |
| 13  | Front Cable Connector                     | WM102<br>2020-2107     | 104<br>2040-2104     |                      |
| 14  | Cable Clamp                               | 136<br>2060-2690       |                      |                      |
| 15  | Front Strain Relief Spring                | WM2SSR<br>2020-2134    | WM4SSR<br>2040-2141  | WM5SSR<br>2050-2096  |
| 16  | Cablehoz®                                 | 200<br>1720-2100       | 400<br>1740-2100     | 500<br>1750-2100     |
| 17  | Rear Strain Relief Spring                 | 235RSSR<br>2060-2035   |                      |                      |
| 18  | Rear Case (Direct Plug)                   | R6RC<br>2060-2040      |                      |                      |
|     | Rear Case (Euro Style)                    | X6RC<br>2060-2006      |                      |                      |
| 19  | Control Wire (Standard)                   | MS354-DSM<br>2060-2140 |                      |                      |
|     | Control Wire (Dual Schedule)              | 194DS<br>2040-2195     |                      |                      |
| 20  | Rear Cable Connector (Direct Plug)        | 104<br>2040-2104       | N/A                  | N/A                  |
|     | Rear Cable Connector (Euro Style)         | 172X-M<br>2020-2181    | 174X-M<br>2040-2181  | 176X-M<br>2060-2181  |
| 21  | Adapter (Direct Plug)                     | M170-2H<br>2020-2165   | M170-4H<br>2020-2166 | M170-5H<br>2020-2167 |
| 22  | Connector Plug                            | Refer to Page 86       |                      |                      |
| 23  | Conduit Liners                            | Refer to Page 125      |                      |                      |

| WELDSKILL® CONDUCTOR TUBES |                        |                        |                       |                     |                                             |        |       |
|----------------------------|------------------------|------------------------|-----------------------|---------------------|---------------------------------------------|--------|-------|
| Series                     | Part No.               | Stock No.              | Outer Jacket Material | Back End Threads    | Front End Threads                           | Radius |       |
|                            |                        |                        |                       |                     |                                             | 60     | 45    |
| WELDSKILL STANDARD 150     | WM150J-60              | 1610-1116              | Metal                 | I.D. 3/8"-24 UNF-2B | I.D. M10 x 1.5-6H                           | 2.25"  | 2.25" |
|                            | WM150J-45              | 1610-1115              |                       |                     |                                             |        |       |
|                            | WM150-60               | 1610-1112              | Neoprene Rubber       | I.D. 3/8"-24 UNF-2B | I.D. M10 x 1.5-6H                           | 2"     | 2"    |
|                            | WM150-80<br>WM150-180  | 1610-1113<br>1610-1114 |                       |                     |                                             |        |       |
| WELDSKILL STANDARD 250     | WM250J-60              | 1620-1310              | Metal                 | I.D. 3/8"-24 UNF-2B | 3/8"-24 NF-2B                               | 3"     | 3"    |
| WELDSKILL STANDARD 400     | WM400J-60<br>WM400J-45 | 1640-1305<br>1640-1306 | Metal                 | I.D. 3/8"-24 UNF-2B | I.D. 3/8"-24 UNF-2B<br>O.D. 9/16"-18UNF-2A  | 3"     | 3"    |
| WELDSKILL STANDARD 500     | WM500J-60              | 1650-1120              | Metal                 | I.D. 7/16"-20UNF-2B | I.D. 7/16"-20 UNF-2B<br>O.D. 5/8"-18 UNF-2A | 5"     | 5"    |

| AIR-COOLED STANDARD GAS DIFFUSERS |           |          |              |                              |
|-----------------------------------|-----------|----------|--------------|------------------------------|
| Part No.                          | Stock No. | Material | Contact Tip  | Nozzle                       |
| MINI-MIG SERIES                   |           |          |              |                              |
| WS35-50                           | 1500-1140 | Brass    | WS11 Series  | WS21 Series                  |
| WM150 SERIES                      |           |          |              |                              |
| WS51                              | 1510-1140 | Brass    | WS11 Series  | WS21 Series                  |
| WM250 SERIES                      |           |          |              |                              |
| WS52                              | 1520-1140 | Brass    | WS14 Series  | WS22 Series                  |
| WS52FN                            | 1520-1141 | Brass    | WS14 Series  | WS24A, WS23 Series           |
| WM400 SERIES                      |           |          |              |                              |
| WS54A                             | 1540-1145 | Brass    | WS14 Series  | WS24A, WS24CT, & WS23 Series |
| WM500 SERIES                      |           |          |              |                              |
| WS55SW (1)                        | 1550-1140 | Copper   | WS15H Series | WS25CT Series                |
| WS55H (2)                         | 1550-1141 | Copper   | WS15H Series | WS25CT Series                |

Note: (1) - Use with WS45-3545, WS45-116, and WS45N-3545 Series Conduit Liners  
 (2) - Use with WS45H-332, 45H-764, and 45-18 Series Conduit Liners

| STANDARD THREADED STYLE CONTACT TIPS - Standard Alloy Copper Tubing                             |                  |          |           |            |           |           |           |
|-------------------------------------------------------------------------------------------------|------------------|----------|-----------|------------|-----------|-----------|-----------|
|                                                                                                 |                  | Standard |           | Heavy-Duty |           | Tapered   |           |
| Wire Size (in/mm)                                                                               | Tip I.D. (in/mm) | Part No. | Stock No. | Part No.   | Stock No. | Part No.  | Stock No. |
| WS11, WS11H, & WS11T SERIES 0.25" (6.35 mm) O.D. - M6 X 1.0 THREADS - 1.00" (25.4 mm) O.A.L.    |                  |          |           |            |           |           |           |
| .023" (0.6 mm)                                                                                  | .031" (0.79 mm)  | WS11-23  | 1110-1140 |            |           | WS11T-23  | 1110-1340 |
| .030" (0.8 mm)                                                                                  | .038" (0.97 mm)  | WS11-30  | 1110-1141 |            |           | WS11T-30  | 1110-1341 |
| .035" (0.9 mm)                                                                                  | .044" (1.12 mm)  | WS11-35  | 1110-1142 |            |           | WS11T-35  | 1110-1342 |
| .045" (1.2 mm)                                                                                  | .054" (1.37 mm)  | WS11-45  | 1110-1144 | WS11H45    | 1110-1244 | WS11T-45  | 1110-1344 |
| WS14, WS14H, & WS14T SERIES 0.25" (6.35 mm) O.D. - .250-28 UNF THREADS - 1.50" (38.1 mm) O.A.L. |                  |          |           |            |           |           |           |
| .030" (0.8 mm)                                                                                  | .038" (0.97 mm)  | WS14-30  | 1140-1166 |            |           | WS14T-30  | 1140-1341 |
| .035" (0.9 mm)                                                                                  | .044" (1.12 mm)  | WS14-35  | 1140-1167 | WS14H-35   | 1140-1242 | WS14T35   | 1140-1342 |
| .040" (1.0 mm)                                                                                  | .048" (1.22 mm)  | WS14-40  | 1140-1168 | WS14H-40   | 1140-1243 |           |           |
| .045" (1.2 mm)                                                                                  | .054" (1.37 mm)  | WS14-45  | 1140-1169 | WS14H-45   | 1140-1244 | WS14T-45  | 1140-1344 |
| .052" (1.3 mm)                                                                                  | .064" (1.65 mm)  | WS14-52  | 1140-1170 | WS14H-52   | 1140-1245 | WS14T-52  | 1140-1345 |
| 1/16" (1.6 mm)                                                                                  | .073" (1.85 mm)  | WS14-116 | 1140-1171 | WS14H-116  | 1140-1246 | WS14T-116 | 1140-1346 |
| 5/64" (2.0 mm)                                                                                  | .090" (2.29 mm)  | WS14-564 | 1140-1174 | WS14H-564  | 1140-1247 |           |           |
| 3/64" AL (1.2 mm)                                                                               | .059" (1.50 mm)  | WS14A364 | 1140-1172 | WS14AH-364 | 1140-1248 |           |           |

| STANDARD THREADED STYLE CONTACT TIPS - Standard Alloy Copper Tubing                  |                  |           |           |             |           |           |           |
|--------------------------------------------------------------------------------------|------------------|-----------|-----------|-------------|-----------|-----------|-----------|
|                                                                                      |                  | Standard  |           | Heavy-Duty  |           | Tapered   |           |
| Wire Size (in/mm)                                                                    | Tip I.D. (in/mm) | Part No.  | Stock No. | Part No.    | Stock No. | Part No.  | Stock No. |
| WS15H SERIES 0.345" (8.8 mm) O.D. - .3125-24 UNF THREADS - 1.970"(50 mm) O.A.L.      |                  |           |           |             |           |           |           |
| WS15HFC SERIES 0.345" (8.8 mm) O.D. - .3125-24 UNF THREADS - 1.590" (40.4 mm) O.A.L. |                  |           |           |             |           |           |           |
| .035" (0.9 mm)                                                                       | .044" (1.12 mm)  | WS15H-35  | 1150-1230 |             |           |           |           |
| .045" (1.2 mm)                                                                       | .054" (1.37 mm)  | WS15H-45  | 1150-1232 |             |           |           |           |
| 1/16" (1.6 mm)                                                                       | .073" (1.85 mm)  | WS15H-116 | 1150-1234 | WS15HFC-116 | 1150-1268 |           |           |
| 5/64" (2.0 mm)                                                                       | .090" (2.29 mm)  | WS15H-564 | 1150-1235 |             |           |           |           |
| 3/32" (2.4 mm)                                                                       | .106" (2.67 mm)  | WS15H-332 | 1150-1238 |             |           |           |           |
| 7/64" (2.8 mm)                                                                       | .120" (3.05 mm)  | WS15H-764 | 1150-1237 |             |           |           |           |
| 16S & 16ST SERIES 0.375" (9.5 mm) O.D. - M8 X 1.25 THREADS - 1.50" (38.1 mm) O.A.L.  |                  |           |           |             |           |           |           |
| .035" (0.9 mm)                                                                       | .044" (1.12 mm)  | WS16S-35  | 1160-1425 |             |           | WS16ST-35 | 1160-1440 |
| .045" (1.2 mm)                                                                       | .054" (1.37 mm)  | WS16S-45  | 1160-1426 |             |           | WS16ST-45 | 1160-1441 |
| .052" (1.3 mm)                                                                       | .064" (1.65 mm)  | WS16S-52  | 1160-1427 |             |           |           |           |
| 1/16" (1.6 mm)                                                                       | .073" (1.85 mm)  | WS16S-116 | 1160-1428 |             |           | WS16ST-35 | 1160-1443 |
| 5/64" (2.0 mm)                                                                       | .090" (2.29 mm)  | WS16S-564 | 1160-1429 |             |           |           |           |

| AIR-COOLED STANDARD NOZZLES & NOZZLE INSULATORS            |                       |                  |           |                 |                                 |
|------------------------------------------------------------|-----------------------|------------------|-----------|-----------------|---------------------------------|
| Nozzle Style                                               | Bore Diameter (in/mm) | Part No.         | Stock No. | Nozzle Design   | Nozzle/Contact Tip Relationship |
| <b>25CT SERIES</b> COURSE THREAD NOZZLE - 145 ALLOY COPPER |                       |                  |           |                 |                                 |
| Thread-On (A)                                              | 1/2" (12.7 mm)        | <b>WS25CT-50</b> | 1250-1439 | <b>Standard</b> | 1/8" (3.2 mm) Tip Recess        |
|                                                            | 5/8" (15.9 mm)        | <b>WS25CT-62</b> | 1250-1440 | <b>Standard</b> | 1/8" (3.2 mm) Tip Recess        |
|                                                            | 3/4" (19.5 mm)        | <b>WS25CT-75</b> | 1250-1441 | <b>Standard</b> | 1/8" (3.2 mm) Tip Recess        |

Note: (A) - Use with Nozzle Insulator Part No. WS35CT (Stock No. 1350-1425)

| AIR-COOLED STANDARD & HEAVY-DUTY NOZZLES & NOZZLE INSULATORS                                    |                       |            |           |                         |                                            |
|-------------------------------------------------------------------------------------------------|-----------------------|------------|-----------|-------------------------|--------------------------------------------|
| Nozzle Style                                                                                    | Bore Diameter (in/mm) | Part No.   | Stock No. | Nozzle Design           | Nozzle/Contact Tip Relationship            |
| WS21 SERIES 3-PIECE NOZZLE DESIGN - STANDARD ALLOY COPPER - 0.750" (19.05 mm) OUTSIDE DIAMETER  |                       |            |           |                         |                                            |
| Thread-On                                                                                       | 3/8" (9.5 mm)         | WS21-37    | 1210-1340 | Standard (1)            | 1/8" - 5/32" (3.2 mm - 3.97 mm) Tip Recess |
|                                                                                                 | 3/8" (9.5 mm)         | WS21T-37   | 1210-1343 | Tapered (1)             | 1/8" - 5/32" (3.2 mm - 3.97 mm) Tip Recess |
|                                                                                                 | 1/2" (12.7 mm)        | WS21-50F   | 1210-1346 | Standard (1)            | Flush To 1/16" (1.6 mm) Tip Recess         |
|                                                                                                 | 1/2" (12.7 mm)        | WS21-50    | 1210-1341 | Standard (1)            | 1/8" - 5/32" (3.2 mm - 3.97 mm) Tip Recess |
|                                                                                                 | 5/8" (15.9 mm)        | WS21-62    | 1210-1342 | Standard (1)            | 1/8" - 5/32" (3.2 mm - 3.97 mm) Tip Recess |
| WS22 SERIES FORMED NOZZLE - STANDARD ALLOY COPPER - 0.750" (19.05 mm) OUTSIDE DIAMETER          |                       |            |           |                         |                                            |
| Thread-On                                                                                       | 3/8" (9.5 mm)         | WS22-37SS  | 1220-1345 | Standard Short Stop (2) | Adjustable<br>Recess To Protruding         |
|                                                                                                 | 3/8" (9.5 mm)         | WS22T-37SS | 1220-1336 | Standard Short Stop (2) |                                            |
|                                                                                                 | 1/2" (12.7 mm)        | WS22-50    | 1220-1341 | Standard                |                                            |
|                                                                                                 | 1/2" (12.7 mm)        | WS22-50SS  | 1220-1346 | Standard Short Stop (2) |                                            |
|                                                                                                 | 5/8" (15.9 mm)        | WS22-62    | 1220-1342 | Standard                |                                            |
|                                                                                                 | 5/8" (15.9 mm)        | WS22-62SS  | 1220-1347 | Standard Short Stop (2) |                                            |
| WSHD22 SERIES 3-PIECE NOZZLE DESIGN - STANDARD ALLOY COPPER - 0.875" (22.2 mm) OUTSIDE DIAMETER |                       |            |           |                         |                                            |
| Slip-On (B)                                                                                     | 1/2" (12.7 mm)        | WSHD22-50  | 1220-1330 | Standard (1)            | 1/8" - 5/32" (3.2 mm - 3.97 mm) Tip Recess |

Note: (A) - Use with Nozzle Insulator Part No. WS32 (Stock No. 1320-1125)

(1) - Self Insulated Nozzles

(2) - Flush to 1/8" (3.2 mm) Tip Recess

# MIG Guns & Consumables

## AIR-COOLED STANDARD & HEAVY-DUTY NOZZLES & NOZZLE INSULATORS

| Nozzle Style                                                                                   | Bore Diameter (in/mm) | Part No.           | Stock No. | Nozzle Design                  | Nozzle/Contact Tip Relationship        |
|------------------------------------------------------------------------------------------------|-----------------------|--------------------|-----------|--------------------------------|----------------------------------------|
| <b>WS24A SERIES FORMED NOZZLE - STANDARD ALLOY COPPER - 0.750" (19.05 mm) OUTSIDE DIAMETER</b> |                       |                    |           |                                |                                        |
| Slip-On (A)                                                                                    | 3/8" (9.5 mm)         | <b>WS24A-37SS</b>  | 1240-1559 | <b>Standard Short Stop (1)</b> | 1/8" (3.2 mm) Tip Recess               |
|                                                                                                | 1/2" (12.7 mm)        | <b>WS24A-50</b>    | 1240-1555 | <b>Standard</b>                | Adjustable Tip Recess - Tip Protruding |
|                                                                                                | 1/2" (12.7 mm)        | <b>WS24A-50SS</b>  | 1240-1560 | <b>Standard Short Stop (1)</b> | 1/8" (3.2 mm) Tip Recess               |
|                                                                                                | 5/8" (15.9 mm)        | <b>WS24A-62</b>    | 1240-1556 | <b>Standard</b>                | Adjustable Tip Recess - Tip Protruding |
|                                                                                                | 5/8" (15.9 mm)        | <b>WS24A-62SS</b>  | 1240-1561 | <b>Standard Short Stop (1)</b> | 1/8" (3.2 mm) Tip Recess               |
|                                                                                                | 5/8" (15.9 mm)        | <b>WS24AH-62SS</b> | 1240-1566 | <b>Standard Short Stop (1)</b> | 1/8" (3.2 mm) Tip Recess               |
|                                                                                                | 3/4" (19.5 mm)        | <b>WS24A-75</b>    | 1240-1557 | <b>Standard</b>                | Adjustable Tip Recess - Tip Protruding |
| <b>WS24CT SERIES COURSE THREAD NOZZLE - 145 ALLOY COPPER</b>                                   |                       |                    |           |                                |                                        |
| Thread-On (B)                                                                                  | 1/2" (12.7 mm)        | <b>WS24CT-50S</b>  | 1240-1580 | <b>Standard Short Stop (1)</b> | 5/32" (3.97 mm) Tip Recess             |
|                                                                                                | 5/8" (15.9 mm)        | <b>WS24CT-62S</b>  | 1240-1581 | <b>Standard Short Stop (1)</b> | 5/32" (3.97 mm) Tip Recess             |
|                                                                                                | 5/8" (15.9 mm)        | <b>WS24CT-62R</b>  | 1240-1591 | <b>Tapered</b>                 | 1/2" (12.7 mm) Tip Recess              |
|                                                                                                | 3/4" (19.5 mm)        | <b>WS24CT-75S</b>  | 1240-1582 | <b>Standard Short Stop (1)</b> | 5/32" (3.97 mm) Tip Recess             |
| <b>WS24FN SERIES FINE THREAD NOZZLE - 145 ALLOY COPPER</b>                                     |                       |                    |           |                                |                                        |
| Thread-On (C)                                                                                  | 1/2" (12.7 mm)        | <b>WS24FN-50S</b>  | 1240-1715 | <b>Standard Short Stop (1)</b> | 5/32" (3.97 mm) Tip Recess             |
|                                                                                                | 5/8" (15.9 mm)        | <b>WS24FN-62S</b>  | 1240-1727 | <b>Standard Short Stop (1)</b> | 5/32" (3.97 mm) Tip Recess             |

Note: (A) - Use with Nozzle Insulator Part No. WS34A (Stock No. 1340-1125)  
 (B) - Use with Nozzle Insulator Part No. WS34CT (Stock No. 1340-1126)  
 (C) - Use with Nozzle Insulator Part No. WS34FN (Stock No. 1340-1127)  
 (1) - Flush to 1/8" (3.2 mm) Tip Recess

## AIR-COOLED HEAVY-DUTY NOZZLES

| Nozzle Style                               | Bore Diameter (in/mm) | Part No.           | Stock No. | Nozzle Design       | Nozzle/Contact Tip Relationship            |
|--------------------------------------------|-----------------------|--------------------|-----------|---------------------|--------------------------------------------|
| <b>WSHD24 SERIES 3-PIECE NOZZLE DESIGN</b> |                       |                    |           |                     |                                            |
| Slip-On (A)                                | 5/8" (15.9 mm)        | <b>WSHD24L-62</b>  | 1240-1572 | <b>Tapered</b>      | 1/8" - 5/32" (3.2 mm - 3.97 mm) Tip Recess |
|                                            | 5/8" (15.9 mm)        | <b>WSHD24L-62F</b> | 1240-1573 | <b>Tapered</b>      | Flush To 1/16" (1.6 mm) Tip Recess         |
|                                            | 5/8" (15.9 mm)        | <b>WSHD24-62</b>   | 1240-1570 | <b>Standard (1)</b> | 1/8" - 5/32" (3.2 mm - 3.97 mm) Tip Recess |
|                                            | 3/4" (19.5 mm)        | <b>WSHD24L-75</b>  | 1240-1574 | <b>Tapered</b>      | 1/8" - 5/32" (3.2 mm - 3.97 mm) Tip Recess |
|                                            | 3/4" (19.5 mm)        | <b>WSHD24-75</b>   | 1240-1571 | <b>Standard</b>     | 1/8" - 5/32" (3.2 mm - 3.97 mm) Tip Recess |

Note: (A) - Use with HD54 Series Gas Diffusers  
 (1) - 1.125" (28.6 mm) Outside Diameter

## AIR-COOLED STANDARD & HEAVY-DUTY NOZZLES & NOZZLE INSULATORS

| Nozzle Style                                                                                         | Bore Diameter (in/mm) | Part No.         | Stock No. | Nozzle Design     | Nozzle/Contact Tip Relationship            |
|------------------------------------------------------------------------------------------------------|-----------------------|------------------|-----------|-------------------|--------------------------------------------|
| <b>WS23 SERIES 3-PIECE NOZZLE DESIGN - STANDARD ALLOY COPPER - 0.875" (22.2 mm) OUTSIDE DIAMETER</b> |                       |                  |           |                   |                                            |
| Thread-On                                                                                            | 3/8" (9.5 mm)         | <b>WS23-37</b>   | 1230-1010 | <b>Standard</b>   | 1/8" - 5/32" (3.2 mm - 3.97 mm) Tip Recess |
|                                                                                                      | 3/8" (9.5 mm)         | <b>WS23T-37</b>  | 1230-1035 | <b>Tapered</b>    | 1/8" - 5/32" (3.2 mm - 3.97 mm) Tip Recess |
|                                                                                                      | 3/8" (9.5 mm)         | <b>WS23T-37F</b> | 1230-1303 | <b>Tapered</b>    | Flush To 1/16" (1.6 mm) Tip Recess         |
|                                                                                                      | 1/2" (12.7 mm)        | <b>WS23-50</b>   | 1230-1011 | <b>Standard</b>   | 1/8" - 5/32" (3.2 mm - 3.97 mm) Tip Recess |
|                                                                                                      | 1/2" (12.7 mm)        | <b>WS23-50F</b>  | 1230-1016 | <b>Standard</b>   | Flush To 1/16" (1.6 mm) Tip Recess         |
|                                                                                                      | 5/8" (15.9 mm)        | <b>WS23-62</b>   | 1230-1012 | <b>Standard</b>   | 1/8" - 5/32" (3.2 mm - 3.97 mm) Tip Recess |
|                                                                                                      | 5/8" (15.9 mm)        | <b>WS23H-62</b>  | 1230-1221 | <b>Heavy-Duty</b> | 1/8" - 5/32" (3.2 mm - 3.97 mm) Tip Recess |
|                                                                                                      | 5/8" (15.9 mm)        | <b>WS23-75</b>   | 1230-1013 | <b>Standard</b>   | 1/8" - 5/32" (3.2 mm - 3.97 mm) Tip Recess |

Note: Self Insulated Nozzles

## CONDUIT LINERS FOR USE WITH STEEL WELDING WIRES

| Wire Size in/mm                 | Part No.            | Stock No. | Description                  |
|---------------------------------|---------------------|-----------|------------------------------|
| <b>WM150 &amp; WM250 SERIES</b> |                     |           |                              |
| .030" - .035" (0.8 mm - 0.9 mm) | <b>WS42-3035-15</b> | 1420-1140 | Steel Wound 15 ft (5 m) Long |
| .030" - .035" (0.8 mm - 0.9 mm) | <b>WS42-3035-25</b> | 1420-1145 | Steel Wound 25 ft (8 m) Long |
| .040" - .045" (1.0 mm - 1.2 mm) | <b>WS42-4045-15</b> | 1420-1141 | Steel Wound 15 ft (5 m) Long |
| .040" - .045" (1.0 mm - 1.2 mm) | <b>WS42-4045-25</b> | 1420-1146 | Steel Wound 25 ft (8 m) Long |
| <b>WM400 SERIES</b>             |                     |           |                              |
| .035" - .045" (0.9 mm - 1.2 mm) | <b>WS44-3545-15</b> | 1440-1140 | Steel Wound 15 ft (5 m) Long |
| .035" - .045" (0.9 mm - 1.2 mm) | <b>WS44-3545-25</b> | 1440-1145 | Steel Wound 25 ft (8 m) Long |
| .052" - 1/16" (1.3 mm - 1.6 mm) | <b>WS44-116-15</b>  | 1440-1141 | Steel Wound 15 ft (5 m) Long |
| .052" - 1/16" (1.3 mm - 1.6 mm) | <b>WS44-116-25</b>  | 1440-1146 | Steel Wound 25 ft (8 m) Long |
| 5/64" (2.0 mm)                  | <b>WS44-564-15</b>  | 1440-1142 | Steel Wound 15 ft (5 m) Long |
| 5/64" (2.0 mm)                  | <b>WS44-564-25</b>  | 1440-1147 | Steel Wound 25 ft (8 m) Long |
| <b>WM500 SERIES</b>             |                     |           |                              |
| .035" - .045" (0.9 mm - 1.2 mm) | <b>WS45-3545-15</b> | 1450-1104 | Steel Wound 15 ft (5 m) Long |
| .052" - 1/16" (1.3 mm - 1.6 mm) | <b>WS45-116-15</b>  | 1450-1114 | Steel Wound 15 ft (5 m) Long |
| 3/32" (2.4 mm)                  | <b>WS45H-332-15</b> | 1450-1134 | Steel Wound 15 ft (5 m) Long |

## CONDUIT LINERS FOR USE WITH ALUMINUM WELDING WIRES

| Wire Size in/mm                 | Part No.             | Stock No. | Description             |
|---------------------------------|----------------------|-----------|-------------------------|
| <b>WM150 &amp; WM250 SERIES</b> |                      |           |                         |
| .030" - 3/64" (0.8 mm - 1.2 mm) | <b>WS42N-3545-15</b> | 1420-1142 | Teflon 15 ft (5 m) Long |
| <b>WM400 SERIES</b>             |                      |           |                         |
| .030" - 3/64" (0.8 mm - 1.2 mm) | <b>WS44N-3545-15</b> | 1440-1135 | Nylon 15 ft (5 m) Long  |
| 1/16" (1.6 mm)                  | <b>WS44N-116-15</b>  | 1440-1136 | Nylon 15 ft (5 m) Long  |

## TWECOTONG® Electrode Holders

TWECOTONG electrode holders feature reversible top and bottom Insulators. Efficient 6-position jaw patterns and fully insulated, protected springs. Ball-point cable connection is also featured.



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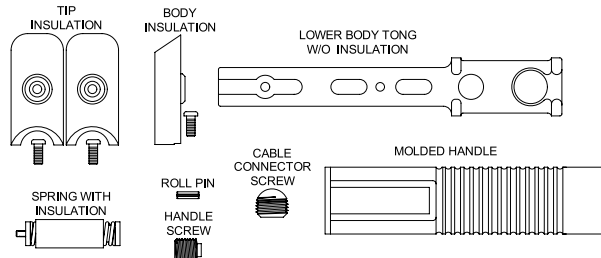
A-14

| Part Number | Stock Number | Amperage Capacity | Body Alloy   | Electrode Capacity  | Cable Conn Capacity        | English Length | Metric Length |
|-------------|--------------|-------------------|--------------|---------------------|----------------------------|----------------|---------------|
| A-532*      | 9110-1101    | 200               | Copper Alloy | thru 5/32" (4,0 mm) | Ball-Point thru 2/0        | 8-1/2"         | 216 mm        |
| A532-MC**   | 9110-1109    | 200               | Copper Alloy | thru 5/32" (4,0 mm) | Ball-Point thru 2/0        | 8-1/2"         | 216 mm        |
| A-316*      | 9110-1102    | 250               | Copper Alloy | thru 3/16" (4,8 mm) | Ball-Point thru 2/0        | 9-1/4"         | 235 mm        |
| A316-MC**   | 9110-1110    | 250               | Copper Alloy | thru 3/16" (4,8 mm) | Ball-Point thru 2/0        | 9-1/4"         | 235 mm        |
| A-732*      | 9110-1103    | 300               | Copper Alloy | thru 7/32" (5,6 mm) | Ball-Point thru 2/0        | 10"            | 254 mm        |
| A732-MC**   | 9110-1111    | 300               | Copper Alloy | thru 7/32" (5,6 mm) | Ball-Point thru 2/0        | 10"            | 254 mm        |
| A-14        | 9110-1104    | 350               | Copper Alloy | thru 1/4" (6,4 mm)  | Ball-Point thru 4/0        | 11"            | 279 mm        |
| A-14-HD     | 9110-1105    | 400               | Copper Alloy | thru 1/4" (6,4 mm)  | Double Ball-Point thru 4/0 | 12"            | 305 mm        |
| A-38-HD     | 9110-1106    | 500               | Copper Alloy | thru 3/8" (9,5 mm)  | Double Ball-Point thru 4/0 | 13-1/4"        | 336 mm        |

\* Clamshell packaging. Sold individually or master packed in quantities of 12 each.

\*\* Sold in Master Pack Boxed Quantities of 24.

## TWECOTONG Electrode Holder Parts



| Description              | A-532<br>Part No./<br>Stock No. | A-316<br>Part No./<br>Stock No. | A-732<br>Part No./<br>Stock No. | A-14<br>Part No./<br>Stock No. | A-14-HD<br>Part No./<br>Stock No. | A-38-HD<br>Part No./<br>Stock No. |
|--------------------------|---------------------------------|---------------------------------|---------------------------------|--------------------------------|-----------------------------------|-----------------------------------|
| Tip Insulation           | A-532-1P<br>9910-2102           | A-532-1P<br>9910-2102           | A-732-1P<br>9910-2302           | A-732-1P<br>9910-2302          | A-732-1P<br>9910-2302             | A-38-HD-1P<br>9910-2602           |
| Body Insulation          | A-532-3<br>9910-2103            | A-532-3<br>9910-2103            | A-532-3<br>9910-2103            | A-14-3<br>9910-2403            | A-14-3<br>9910-2403               | A-38-HD-3<br>9910-2603            |
| Lower Body Tong w/o Ins. | A-316-4R<br>9910-2204           | A-316-4R<br>9910-2204           | A-732-4<br>9910-2304            | A-14-4<br>9910-2404            | A-14-HD-4<br>9910-2504            | A-38-HD-4<br>9910-2604            |
| Spring w/Insulation      | A-532-6<br>9910-2106            | A-316-6<br>9910-2206            | A-316-6<br>9910-2206            | N/A                            | N/A                               | N/A                               |
| Molded Handle            | A-532-7<br>9910-2107            | A-316-7<br>9910-2207            | A-732-7<br>9910-2307            | A-14-7<br>9910-2407            | A-14-HD-7<br>9910-2507            | A-38-HD-7<br>9910-2607            |
| Hinge Pin                | A-532-11<br>9910-2111           | A-532-11<br>9910-2111           | A-532-11<br>9910-2111           | A-532-11<br>9910-2111          | A-532-11<br>9910-2111             | FGC-200-5<br>9910-2610            |
| Handle Screws            | AL-300-12<br>9910-2712          | AL-300-12<br>9910-2712          | AL-300-12<br>9910-2712          | AL-300-12<br>9910-2712         | AL-300-12<br>9910-2712            | AL-300-12<br>9910-2712            |
| Cable Conn. Screw        | A-532-24<br>9910-2124           | A-532-24<br>9910-2124           | A-532-24<br>9910-2124           | A-14-24<br>9910-2424           | A-14-24<br>9910-2424              | A-14-24<br>9910-2424              |

## "TWECO-TITE" Holder



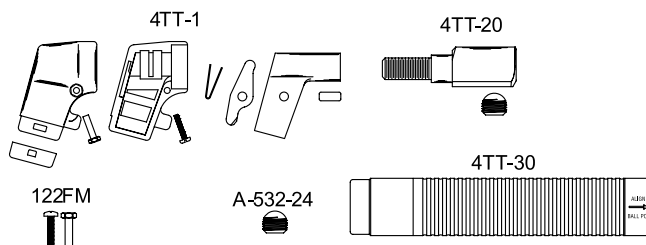
4TT

| Part Number | Stock Number | Description       | Amperage Capacity | Electrode Capacity                   | Cable Conn Capacity | English Length | Metric Length |
|-------------|--------------|-------------------|-------------------|--------------------------------------|---------------------|----------------|---------------|
| 4TT         | 9120-1000    | TWECO-TITE Holder | 400               | 1/16" thru 1/4" (1.6 mm thru 6.4 mm) | thru 3/0            | 9"             | 229 mm        |



## "TWECO-TITE" Holder Parts

| Part Number | Stock Number | Description                         |
|-------------|--------------|-------------------------------------|
| 4TT-1       | 9911-2001    | Head Assy - Complete (renewable)    |
| 4TT-20      | 9911-2020    | Connector Body w/Ball-Point Screw   |
| 4TT-30      | 9911-2030    | Handle Only                         |
| A-532-24    | 9910-2124    | Ball-Point Screw                    |
| 122FM       | 2020-2122    | Binder Post & Screw - for Head Ins. |



## Tweco® Ground Clamps



SGC-500



GC-300



FGC-500

| Part Number | Stock Number | Amperage Capacity | Jaw Opening                                  | Cable Conn Capacity  | English Length | Metric Length |
|-------------|--------------|-------------------|----------------------------------------------|----------------------|----------------|---------------|
| SGC-300     | 9205-1230    | 300               | 2" - Depth 1-3/4"<br>(50.8 mm - 44.4 mm)     | 1/2" Stud Connection | 9"             | 228 mm        |
| SGC-500     | 9205-1250    | 500               | 2" - Depth 1-3/4"<br>(50.8 mm - 44.4 mm)     | 1/2" Stud Connection | 9"             | 228 mm        |
| GC-200      | 9205-1120    | 200               | 1" - Depth 3"<br>(25.4 mm - 76.2 mm)         | Ball-Point thru 1/0  | 6"             | 157 mm        |
| GC-300*     | 9205-1130    | 300               | 1-1/2" - Depth 4" (38.1 mm - 101.0 mm)       | Ball-Point thru 3/0  | 8-1/2"         | 216 mm        |
| GC-300MC**  | 9205-1131    | 300               | 1-1/2" - Depth 4" (38.1 mm - 101.0 mm)       | Ball-Point thru 3/0  | 8-1/2"         | 216 mm        |
| GC-500      | 9205-1150    | 500               | 2" - Depth 5-1/4"<br>(50.8 mm - 133.0 mm)    | Ball-Point thru 4/0  | 10"            | 254 mm        |
| FGC-200     | 9205-1320    | 200               | 5/8" - Depth 2"<br>(15.9 mm - 50.8 mm)       | Ball-Point thru 1/0  | 5"             | 127 mm        |
| FGC-300     | 9205-1330    | 300               | 1" - Depth 3-1/2"<br>(25.4 mm - 88.9 mm)     | Ball-Point thru 3/0  | 7-1/4"         | 184 mm        |
| FGC-500     | 9205-1350    | 500               | 1-1/4" - Depth 3-3/4"<br>(31.8 mm - 95.3 mm) | Ball-Point thru 4/0  | 9-1/4"         | 234 mm        |

\* Clamshell packaging. Sold individually or master packed in quantities of 12 each.

\*\*Sold in Master Pack Boxed Quantities of 24.

## Steel Clamp Parts

| Part Number | Stock Number | Description                                         |
|-------------|--------------|-----------------------------------------------------|
| SGC-500-4   | 9920-2504    | Cone Head Replacement Jaw - for SGC-300 and SGC-500 |

## Copper Clamp Parts

| Model No. | Insulated Spring |           | Cable Support Ring |           | Cable Connection Screw |           |
|-----------|------------------|-----------|--------------------|-----------|------------------------|-----------|
|           | Part No.         | Stock No. | Part No.           | Stock No. | Part No.               | Stock No. |
| GC-300    | GC-300-2         | 9920-2302 | GC-300-11          | 9920-2311 | GC-300-12              | 9920-2312 |

## Heavy Duty Rotary Ground Devices

Tweco® Roto-Ground is a highly efficient device for grounding weldments while being rotated on turning rolls or positioners. The 2" shaft shoulders up to a steel nut which the user welds to his rotating work or fixture. Tweco Roto-Grounds have no brushes, springs or mercury. A simple tension adjusting bolt provides maximum efficiency.



RG-440

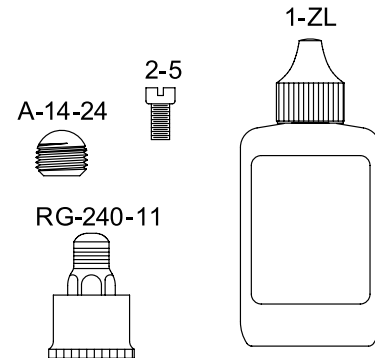


GCRG-140

| Part Number | Stock Number | Amperage Capacity | Cable Capacity | Number of Heads | Shaft Stud | English Length | Metric Length |
|-------------|--------------|-------------------|----------------|-----------------|------------|----------------|---------------|
| RG-140      | 9250-1114    | 400               | 1 - 4/0        | 1               | 3/4" NC    | 8"             | 203 mm        |
| RG-230      | 9250-1123    | 600               | 2 - 3/0        | 1               | 1-1/8" NC  | 10-1/4"        | 260 mm        |
| RG-240      | 9250-1124    | 800               | 2 - 4/0        | 1               | 1-3/8" NC  | 10-5/8"        | 270 mm        |
| RG-440      | 9250-1144    | 1500              | 4 - 4/0        | 2               | 1-3/8" NC  | 10-5/8"        | 270 mm        |
| RG-640      | 9250-1164    | 2000              | 6 - 4/0        | 3               | 1-3/8" NC  | 10-5/8"        | 270 mm        |
| GCRG-140    | 9210-1314    | 400               | 1 - 4/0        | 1               | 3/4" NC    |                |               |

## Roto-Ground Parts

| Part Number | Stock Number | Description                       |
|-------------|--------------|-----------------------------------|
| RG-240-11   | 9922-2129    | Lubricating Cup                   |
| A-14-24     | 9910-2424    | Ball-Point Cable Connection Screw |
| 1Z-L        | 9900-1123    | Special Shaft Lubricant           |
| 2-5         | 9940-2125    | Fibre Cover Screw                 |

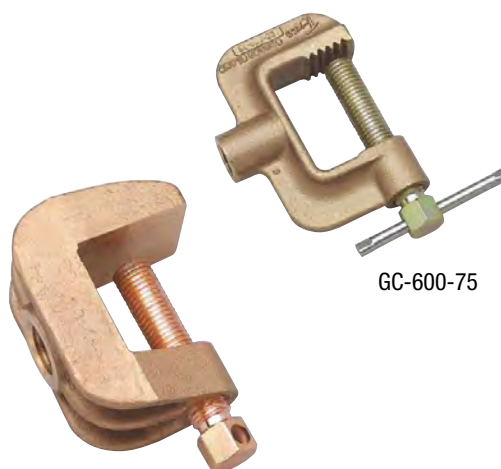


| Description         | RG-140<br>Part No./<br>Stock No. | RG-230<br>Part No./<br>Stock No. | RG-240<br>Part No./<br>Stock No. | RG-440<br>Part No./<br>Stock No. | RG-640<br>Part No./<br>Stock No. |
|---------------------|----------------------------------|----------------------------------|----------------------------------|----------------------------------|----------------------------------|
| Head                | RG-140-2-0<br>9922-2103          | RG-230-3-0<br>9922-2113          | RG-240-4-0<br>9922-2124          | RG-240-4-0<br>9922-2124          | RG-240-4-0<br>9922-2124          |
| Head Shaft          | RG-140-2<br>9922-2102            | RG-230-2<br>9922-2112            | RG-240-2<br>9922-2122            | RG-440-2<br>9922-2132            | RG-640-2<br>9922-2142            |
| Work Attachment Nut | RG-140-5<br>9922-2105            | RG-230-5<br>9922-2115            | RG-240-5<br>9922-2125            | RG-240-5<br>9922-2125            | RG-240-5<br>9922-2125            |
| Fibre Cover         | N/A                              | RG-240-7<br>9922-2127            | RG-240-7<br>9922-2127            | RG-240-7<br>9922-2127            | RG-240-7<br>9922-2127            |

## Tweco® Roto-Work Grounding Clamps

Tweco Roto-Work Ground Clamps are designed primarily to work in conjunction with the Tweco Roto-Ground Device. However, they may also be used for other high amperage grounding applications. The Roto-Ground shaft screws into the tapped back of the Roto-Work Clamp. The clamp is quickly attached or moved from one rotating weldment or fixture to the other without removing the Roto-Ground from it. Saves welding down time.

Roto-Work Clamps are made from a copper alloy. They come in 600, 1200 and 2000 ampere capacity. Number WCRG-2000 has two tightening screws. Number WCRG-600 works only with No. RG-230 due to its smaller shaft size. Large tightening screws and ample contact surface area provide cool, efficient operation.



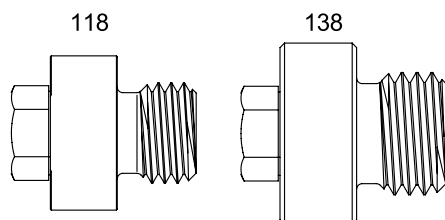
WCRG-1200

GC-600-75

| Part Number | Stock Number | Amperage Capacity                                    | Fits Roto-Ground | Clamp Contact | Throat Height    | Throat Depth     | Over-All Height   | Over-All Width   | Tapped For |
|-------------|--------------|------------------------------------------------------|------------------|---------------|------------------|------------------|-------------------|------------------|------------|
| WCRG-600    | 9255-1106    | 600                                                  | RG-230           | 6-1/4 sq in   | 2-1/2" (63.5 mm) | 2-1/2" (63.5 mm) | 5-3/4" (146.0 mm) | 2-1/2" (63.5 mm) | 1-1/8" NC  |
| WCRG-1200   | 9255-1112    | 1200                                                 | RG-240/440       | 9 sq in       | 3" (76.2 mm)     | 3" (76.2 mm)     | 6-3/4" (171.0 mm) | 3" (76.2 mm)     | 1-3/8" NC  |
| WCRG-2000   | 9255-1120    | 2000                                                 | RG-440/640       | 12 sq in      | 3" (76.2 mm)     | 3" (76.2 mm)     | 6-3/4" (171.0 mm) | 4" (102.0 mm)    | 1-3/8" NC  |
| GC-600-75   | 9255-1075    | Clamp Only - Tapped 3/4" for RG-140 Roto-Ground Only |                  |               |                  |                  |                   |                  |            |

| Part Number | Stock Number | Amperage Capacity | Jaw Opening                               | Cable Conn Capacity |
|-------------|--------------|-------------------|-------------------------------------------|---------------------|
| GC-600-50   | 9210-1150    | 500               | 2-1/2" - Depth 1-3/8" (63.5 mm - 41.3 mm) | 1/2" Cap Screw      |
| GC-600-DBP  | 9210-1201    | 600               | 2-1/2" - Depth 1-3/8" (63.5 mm - 34.9 mm) | Double Ball-Point   |
| GC-600-TMP  | 9210-1202    | 600               | 2-1/2" - Depth 1-3/8" (69.5 mm - 34.9 mm) | Tweco Male Plug     |

| Part Number | Stock Number | Description                                                                                                              |
|-------------|--------------|--------------------------------------------------------------------------------------------------------------------------|
| 118         | 9922-2018    | Work Clamp Adapter W/ 1-1/8"-7 UNC 2A OD Thread & 5/8"-11 UNC-2A ID Thread - Fits WCRG-600 Roto-Work Clamp               |
| 138         | 9922-2038    | Work Clamp Adapter W/ 1-3/8"-6 UNC 2A OD Thread & 5/8"-11 UNC-2A ID Thread - Fits WCRG-1200 & WCRG-2000 Roto-Work Clamps |



## "C" Type Clamp Parts

| Part Number | Stock Number | Description                                  |
|-------------|--------------|----------------------------------------------|
| CS-6        | 9920-2100    | Cap Screw - 1/2" x 3/4" NC                   |
| GCM-2-4     | 9920-2102    | Fitting-No.2 Male Plug (threaded 1/2" NC)    |
| GCS-40      | 9920-2103    | Fitting-Double Ball-Point (threaded 1/2" NC) |
| 24R-MBP     | 9940-2124    | Cover                                        |

# Manual Welding Products & Accessories

## Switchable Magnetic Ground Clamps

It's simple to use – just turn the knob. It's easy to operate and mounts on all surfaces. Turn the knob clockwise and you instantly have a secure grip. Perfect for flat and pipe applications. Available in 200, 300, and 600 Amp sizes, these ground clamps are designed to save welders time and money.

- Saves welders time and money
- Cuts set up time
- Convenient tab to easily attach ground line
- Clamp can be used to ground on flat, round, and irregular surfaces
- Choose between 200, 300, and 600 Amp clamps to meet any welding need
- Magnetic field is simple to turn on and off, making use and clean up quick and easy
- Easy to mount: simply attach your ground line to bolt connector tab
- Can withstand heat up to 176°F (80°C)
- Magnetic switch is easy to operate: a simple turn of the knob



### Easy Connect & Easy Release On/Off Knob



SMGC200

### Just Turn Off & Wipe Away Debris



SMGC300

### Cuts Set Up Time



SMGC600

| Part Number | Stock Number | Amp | Height             | Width              | Length              | Weight    | Std Pkg |
|-------------|--------------|-----|--------------------|--------------------|---------------------|-----------|---------|
| SMGC200     | 9255-1060    | 200 | 2.5"<br>(63.5 mm)  | 1.58"<br>(40.1 mm) | 2.19"<br>(55.6 mm)  | 0.38 lbs  | 10      |
| SMGC300     | 9255-1061    | 300 | 2.26"<br>(57.4 mm) | 1.58"<br>(40.1 mm) | 2.7"<br>(68.6 mm)   | 0.61 lbs. | 10      |
| SMGC600     | 9255-1062    | 600 | 2.6"<br>(66.0 mm)  | 2.83"<br>(71.9 mm) | 4.09"<br>(103.9 mm) | 2.0 lbs   | 5       |

Patent Number: 6,707,360 & 7,012,495



## Tweco® Cable Connectors

Tweco MPC connectors provide a positive cam action which optimizes interface between connector halves. The connectors are equipped with heat and oil resistant covers. The MPC connectors are furnished with zinc plated cover and ball-point cable screws. They are interchangeable with older Tweco MBP Connectors. The Whip Cable Connector is used when down sizing cable to an electrode holder. It is a No. 2 male connector with cable hole sized to fit 4, 2, 1 or 1/0 cable. The 2-1-MPC will fit any No. 2 or No. 4 female connector.



4-MPC

2-1-MPC

### MPC SERIES POSITIVE-CAM MECHANICAL CONNECTION - ZINC PLATED TYPE CABLE & COVER SCREWS

| Part Number        | Stock Number | Description         | Type Cable Connection | Cable Capacity | Standard Package  |
|--------------------|--------------|---------------------|-----------------------|----------------|-------------------|
| <b>1-MPC</b>       | 9425-1100    | Complete Connection | Single Ball-Point     | 4, 2, 1        | 1 ea. Male/Female |
| <b>1-MPC-1</b>     | 9425-1110    | Male Half           | Single Ball-Point     | 4, 2, 1        | Pkg. 2 ea. Male   |
| <b>1-MPC-2</b>     | 9425-1120    | Female Half         | Single Ball-Point     | 4, 2, 1        | Pkg. 2 ea. Female |
| <b>2-MPC ‡</b>     | 9425-1200    | Complete Connection | Single Ball-Point     | 1/0, 2/0, 3/0  | 1 ea. Male/Female |
| <b>2-MPC-MC**</b>  | 9425-1201    | Complete Connection | Single Ball-Point     | 1/0, 2/0, 3/0  | 1 ea. Male/Female |
| <b>2-MPC-1 †</b>   | 9425-1210    | Male Half           | Single Ball-Point     | 1/0, 2/0, 3/0  | Pkg. 2 ea. Male   |
| <b>2-MPC-1-MC*</b> | 9425-1211    | Male Half           | Single Ball-Point     | 1/0, 2/0, 3/0  | Pkg. 2 ea. Male   |
| <b>2-MPC-2 †</b>   | 9425-1220    | Female Half         | Single Ball-Point     | 1/0, 2/0, 3/0  | Pkg. 2 ea. Female |
| <b>2-MPC-2-MC*</b> | 9425-1221    | Female Half         | Single Ball-Point     | 1/0, 2/0, 3/0  | Pkg. 2 ea. Female |
| <b>4-MPC ‡</b>     | 9425-1400    | Complete Connection | Double Ball-Point     | 3/0 or 4/0     | 1 ea. Male/Female |
| <b>4-MPC-MC**</b>  | 9425-1401    | Complete Connection | Double Ball-Point     | 3/0 or 4/0     | 1 ea. Male/Female |
| <b>4-MPC-1 †</b>   | 9425-1410    | Male Half           | Double Ball-Point     | 3/0 or 4/0     | Pkg. 2 ea. Male   |
| <b>4-MPC-1-MC*</b> | 9425-1411    | Male Half           | Double Ball-Point     | 3/0 or 4/0     | Pkg. 2 ea. Male   |
| <b>4-MPC-2 †</b>   | 9425-1420    | Female Half         | Double Ball-Point     | 3/0 or 4/0     | Pkg. 2 ea. Female |
| <b>4-MPC-2-MC*</b> | 9425-1422    | Female Half         | Double Ball-Point     | 3/0 or 4/0     | Pkg. 2 ea. Female |
| <b>2-1-MPC</b>     | 9425-1140    | Whip Connection     | Single Ball-Point     | 4, 2, 1, 1/0   | Pkg. 2 ea.        |

\*Sold in Master Pack Boxed Quantities of 48.

\*\*Sold in Master Pack Quantities of 24.

† Clamshell packaging. Sold individually or master packed in quantities of 24 each.

‡ Clamshell packaging. Sold individually or master packed in quantities of 12 each.



1-M-T

### REPLACEMENT TAPERED MACHINE PLUGS - BALL-POINT CONNECTION

| Part Number  | Stock Number | Taper Length     | Taper Dimension                    | Cable Capacity |
|--------------|--------------|------------------|------------------------------------|----------------|
| <b>1-M-T</b> | 9505-1800    | 1-1/8" (28.6 mm) | 21/64" to 23/64" (8.3 mm x 9.1 mm) | 4, 2, 1        |
| <b>2-M-T</b> | 9505-1801    | 1-1/8" (28.6 mm) | 21.64" to 23/64" (8.3 mm x 9.1 mm) | 1/0, 2/0, 3/0  |



2-CLC

### RECEPTACLE CONVERSION ADAPTERS

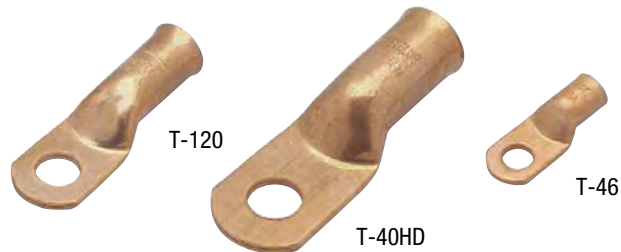
| Part Number  | Stock Number | Fits Cam Locking Machine Receptacle | Fits Tweco Male Plug Ends |
|--------------|--------------|-------------------------------------|---------------------------|
| <b>2-CLC</b> | 9505-1811    | Large - 11/16" I.D. (17.5 mm)       | No. 2-MPC, 4-MPC          |

### CABLE CONNECTOR REPLACEMENT PARTS MPC SERIES POSITIVE-CAM - ZINC PLATED TYPE CABLE & COVER SCREWS

| Part Number     | Stock Number | Description                                    |
|-----------------|--------------|------------------------------------------------|
| <b>1R-C</b>     | 9940-2103    | Insulating Cover Only, All 1-MPC               |
| <b>24R-MBP</b>  | 9940-2124    | Insulating Cover Only, All 2 & 4 MPC           |
| <b>A-532-24</b> | 9910-2124    | Cable Connection Screw, Zinc Plated, All 2-MPC |
| <b>A-14-24</b>  | 9910-2424    | Cable Connection Screw, Zinc Plated, All 4-MPC |
| <b>2-5</b>      | 9940-2125    | Cover Screw, Zinc Plated, All MPC Connectors   |

## Twecolugs Crimp or Solder Type

(USE TWECO® "LUG-SET")



| Part Number             | Stock Number | Welding Cable Size | Amp Rating | Size of Stud Hole   | I.D. Solder Socket | Std Pkg |
|-------------------------|--------------|--------------------|------------|---------------------|--------------------|---------|
| T-62-50                 | 9520-1115    | 6 thru 2           | 150        | 17/32"<br>(13.5 mm) | .461"<br>(11.7 mm) | 50      |
| T-62                    | 9520-1104    | 6 thru 2           | 150        | 17/32"<br>(13.5 mm) | .461"<br>(11.7 mm) | 5       |
| T-120-50                | 9520-1116    | 1 thru 2/0         | 225        | 17/32"<br>(13.5 mm) | .559"<br>(14.2 mm) | 50      |
| T-120                   | 9520-1105    | 1 thru 2/0         | 225        | 17/32"<br>(13.5 mm) | .559"<br>(14.2 mm) | 5       |
| T-3040-25               | 9520-1117    | 3/0 & 4/0          | 250        | 17/32"<br>(13.5 mm) | .660"<br>(16.7 mm) | 25      |
| T-3040                  | 9520-1107    | 3/0 & 4/0          | 250        | 17/32"<br>(13.5 mm) | .660"<br>(16.7 mm) | 5       |
| T-40HD-25               | 9520-1118    | 4/0 Heavy-Duty     | 325        | 21/32"<br>(17.7 mm) | .776"<br>(19.7 mm) | 25      |
| T-40HD                  | 9520-1109    | 4/0 Heavy-Duty     | 325        | 21/32"<br>(17.7 mm) | .776"<br>(19.7 mm) | 5       |
| <b>POWER CABLE LUGS</b> |              |                    |            |                     |                    |         |
| T-810                   | 9520-1101    | 8 thru 10          | 50         | 13/64"<br>(5.2 mm)  | .238"<br>(6.1 mm)  | 10      |
| T-68                    | 9520-1102    | 6 thru 8           | 70         | 21/64"<br>(8.3 mm)  | .289"<br>(7.3 mm)  | 10      |
| T-46                    | 9520-1103    | 4 thru 6           | 90         | 21/64"<br>(8.3 mm)  | .347"<br>(8.8 mm)  | 10      |

## Tweco Terminals and Twecolugs

**TWECO SCREW-ON TERMINALS**

**FITS TERMINAL SIZE 1/2" (12.7 mm) NC**



| Part Number | Stock Number | Accepts Tweco Connector Number |
|-------------|--------------|--------------------------------|
| 2-SF-50     | 9505-1152    | No. 2 & No. 4 Male Half        |

2-SF-50



## Tweco® Female Terminals

STUD HOLE SIZE 17/32" (13.5 mm)



| TWECO FEMALE TERMINALS   |             |                      |                     |
|--------------------------|-------------|----------------------|---------------------|
| Part No.<br>Stock No.    | Description | Accepts<br>Male Ends | Standard<br>Package |
| <b>1-AF</b><br>9510-1100 | 45° Angle   | 1-MPC                | 1                   |
| <b>1-OF</b><br>9510-1101 | 180° Offset | 1-MPC                | 1                   |
| <b>2-AF</b><br>9510-1110 | 45° Angle   | 2-MPC, 4-MPC         | 1                   |
| <b>2-OF</b><br>9510-1111 | 180° Offset | 2-MPC, 4-MPC         | 1                   |

## Ball-Point Connection Type Lugs

STUD HOLE SIZE 17/32" (13.5 mm)

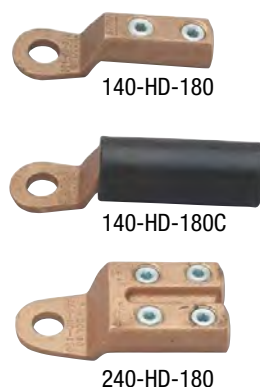


| BALL-POINT CONNECTION TYPE LUGS |                                     |                   |                     |
|---------------------------------|-------------------------------------|-------------------|---------------------|
| Part No.<br>Stock No.           | Description                         | Cable<br>Capacity | Standard<br>Package |
| <b>10-45</b><br>9515-1100       | 45° Angle<br>less insulated cover   | thru 1/0          | 1                   |
| <b>10-180</b><br>9515-1102      | 180° Offset<br>less insulated cover | thru 1/0          | 1                   |
| <b>40-45</b><br>9515-1110       | 45° Angle<br>less insulated cover   | thru 4/0          | 1                   |
| <b>40-180</b><br>9515-1112      | 180° Offset<br>less insulated cover | thru 4/0          | 1                   |
| <b>10-45C</b><br>9515-1101      | 45° Angle<br>with insulated cover   | thru 1/0          | 1                   |
| <b>10-180C</b><br>9515-1103     | 180° Offset<br>with insulated cover | thru 1/0          | 1                   |
| <b>40-45C</b><br>9515-1111      | 45° Angle<br>with insulated cover   | thru 4/0          | 1                   |
| <b>40-180C</b><br>9515-1113     | 180° Offset<br>with insulated cover | thru 4/0          | 1                   |

## Heavy-Duty Type Lugs

MECHANICAL BALL-POINT

| Part No.<br>Stock No.           | Description                              | Cable<br>Capacity | Size Of<br>Stud Hole | English<br>Package | Metric<br>Length |
|---------------------------------|------------------------------------------|-------------------|----------------------|--------------------|------------------|
| <b>140-HD-180</b><br>9515-1120  | 180° Offset                              | 3/0 & 4/0         | 21/32"<br>(16.7 mm)  | 4-3/8"             | 111 mm           |
| <b>140-HD-180C</b><br>9515-1121 | With Insulated<br>Cover - 180°<br>Offset | 3/0 & 4/0         | 21/32"<br>(16.7 mm)  | 5-1/2"             | 140 mm           |
| <b>240-HD-180</b><br>9515-1122  | 180° Offset                              | 3/0 & 4/0         | 21/32"<br>(16.7 mm)  | 4-5/8"             | 131 mm           |



## Tweco Cable Splicers

BALL-POINT TYPE

| Part No.<br>Stock No.       | Cable Fitting Type | Cable Capacity | Standard Package |
|-----------------------------|--------------------|----------------|------------------|
| <b>BP-410</b><br>9605-1101  | Ball Point         | 4, 2, 1, 1/0   | 1                |
| <b>BP-1030</b><br>9605-1103 | Ball Point         | 1/0, 2/0, 3/0  | 1                |
| <b>BP-2040</b><br>9605-1105 | Double Ball Point  | 2/0, 3/0, 4/0  | 1                |



## Panel Receptacles

USE WITH MPC CONNECTORS

| Part No.<br>Stock No.        | Cable Fitting<br>Type | Fits Tweco<br>Connector | For Cable<br>Size | Cable<br>Attachment                 |
|------------------------------|-----------------------|-------------------------|-------------------|-------------------------------------|
| <b>1516-BPF</b><br>9580-1100 | Ball-Point            | No. 1                   | 4, 2, 1           | 5/16" Ball-Point<br>(7.9 mm)        |
| <b>114-TSF</b><br>9580-1101  | Threaded              | No. 1                   | 4, 2, 1, 1/0      | 5/16" Thread. Stud<br>(7.9 mm)      |
| <b>238-TSF</b><br>9580-1102  | Threaded              | No. 2, 4                | 1/0, 2/0, 3/0     | 3/8" Thread. Stud<br>(9.5 mm)       |
| <b>2916-BPF</b><br>9580-1103 | Ball-Point            | No. 2, 4                | 1/0, 2/0, 3/0     | 9/16" Ball-Point<br>(14.3 mm)       |
| <b>212-TSF</b><br>9580-1104  | Threaded              | No. 2, 4                | 1/0, 2/0, 3/0     | 1/2" - 20 Thread. Stud<br>(12.7 mm) |



238-TSF



2916-BPF

## Cable Splicers

| Part No.<br>Stock No.        | Description    | Welding<br>Cable Size | Tube I.D.          | Standard<br>Package |
|------------------------------|----------------|-----------------------|--------------------|---------------------|
| <b>TS-62-50</b><br>9610-1105 | Copper Splicer | 6 thru 2              | .461"<br>(11.7 mm) | 50                  |
| <b>TS-62</b><br>9610-1101    | Copper Splicer | 6 thru 2              | .461"<br>(11.7 mm) | 5                   |
| <b>TS-120</b><br>9610-1102   | Copper Splicer | 1 thru 2/0            | .599"<br>(15.2 mm) | 5                   |
| <b>TS-3040</b><br>9610-1103  | Copper Splicer | 3/0 thru 4/0          | .660"<br>(16.8 mm) | 5                   |
| <b>TS-40HD</b><br>9610-1104  | Copper Splicer | 4/0 Heavy-Duty        | .776"<br>(19.7 mm) | 5                   |



TS-3040

## Tweco® "Lug-Set" Block & Punch

FOR USE WITH TWECOLUGS

| Part No.<br>Stock No.     | Description   |
|---------------------------|---------------|
| <b>12-BP</b><br>9900-1140 | Block & Punch |



12-BP

## Jacket Stripping Cable Cutting Hand Tool

| Part No.<br>Stock No.     | Description                         |
|---------------------------|-------------------------------------|
| <b>T-908</b><br>9900-1190 | Tweco Cable<br>Cutting Hand<br>Tool |



T-908

## Tweco Shaft Lubricant

An electrical conductive grease to be used as a lubricant for roto-grounds and may be used when making mechanical connections with copper or aluminum cables. Effective as a lubricant on sliding or moving electrical contacts such as switches and rotating grounding devices. Apply generously to contact area from 1 oz (29.6 mL) or 8 oz (237.0 mL) plastic bottles. Reduce electrical resistance by as much as 40 to 50%

| Part No.<br>Stock No.    | Description                                                   |
|--------------------------|---------------------------------------------------------------|
| <b>1Z-L</b><br>9900-1123 | Tweco Shaft Lubricant, 1 oz (29.6 mL) Plastic Squeeze Bottle  |
| <b>8Z-L</b><br>9900-1124 | Tweco Shaft Lubricant, 8 oz (237.0 mL) Plastic Squeeze Bottle |



8Z-L



1Z-L

## Tweco® WeldSkill® Electrode Holders



| Part Number | Stock Number | Electrode Capacity | Amperage Capacity | Body Material | Cable Capacity | Length in/ mm   |
|-------------|--------------|--------------------|-------------------|---------------|----------------|-----------------|
| WS532       | 9110-1180    | 5/32" (4.0 mm)     | 200               | Brass Alloy   | Through 2/0    | 8-1/4" (209 mm) |
| WS316       | 9110-1181    | 3/16" (5.0 mm)     | 250               | Brass Alloy   | Through 2/0    | 9-1/4" (235 mm) |
| WS732       | 9110-1182    | 7/32" (5.5 mm)     | 300               | Brass Alloy   | Through 2/0    | 10" (253 mm)    |
| WS350E      | 9110-1118    | 1/4" (6.4 mm)      | 350               | Copper Alloy  | Through 4/0    | 11" (279 mm)    |
| WS400E      | 9110-1119    | 1/4" (6.4 mm)      | 400               | Copper Alloy  | Through 4/0    | 12" (305 mm)    |

## Tweco WeldSkill "Hold-Tite" Electrode Holder



| Part Number | Stock Number | Description                                 |
|-------------|--------------|---------------------------------------------|
| WHT-400     | 9120-1010    | 400A WeldSkill "Hold-Tite" Electrode Holder |

## Tweco WeldSkill Ground Clamps



| Part Number                 | Stock Number | Amp Rating | Jaw Opening    | Jaw Depth       | Cable Capacity | Length in/ mm   |
|-----------------------------|--------------|------------|----------------|-----------------|----------------|-----------------|
| <b>Copper Ground Clamps</b> |              |            |                |                 |                |                 |
| WS200GC                     | 9205-1215    | 200        | 1" (24 mm)     | 2-1/2" (63 mm)  | Through 1/0    | 6" (152 mm)     |
| WS300GC                     | 9205-1216    | 300        | 1-1/2" (38 mm) | 3-1/2" (88 mm)  | Through 2/0    | 8-1/4" (209 mm) |
| WS500GC                     | 9205-1217    | 500        | 2" (50 mm)     | 4-7/8" (123 mm) | Through 3/0    | 10" (253 mm)    |
| <b>Steel Ground Clamps</b>  |              |            |                |                 |                |                 |
| WS180SGC                    | 9205-1245    | 180        | 1-3/4" (44 mm) | 2" (50 mm)      | Through 1/0    | 6-1/2" (165 mm) |
| WS300SGC                    | 9205-1246    | 300        | 2" (50 mm)     | 2-1/2" (63 mm)  | Through 3/0    | 7-3/4" (196 mm) |
| WS500SGC                    | 9205-1247    | 500        | 2-1/4" (50 mm) | 3" (76 mm)      | Through 4/0    | 9-1/2" (241 mm) |

## Tweco® WeldSkill® Standard & Dinse Cable Connectors



4-WPC

| Part Number                                     | Stock Number | Description                | Cable Capacity | Standard Package |
|-------------------------------------------------|--------------|----------------------------|----------------|------------------|
| <b>POSITIVE-CAM MECHANICAL CABLE CONNECTORS</b> |              |                            |                |                  |
| 1-WPC                                           | 9425-1125    | Complete Set of Connectors | 4, 2, 1        | 1                |
| 1-WPC-P                                         | 9425-1126    | Connector Male Half Only   | 4, 2, 1        | 2                |
| 1-WPC-R                                         | 9425-1127    | Connector Female Half Only | 4, 2, 1        | 2                |
| 2-WPC                                           | 9425-1225    | Complete Set of Connectors | 1/0, 2/0, 3/0  | 1                |
| 2-WPC-P                                         | 9425-1226    | Connector Male Half Only   | 1/0, 2/0, 3/0  | 2                |
| 2-WPC-R                                         | 9425-1227    | Connector Female Half Only | 1/0, 2/0, 3/0  | 2                |
| 4-WPC                                           | 9425-1425    | Complete Set of Connectors | 3/0 or 4/0     | 1                |
| 4-WPC-P                                         | 9425-1246    | Connector Male Half Only   | 3/0 or 4/0     | 2                |
| 4-WPC-R                                         | 9425-1247    | Connector Female Half Only | 3/0 or 4/0     | 2                |
| <b>DINSE STYLE MECHANICAL CABLE CONNECTORS</b>  |              |                            |                |                  |
| WDC-25                                          | 9425-1445    | Complete Set of Connectors | 4, 2, 1        | 1                |
| WDC-25-P                                        | 9425-1446    | Connector Male Half Only   | 4, 2, 1        | 2                |
| WDC-25-R                                        | 9425-1447    | Connector Female Half Only | 4, 2, 1        | 2                |
| WDC-50                                          | 9425-1430    | Complete Set of Connectors | 1/0, 2/0, 3/0  | 1                |
| WDC-50-P                                        | 9425-1431    | Connector Male Half Only   | 1/0, 2/0, 3/0  | 2                |
| WDC-50-R                                        | 9425-1432    | Connector Female Half Only | 1/0, 2/0, 3/0  | 2                |
| WDC-75                                          | 9425-1435    | Complete Set of Connectors | 3/0 or 4/0     | 1                |
| WDC-75-P                                        | 9425-1436    | Connector Male Half Only   | 3/0 or 4/0     | 2                |
| WDC-75-R                                        | 9425-1437    | Connector Female Half Only | 3/0 or 4/0     | 2                |

## Tweco WeldSkill Panel Receptacles

TO FIT DINSE STYLE MALE CONNECTORS

| Part Number | Stock Number | Fits WeldSkill Connector                  | For Cable Size  | Standard Package |
|-------------|--------------|-------------------------------------------|-----------------|------------------|
| WDP-25      | 9580-1129    | Panel fitting accepts WDC-25-P            | 4,2,1           | 1                |
| WDP-50      | 9580-1130    | Panel fitting accepts WDC-50-P & WDC-75-P | 1/0 through 4/0 | 1                |



WDP-25

## Tweco WeldSkill Miscellaneous Connectors

| Part Number | Stock Number | Description                                               |
|-------------|--------------|-----------------------------------------------------------|
| 2MDC-CK     | 9425-1240    | 50 mm Dinse Male to Tweco #2 & #4 Positive Cam Connectors |

## Tweco WeldSkill Hammer-on Cable Lugs

| Part Number | Stock Number | Cable Size      | Amp Rating | Stud Hole Size   | I.D. Cable Socket | Quantity Per Pkg |
|-------------|--------------|-----------------|------------|------------------|-------------------|------------------|
| WS-3040H    | 9520-1128    | 3/0 through 4/0 | 250        | 17/32" (13.5 mm) | .660" (16.8 mm)   | 5                |
| WS-120H     | 9520-1127    | 1 through 2/0   | 225        | 17/32" (13.5 mm) | .559" (14.2 mm)   | 5                |
| WS-62H      | 9520-1125    | 6 through 2     | 150        | 17/32" (13.5 mm) | .461" (11.7 mm)   | 5                |



WS-62H



WS-120H



WS-3040H

## Tweco® WeldSkill® Welding Helmets

The new Tweco WeldSkill Auto-darkening welding helmet provides enhanced performance with 4 arc sensors at an affordable price. It offers operator comfort due to its lightweight construction and versatility. With superior performance, durability and flexibility, Tweco WeldSkill helmets offer exceptional value in personal welding protection.

- Enhanced performance – Four arc sensors for high response
- Auto-darkening – Automatically turns from light to dark and dark to light
- Lightweight – 16 oz (450 g)
- Variable shade – From 9 to 13
- Light shade DIN level – Level shade 4
- UV/IR Protection – Level shade 16 (DIN)
- “Sensitivity” control range
- Responsive lens switching speed – up to 1/30,000 sec (33 µs)
- “Delay” adjustable controls
- “Welding” or “Grinding” mode
- Large viewing area – 3.86" x 1.69" (98 mm x 43 mm)
- Solar-powered
- Affordable
- Certified – ANSI Z87.1, CE EN 379 and EN 175
- Support – 2-year warranty



**CARBON FIBER**



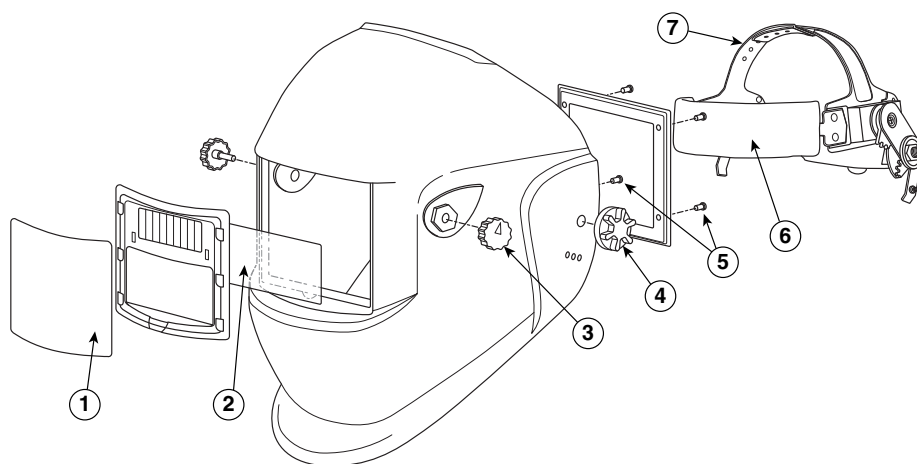
**PATRIOT EAGLE**

**CHOPPER RIDER**

**SKULL & FIRE**

### WELDING HELMETS

| Description   | Part No.        | Stock No. |
|---------------|-----------------|-----------|
| Carbon Fiber  | <b>WHF41001</b> | 4100-1001 |
| Patriot Eagle | <b>WHE41002</b> | 4100-1002 |
| Chopper Rider | <b>WHC41003</b> | 4100-1003 |
| Skull & Fire  | <b>WHS41004</b> | 4100-1004 |



### REPLACEMENT PARTS

| # | Part No.    | Stock No. | Description            | Qty/<br>Pkg | #  | Part No.   | Stock No. | Description                            | Qty/<br>Pkg |
|---|-------------|-----------|------------------------|-------------|----|------------|-----------|----------------------------------------|-------------|
| 1 | WH41001-FL  | 2089-1010 | Front Cover Lens       | 2           | 6  | WH41001-HB | 2089-1020 | Headband                               | 1           |
| 2 | WH41001-IL4 | 2089-1026 | Inside Cover Lens      | 2           | 7  | WH41001-HG | 2089-1023 | Headgear Assembly                      | 1           |
| 3 | WH41001-KB  | 2089-1013 | Shade/Sensitivity Knob | 2           | NS | WH41001-HH | 2089-1024 | Hard Hat Fixtures                      | 1           |
| 4 | WH41001-BN  | 1089-1017 | Headgear Knob          | 2           | NS | WH41001-ML | 2089-1025 | Magnifying Lens Kit (2X Magnification) | 1           |
| 5 | WH41001-FF  | 2089-1018 | Filter Frame w/Screws  | 1           |    |            |           |                                        |             |



**LIMITED WARRANTY:** THERMADYNE® warrants that its products will be free of defects in workmanship or material. Should any failure to conform to this warranty appear within the time period applicable to the THERMADYNE® products as stated below, THERMADYNE® shall, upon notification thereof and substantiation that the product has been stored, installed, operated, and maintained in accordance with THERMADYNE®'s specifications, instructions, recommendations and recognized standard industry practice, and not subject to misuse, repair, neglect, alteration, or accident, correct such defects by suitable repair or replacement, at THERMADYNE®'s sole option, of any components or parts of the product determined by THERMADYNE® to be defective.

**THIS WARRANTY IS EXCLUSIVE AND IS IN LIEU OF ANY WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE.**

**LIMITATION OF LIABILITY:** THERMADYNE® shall not under any circumstances be liable for special or consequential damages, such as, but not limited to, damage or loss of purchased or replacement goods, or claims of customers of distributor (hereinafter "Purchaser") for service interruption.

The remedies of the Purchaser set forth herein are exclusive and the liability of THERMADYNE® with respect to any contract, or anything done in connection therewith such as the performance or breach thereof, or from the manufacture, sale, delivery, resale, or use of any goods covered by or furnished by THERMADYNE® whether arising out of contract, negligence, strict tort, or under any warranty, or otherwise, shall not, except as expressly provided herein, exceed the price of the goods upon which such liability is based.

**THIS WARRANTY BECOMES INVALID IF REPLACEMENT PARTS OR ACCESSORIES ARE USED WHICH MAY IMPAIR THE SAFETY OR PERFORMANCE OF ANY THERMADYNE® PRODUCT.**

**THIS WARRANTY IS INVALID IF THE PRODUCT IS SOLD BY NON-AUTHORIZED PERSONS.**

The warranty is effective for the time stated below beginning on the date that the authorized distributor delivers the products to the Purchaser. Notwithstanding the foregoing, in no event shall the warranty period extend more than the time stated plus 1 year from the date THERMADYNE® delivered the product to the authorized distributor.



**1 YEAR PARTS AND LABOR UNLESS SPECIFIED**

QRC-2000 Nozzle Cleaning Stations  
TC and TCV Water Coolers (No Labor)  
TSC-96 Smoke Collector (No Labor)  
ESG-1, EPG-CR1, CR2 Control  
Boxes for Spool & Pull Guns (No Labor)  
Professional Eliminator® Spool Guns (No Labor)  
Arcair® N6000 (No Labor)

**180 DAYS PARTS / NO LABOR**

Professional MIG Guns (i.e. PulseMaster™ MIG Guns & PullMaster™, Spray Master™, Eliminator®, Supra, Professional No. #, SEFC, etc)

**90 DAYS PARTS AND LABOR UNLESS SPECIFIED**

Robotic Deflection Mounts  
QRM-1 and QRM-2 Anti-Spatter Applicator

**30 DAYS PARTS / NO LABOR**

All other products including:  
Weldskill® MIG and Spool Guns (No Labor)  
(from the date sold by authorized distributor to purchaser)



**5 YEARS PARTS / NO LABOR**

Victor® Slimlite Medical  
Victor® Professional

**3 YEARS PARTS / NO LABOR**

TurboTorch®

**2 YEARS PARTS / NO LABOR**

CutSkill®, Oxygen Conservors, Victor® VSP,  
HP&I Brass regulators/manifolds  
All other Victor® Medical product

**1 YEARS PARTS / NO LABOR**

FirePower®  
Steel Cylinders, Cutting Machine Motors (i.e. VCM 200)  
HP&I Stainless regulators/manifolds  
Parts in Rental Applications  
(from the date sold by seller to authorized distributor)

**90 DAYS PARTS / NO LABOR**

HP&I Corrosive Gas Regulators/Manifolds

Contact your **STOODY** representative for warranty information on this product

**Thermadyne limited warranty shall not apply to: Consumable Parts for MIG, TIG, Plasma welding, Plasma cutting and Oxy fuel torches, O-rings, fuses, filters or other parts that fail due normal wear**

\* Warranty repairs or replacement claims under this limited warranty must be submitted by an authorized THERMADYNE® repair facility within thirty (30) days of the repair.

\* No employee, agent, or representative of THERMADYNE® is authorized to change this warranty in any way or grant any other warranty, and THERMADYNE® shall not be bound by any such attempt. Correction of non-conformities, in the manner and time provided herein, constitutes fulfillment of THERMADYNE®'s obligations to purchaser with respect to the product.

\* This warranty is void, and seller bears no liability hereunder, if purchaser used replacement parts or accessories which, in THERMADYNE®'s sole judgment, impaired the safety or performance of any THERMADYNE® product. Purchaser's rights under this warranty are void if the product is sold to purchaser by unauthorized persons.



**4 YEARS PARTS AND LABOR**

CutMaster TRUE

**2 YEARS PARTS / 1 YEAR LABOR**

DragGun Plus, PAK 200, PAK 45  
AutoCut and UltraCut

**1 YEAR PARTS AND LABOR UNLESS SPECIFIED**

AirCut 15, CutSkill® units,  
Water recirculators  
Stand Off Controls, Remote Controls, other Consols  
1Torch, Surelok, XT300 / XT301 and Maximizer torches

**180 DAYS PARTS AND LABOR UNLESS SPECIFIED**

All other "Torch and Leads" Packages

**90 DAYS PARTS / NO LABOR**

Replacement repair parts



**5 YEARS PARTS\* / 3 YEARS LABOR**

ArcMaster, Excelarc, Fabricator, Fabstar, PowerMaster  
Portafeed, Ultrafeed, Ultima 150, WC 100B  
\* 5 years on the Original Main Power Transformer and Inductors not mounted on PCBoards.  
\* 3 years on Power Supply Components

**2 YEARS PARTS AND LABOR UNLESS SPECIFIED**

Auto-Darkening Welding Helmet (electronic Lens),  
\*\* 1 Month Harness Assy  
Victor Regulator for Fabricator 181i (No labor)

**1 YEARS PARTS AND LABOR UNLESS SPECIFIED**

95S, Water recirculators  
All Plasma Welding consols (i.e WC-1 Controller, WT Timer, WF-100 Capstain Feeder, etc)

**180 DAYS PARTS AND LABOR UNLESS SPECIFIED**

Plasma Welding Torch and leads packages  
Gas Regulators "Supplied with power sources" (No Labor)

**90 DAYS PARTS / NO LABOR**

Remote Controls  
MIG and TIG Torches (Supplied with power sources)  
Replacement repair parts

**30 DAYS PARTS / NO LABOR**

MIG Torch for Fabricator 181i

**5-2-1 YEARS PARTS / NO LABOR**

FirePower® Welders



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Fax: (1) 940-483-8178

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### Oakville, Ontario, Canada

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## ISO 9001 REGISTERED FIRM

The Quality System of  
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