

Weldcraft™ W-125 Series

Hand-Held Water-Cooled
TIG Welding Torches



QUICK SPECS

Models

W-125 Medium Micro
W-125 Long Micro

Applications

Aerospace
Food/beverage industry
HVAC
Automotive

Petro/chemical
Precision fabrication

Rated Output DC: 125 A, AC: 80 A

Duty Cycle 100%

Electrode Range .040–3/32 in. (1.0–2.4 mm)

W-125 Series TIG torches

The W-125 Series is comprised of water-cooled MicroTig torches designed for limited-access joints.

Small torch body designed for limited-access joints. The Medium Micro torch body is 4 inches while the Long Micro torch body is 5 inches.

Low-profile nozzle fits into holes as small as 5/8-inch diameter.

45-degree, 90-degree, and 180-degree options improve access in tight areas.

Lower maintenance costs incurred with the replaceable silicone rubber insulator and head components.

Note: Torches delivered may vary slightly from images shown.



Optional nozzles are available
(see page 3)



W-125 Medium Micro
(WP-125M)

W-125 Long Micro
(WP-125L)

TRUE BLUE
WARRANTY

Miller Electric Mfg. LLC
An ITW Welding Company
1635 West Spencer Street
P.O. Box 1079
Appleton, WI 54912-1079 USA

Equipment Sales US and Canada
Phone: 866-931-9730
International Phone: 920-735-4554

MillerWelds.com



Torch Packages

| MODELS | | BRAIDED RUBBER |
|--------------------|--------------------------|-----------------------|
| Name | Torch Body Length | 25 ft. (7.6 m) |
| W-125 Medium Micro | 4 in. (102 mm) | WP-125M-25-R |
| W-125 Long Micro | 5 in. (127 mm) | WP-125L-25-R |

Torch packages include torch body, handle, power cable, gas hose, water hose, 45-degree nozzle, 45-degree 1/16-inch chuck, and collet body wrench.

Connectors

1-piece power cable connectors



195377
50 mm Dinse-style with water return line for water-cooled torch.



301883
25 mm Dinse-style flow thru for gas and water return lines for water-cooled torch.



301884
50 mm Dinse-style connector that adapts machines with flow through gas valves to coolers.



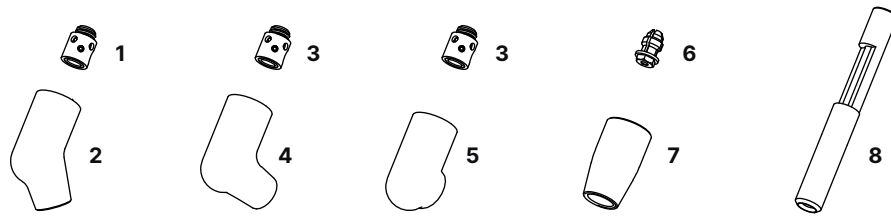
225028
50 mm thread-lock-style for water-cooled torch.



45V11
Power cable adapter for water-cooled torch.

| MACHINES | CONNECTION TYPE | 1-PIECE POWER CABLE CONNECTORS |
|---|-----------------------------|--------------------------------|
| TIG Machines | | |
| CST™ 280/282 | 50 mm Dinse-style | 195377 |
| Dynasty® 200/210/280/300/350/400 | 50 mm Dinse-style | 195377 |
| Dynasty® 700/800 | 50 mm thread-lock | 225028 |
| Maxstar® 200/210/280/350/400 | 50 mm Dinse-style | 195377 |
| Maxstar® 700/800 | 50 mm thread-lock | 225028 |
| Syncrowave® 200/210/212 | 50 mm Dinse-style gas thru | 301884 |
| Syncrowave® 250 DX/300/350 LX/400 | 50 mm Dinse-style | 195377 |
| | 1/2 in. stud | 45V11 |
| Multiprocess Machines | | |
| Dimension™ 302/452/NT 450/650/652 | 1/2 in. stud | 45V11 |
| Dynasty® 280 DX Multiprocess/300 Multiprocess | 50 mm Dinse-style | 195377 |
| Multimatic® 220 AC/DC | 25 mm Dinse-style gas thru | 301883 |
| Multimatic® 235/255 | 50 mm Dinse-style | 195377 |
| PipeWorx | 1/2 in. stud | 45V11 |
| XMT® 304/350/400 | 50 mm Dinse-style | 195377 |
| XMT® 450/650 | 1/2 in. stud | 45V11 |
| Engine-Driven Machines | | |
| Most Big Blue®, Trailblazer®, Bobcat™, Blue Star® and Wildcat® models | 1/2 in. stud | 45V11 |
| Big Blue® 450 Duo CST | 50 mm Dinse-style | 195377 |
| Other Adapter | | |
| | Stud to Dinse-style adapter | 232728 |

Consumables (Refer to Owner's Manual for additional replacement parts.)



| 45° NON-GAS LENS | | | |
|-----------------------------------|-------------------|-------------------|-------------------|
| Electrode Size — inch (mm) | .040 (1.0) | 1/16 (1.6) | 3/32 (2.4) |
| 1 Chuck 45° | 125C40-45 | 125C116-45 | 125C332-45 |
| 2 Quartz Nozzle 45° | 125N45Q | 125N45Q | 125N45Q |
| 90° NON-GAS LENS | | | |
| Electrode Size — inch (mm) | .040 (1.0) | 1/16 (1.6) | 3/32 (2.4) |
| 3 Chuck 90° | 125C40-90 | 125C116-90 | 125C332-90 |
| 4 Quartz Nozzle 90° | 125N90Q | 125N90Q | 125N90Q |
| 5 Quartz Nozzle 90° Short | 125N90SQ | 125N90SQ | 125N90SQ |
| 180° NON-GAS LENS | | | |
| Electrode Size — inch (mm) | .040 (1.0) | 1/16 (1.6) | 3/32 (2.4) |
| 6 Chuck 180° | 50C40 | 125C116 | — |
| 7 Quartz Nozzle 180° | 125N180Q | 125N180Q | — |
| CHUCK WRENCH | | | |
| 8 53N20 | | | |

*Not shown.

Tungsten

Tungsten for the most demanding TIG welding applications!

Available in four types and industry-standard diameters, our line of Weldcraft™ tungsten electrodes has undergone rigorous testing to ensure the highest quality and durability. Color-coded packages include ten 7-inch (175 mm) tungsten electrodes.

Note: Refer to manufacturer SDS sheets for proper preparation and safety. Use proper ventilation/capture during preparation. Refer to manufacturer warning regarding ventilation.



| Type | Diameter in. (mm) | Part # |
|---|-------------------|-----------------|
| 2% Ceriated (EWCe-2) | | |
| Performs well in DC welding and arc starting at low-current settings, and offers excellent performance in AC processes. | 0.040 (1.0) | WC040X7 |
| | 1/16 (1.6) | WC116X7 |
| | 3/32 (2.4) | WC332X7 |
| | 1/8 (3.2) | WC018X7 |
| | 5/32 (4.0) | WC532X7 |
| 2% Lanthanated (EWLa-2) | | |
| Provides excellent arc starting, arc stability and re-ignition, and less tip erosion in AC or DC welding. Can substitute for 2% Thoriated. | 0.040 (1.0) | WL2040X7 |
| | 1/16 (1.6) | WL2116X7 |
| | 3/32 (2.4) | WL2332X7 |
| | 1/8 (3.2) | WL2018X7 |
| | 5/32 (4.0) | WL2532X7 |
| Pure (EWP) | | |
| Forms a clean, balled end when heated and provides good arc stability for AC welding with a balanced or unbalanced squarewave or sine wave. | 0.040 (1.0) | — |
| | 1/16 (1.6) | WP116X7 |
| | 3/32 (2.4) | WP332X7 |
| | 1/8 (3.2) | WP018X7 |
| | 5/32 (4.0) | — |
| Rare Earth (EWG) | | |
| Combines the best of all alloying elements, and provides excellent arc stability in AC or DC welding. | 0.040 (1.0) | — |
| | 1/16 (1.6) | WG116X7 |
| | 3/32 (2.4) | WG332X7 |
| | 1/8 (3.2) | WG018X7 |
| | 5/32 (4.0) | — |

Replacement Parts

| | | |
|--|-------------------------|-----------------------|
| Torch Bodies | | |
| W-125 Medium | | WP-125M |
| W-125 Long | | WP-125L |
| Handles | | |
| Ribbed | | 53N06R |
| Knurled | | 53N06 |
| Boot Insulators | | |
| For W-125 Medium: 3.5 in. (88.9 mm) | | 125S35 |
| For W-125 Long: 5 in. (127 mm) | | 125S50 |
| Braided Rubber Power Cables and Hoses | | |
| | 12.5 ft. (3.8 m) | 25 ft. (7.6 m) |
| Power Cable | 45V03RR | 45V04RR |
| Water Hose* | 45V07RBB | 45V08RBB |
| Gas Hose* | 45V09R | 45V10R |
| Vinyl Power Cables and Hoses | | |
| | 12.5 ft. (3.8 m) | 25 ft. (7.6 m) |
| Power Cable | 45V03HD | 45V04HD |
| Water Hose* | 45V07HD | 45V08HD |
| Gas Hose* | 45V09 | 45V10 |

*Requires hose clamp 53N04.

Genuine Miller® Accessories



Accessory Kit AK125C

Includes one of each size (180°, 45°, 90°, 90° short) glass nozzle, and one of each size (.040, 1/16 inch) of the following: 180-degree chuck, 45-degree chuck, 90-degree chuck, and 7-inch 2% ceriated tungsten electrode.

Extension Kit

EK-1-25-R 25 ft. (7.6 m), rubber



Cable Cover

WC-3-10 10 ft. (3 m)

WC-3-22 22 ft. (6.7 m)



Wireless Remote Foot Control 301580

For remote current and contactor control. Receiver plugs directly into the 14-pin receptacle of Miller machine. 90-foot (27.4 m) operating range.



Wireless Remote Hand Control 301582

For remote current and contactor control. Receiver plugs directly into the 14-pin receptacle of Miller machine. 300-foot (91.4 m) operating range.



RCC-14 Remote Contactor and Current Control 151086

East/west rotary-motion fingertip control attaches to TIG torch using two hook-and-loop fasteners. Includes 26.5-foot (8 m) cord with 14-pin plug.



RCCS-14 Remote Contactor and Current Control 043688

North/south rotary-motion fingertip control attaches to TIG torch using two hook-and-loop fasteners. Includes 26.5-foot (8 m) cord with 14-pin plug.



Low-Conductivity TIG Coolant 043810

Must be ordered in quantities of four. One-gallon recyclable plastic bottle. Miller coolants contains a base of ethylene glycol and deionized water to protect against freezing to -37° Fahrenheit (-38°C) or boiling to 227° Fahrenheit (108°C).

Distributed by:

