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Weldcraft™ W-180

Formerly WP-24W

Hand-Held Water-Cooled TIG Welding Torches

Quick Specs

Model
W-180

Applications
Aerospace
Food/beverage industry
Light and heavy manufacturing
Maintenance and repair
Petro/chemical
Precision fabrication
Shipbuilding

Rated Output
DC: 180 A, AC: 115 A

Duty Cycle 100%

Electrode Range
.020–3/32 in. (0.5–2.4 mm)

W-180 TIG torch

Formerly known as the WP-24W, the W-180 is one of the smallest water-cooled TIG torches on the market. The W-180 is designed for welding in confined areas that require high amperage with the use of a water-cooled system.

Use high amperage in confined areas for efficient welding.

Superior maneuverability in limited-access locations with the compact torch body.

Excellent weld capacity without increasing torch size, due to the efficient cooling system.

Comfort and control are increased with the light, well-balanced body design.



W-180
(WP-24W)

Note: Torch delivered may vary slightly from image shown.

TRUE BLUE® WARRANTY

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MillerWelds.com

Certified System
ISO 9001 Quality

Torch Packages

Models		Braided Rubber	Vinyl
Old Model	New Name	25 ft. (7.6 m)	25 ft. (7.6 m)
WP-24W	W-180	WP-24W-25-R	WP-24W-25

Torch packages include torch body, handle, power cable, gas hose, water hose, and collet body wrench.

Connectors

Power cable connectors



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



195380
50 mm Dinse-style gas thru with gas and water return lines for water-cooled torch.



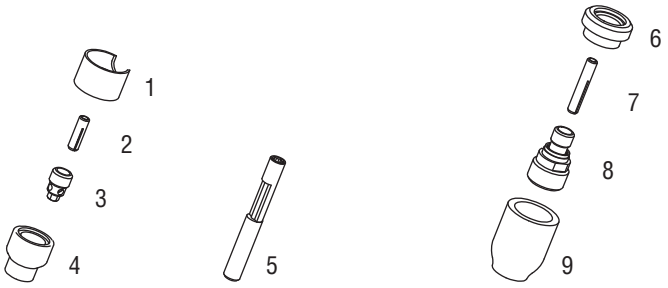
225028
50 mm thread-lock-style for water-cooled torch.



45V11
Power cable adapter for water-cooled torch.

Machines	Connection Type	1-Piece Power Cable Connectors
TIG Machines		
CST® 280 (Dinse)	50 mm Dinse-style	**195377**
Dynasty® 200/210/280/350/400	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	50 mm Dinse-style gas thru	**195380**
Syncrowave® 250 DX/300/350 DX (Dinse)	50 mm Dinse-style	**195377**
Syncrowave® 250 DX/300/350 DX (stud)	1/2 in. stud	**45V11**
Multiprocess Machines		
Dimension™ 302/452/NT 450/650/652	1/2 in. stud	**45V11**
Dynasty® 280 DX Multiprocess	50 mm Dinse-style	**195377**
Multimatic® 255	50 mm Dinse-style	**195377**
PipeWorx	1/2 in. stud	**45V11**
XMT® 304/350	50 mm Dinse-style	**195377**
XMT® 450	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**
General Reference		
	50 mm Dinse-style	**195377**
	50 mm Dinse-style gas thru	**195380**
	50 mm thread-lock	**225028**
	1/2 in. stud	**45V11**
Other Adapter		
	Stud to Dinse-style adapter	**232728**

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



Non-Gas Lens					
Electrode Size — inch (mm)	**.040 (1.0)**		**1/16 (1.6)**		**3/32 (2.4)**
1 Insulator (required)	**53N22**		**53N22**		**53N22**
2 Collet	**53N16**		**53N14**		**24C332**
3 Collet Body	**53N18**		**53N19**		**24CB332**
Nozzle Size — size # (inch)	**4 (1/4)**	**5 (5/16)**	**6 (3/8)**	**7 (7/16)**	**8 (1/2)**
4 Alumina	**A53N24**	**A53N25**	**A53N27**		
* Lava	**—**	**53N25**	**—**		

Collet Body Wrench
5 53N20

Gas Lens					
Electrode Size — inch (mm)	**.040 (1.0)**		**1/16 (1.6)**		**3/32 (2.4)**
6 Insulator (required)	**53N66**		**53N66**		**53N66**
7 Collet	**53N63**		**53N64**		**24GLC332**
8 Gas Lens	**45V42**		**45V43**		**45V44**
Nozzle Size — size # (inch)	**4 (1/4)**	**5 (5/16)**	**6 (3/8)**	**7 (7/16)**	**8 (1/2)**
9 Alumina Gas Lens	**53N58**	**53N59**	**53N60**	**53N61**	**53N61S**

**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**

Type	Diameter in. (mm)	Part #
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 Body		
W-180		**WP-24W**
Handles		
Ribbed		**H100R**
Knurled		**H100**
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

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



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



Wireless Remote Foot Control 300429
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 300430
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
Sold in multiples of four in 1-gallon recyclable plastic bottles. 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:

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The Power of Blue®

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