Weldcraft[™] W-500

Hand-Held Water-Cooled TIG Welding Torches

Formerly WP-12

Quick **Specs** Model

W-500

Applications

Aluminum ship repair Heavy fabrication Metal fabrication Pipe and tube fabrication Pressure vessel fabrication Tool and die Tube mills Vocational

Rated Output

DC: 500 A, AC: 350 A

Duty Cycle 100%

Electrode Range

1/16-1/4 in. (1.6-6.4 mm)







Miller Electric Mfg. Co.

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 FAX: 800-637-2315 International Phone: 920-735-4554 International FAX: 920-735-4125









Torch Packages

Models		Rubbe	r
Old Model	New Name	12.5 ft. (3.8 m)	25 ft. (7.6 m)
WP-12	W-500	WP-12-12	WP-12-25

Torch packages include torch body, handle, power cable, long back cap, gas hose, and water hose.

Connectors

Power cable connectors



19538050 mm Dinse-style gas thru with gas and water return lines for water-cooled torch.



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



45V11 Power cable adapter for water-cooled torch.

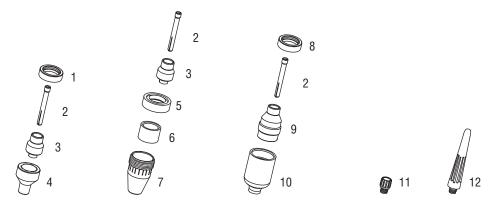


22502850 mm thread-lock-style for water-cooled torch.

Machines	Connection Type	1-Piece Power Cable Connectors	
TIG Machines			
Syncrowave® 200/210	50 mm Dinse-style gas thru	195380	
Syncrowave® 250 DX/350 DX (Dinse)	50 mm Dinse-style	195377	
Syncrowave® 250 DX/350 DX (stud)	1/2 in. stud	45V11	
Dynasty® 200/210/280/350, Maxstar® 200/210/280/350	50 mm Dinse-style	195377	
Dynasty® 700, Maxstar® 700	50 mm thread-lock	225028	
Multiprocess Machines			
Dimension™ 302/452/NT 450/652	1/2 in. stud	45V11	
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.)



Electrode Size — inch (mm)	1/16 (1.6)	3/32	(2.4)	1/8 (3.2)	5/32 (4.0)	3/16	(4.8)	1/4 (6.4)
1 Insulator (required)	12NG	12	NG	12NG	12NG	121	IG	12NG
2 Collet	85Z14	857	Z15	85Z16	85Z17	852	18	85Z19
3 Collet Body	11WP65	11W	/P65	11WP65	11WP65	11W	P65	11WP65
Nozzle Size — size # (inch)	4 (1/4)	5 (5/16)	6 (3/8)	7 (7/16)	8 (1/2)	10 (5/8)	12 (3/4)	Short
4 Alumina	14N57	14N58	14N59	14N60	14N61	14N61-10	14N61-12	_
* Long Alumina	14GL68	14GL69	14GL70	14GL71	14GL72	_	_	_
Metal Non-Gas Lens								
Electrode Size — inch (mm)	1/16 (1.6)	3/32	(2.4)	1/8 (3.2)	5/32 (4.0)	3/16	(4.8)	1/4 (6.4)
2 Collet	85Z14	852	Z15	85Z16	85Z17	85Z	18	85Z19
3 Collet Body	11WP65	11W	/P65	11WP65	11WP65	11W	P65	11WP65
5 Nozzle Gasket (required)	12MNG	121	ING	12MNG	12MNG	12MNG		12MNG
6 Insulator Sleeve (required)	85Z99	857	Z99	85Z99	85Z99	85Z	99	85Z99
Nozzle Size — size # (inch)	4 (1/4)	5 (5/16)	6 (3/8)	7 (7/16)	8 (1/2)	10 (5/8)	12 (3/4)	Short
7 Metal	_	_	_	_	86Z02	_	_	_
Gas Lens								
Electrode Size — inch (mm)	1/16 (1.6)	3/32	(2.4)	1/8 (3.2)	5/32 (4.0)	3/16	(4.8)	1/4 (6.4)
8 Insulator (required)	12GLG	120	GLG	12GLG	12GLG	12G	LG	12GLG
2 Collet	85Z14	852	Z15	85Z16	85Z17	85Z	18	85Z19
9 Gas Lens	11GL16	11G	L32	11GL18	11GL53	11G	L36	_
Nozzle Size — size # (inch)	4 (1/4)	5 (5/16)	6 (3/8)	7 (7/16)	8 (1/2)	10 (5/8)	12 (3/4)	Short
10 Large Dia. Gas Lens	_	_	57N75	_	57N74	53N88	53N87	53N89
* Large Dia. Gas Lens-L	_	_	57N75L	_	57N74L	53N88L	53N87L	_
* Large Dia. Gas Lens-XL	_	_	57N75XL	_	57N74XL	53N88XL	53N87XL	_
* Large Dia. Gas Lens-XXL	_	_	57N75XXL	_	57N74XXL	53N88XXL	53N87XXL	_
Back Caps								
11 Short 56Y45 12	Long 56Y44							

^{*}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.



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

Replacement Parts

Torch Body					
W-500	WP-12				
Handle					
Smooth	85WP13				
Braided Rubber Power Cables and Hoses					
	12.5 ft. (3.8 m)	25 ft. (7.6 m)			
Power Cable	40V84R	40V84RL			
Water Hose	40V83R	40V83RL			
Gas Hose	40V82R	40V82RL			

Genuine Miller® Accessories

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



Cable Covers WC-4-22 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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