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Weldcraft W-310 Formerly CS310

Hand-Held Water-Cooled TIG Welding Torches



Quick Specs Model

W-310

Applications

Aerospace Aluminum fabrication Aluminum ship repair Automotive Exotic material fabrication Light and heavy manufacturing Maintenance and repair Pipe and tube fabrication Precision metal fabrication Pressure vessel fabrication Shipbuilding Tool and die Tube and pipe Vocational **Rated Output** DC: 310 A, AC: 235 A

Duty Cycle 100%

Electrode Range .020-1/8 in. (0.5-3.2 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

Phone: 866-931-9730 FAX: 800-637-2315 International Phone: 920-735-4554 International FAX: 920-735-4125





Torch Packages

Models		Braided Rubber				
Old Model	New Name	12.5 ft. (3.8 m)	25 ft. (7.6 m)	50 ft. (15.2 m)		
CS310A	W-310	CS310-12	CS310-25	CS310-50		

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

Connectors

Power cable connectors



195380 50 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.

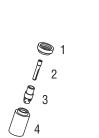


225028 50 mm thread-lock-style for water-cooled torch.

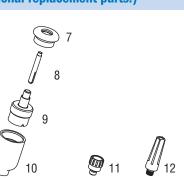
Machines	Connection Type	1-Piece Power Cable Connectors
TIG Machines		
Syncrowave® 200/210	50 mm Dinse-style gas thru	195380
Syncrowave® 250 DX/350 DX (Dinse)	50 mm Dinse-style	195377
Syncrowave® 250 DX/350 DX (stud)	1/2 in. stud	45V11
Dynasty® 200/210/280/350, Maxstar® 200/210/280/350	50 mm Dinse-style	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.)







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Electrode Size — inch (mm)	.020 (0.5)		.040 (1.0)		1/16 (1.6)		3/32 (2.4)	1/8	1/8 (3.2)	
1 Insulator (required) 598882		'	598882	,	598882		598882		598882	
2 Collet			13N21		13N22		13N23 13N24			
3 Collet Body	13N25		13N26		13N27				N29	
Nozzle Size — size # (inch)	3 (3/16)	4 (1/4)	5 (5/16)	6 (3/8)	7 (7/16)	8 (1/2)	10 (5/8)	12 (3/4)	Short	
4 Alumina	_	13N08	13N09	13N10	13N11	13N12	13N13	_	_	
* Lava	_	13N14	13N15	13N16	13N17	13N18	13N19	_	_	
* Long Lava	796F70	796F71	796F72	796F73		_		_	_	
* X-Long Lava	796F74	796F75	796F76	796F77	_	_	_	_	_	
Gas Lens							1			
Electrode Size — inch (mm)	.020 (0.5)	.040 (1.0)	1/16 (1.6)		3/32 (2.4)	1/8	(3.2)	
1 Insulator (required)	598882		598882		598882 5988		598882	598882		
2 Collet	13N20		13N21		13N22 13N23		13N24			
5 Gas Lens	45V41		45V42		45V43 45V44		45V44	45V45		
Nozzle Size — size # (inch)	3 (3/16)	4 (1/4)	5 (5/16)	6 (3/8)	7 (7/16)	8 (1/2)	10 (5/8)	12 (3/4)	Short	
6 Alumina Gas Lens	_	53N58	53N59	53N60	53N61	53N61S	_	_	_	
Large Diameter Gas Lens				1			1	1		
Electrode Size — inch (mm)	.020 (0.5)		.040 (1.0)		1/16 (1.6)		3/32 (2.4) 1		/8 (3.2)	
7 Insulator (required) 54N63-20		-20	54N63-20		54N63-20	54N63-20		54N63-20		
8 Collet 13N20L		OL	13N21L		13N22L	13N23L		13N24L		
9 Large Diameter Gas Lens	as Lens 45V0204S		45V0204S		45V116S		45V64S		9957958	
Nozzle Size — size # (inch)	3 (3/16)	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										
•	2 Medium 41V	35	13 Long 41V2	4						

*Not shown.



Tungsten

Tungsten for the most demanding TIG welding applications!

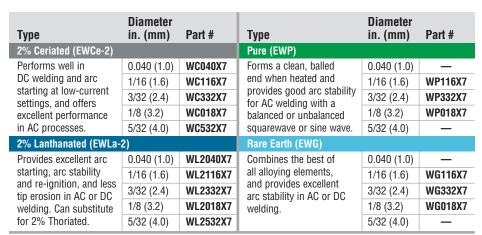
Available in four types and industry-standard diameters, our line of Weldcraft[™] tungsten electrodes has undergone rigorous testing to ensure the highest quality and durability. Color-coded packages include ten 7-inch (175 mm) tungsten electrodes.

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



Replacement Parts

W-310					
D-Handle					
Braided Rubber Power Cables					
25 ft. (7.6 m)	50 ft. (15.2 m)				
269765	269759				
Braided Rubber Water Hoses					
25 ft. (7.6 m)	50 ft. (15.2 m)				
CS310-25W	CS310-50W				
Braided Rubber Gas Hoses					
25 ft. (7.6 m)	50 ft. (15.2 m)				
CS310-25G	CS310-50G				
	25 ft. (7.6 m) 269765 r Water Hoses 25 ft. (7.6 m) CS310-25W r Gas Hoses 25 ft. (7.6 m)				



Genuine Miller® Accessories



Accessory Kit AK4C Includes one long back cap, one of each size (#5, #6, #7) alumina

nozzle, and one of each size (1/16, 3/32, 1/8 inch) of the following: collet, collet body, and 7-inch 2% ceriated tungsten electrode.



Extension Kit

Cable Covers WC-3-10 10 ft. (3 m) WC-3-22 22 ft. (6.7 m) WC-3-48 48 ft. (14.6 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).



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