Weldcraft W-350 Series Hand-Held Water-Cooled TIG Welding Torches

Quick W-350 W-350 Valve Specs

Applications

Aluminum fabrication Aluminum ship repair Automotive Exotic material fabrication Light and heavy manufacturing Maintenance and repair Metal fabrication Pipe and tube fabrication Pressure vessel fabrication Shipbuilding Tool and die Tube and pipe Vocational

Rated Output DC: 350 A, AC: 250 A

Duty Cycle 100%

Electrode Range .020-5/32 in. (0.5-4.0 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			Rubber	Vinyl		
Old Model	New Name	12.5 ft. (3.8 m)	25 ft. (7.6 m)	12.5 ft. (3.8 m)	25 ft. (7.6 m)	
WP-18	W-350	WP-18-12-R	WP-18-25-R	WP-18-12	WP-18-25	
WP-18V	W-350 Valve	_	WP-18V-25-R	-	WP-18V-25	

V = Valve

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

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.

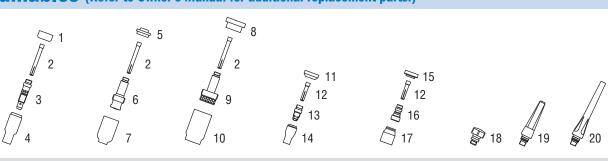


225028 50 mm thread-lock-style for water-cooled torch.

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



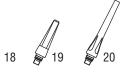
Consumables (Refer to Owner's Manual for additional replacement parts.)











Electrode Size — inch (mm)	.020 (0.5)	.040	(1.0)	1/16 (1.6)	3/32 (2.4)	1/8 (3.2)	5/32 (4.0)	
1 Insulator (required)	18CG		CG	18CG	18CG	180		18CG	
2 Collet	10N21	10	N22	10N23	10N24	10N	25	54N20	
3 Collet Body	10N29		N30	10N31	10N32	10N	28	406488	
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	10N50	10N49	10N48	10N47	10N46	10N45	10N44	_	
* Long Alumina		10N49L	10N48L	10N47L	_	_	_	_	
* Lava	105Z43	105Z42	105Z44	105Z45	08N78	08N79	08N80	_	
* Long Lava	12N03	105Z60	12N02	105Z61	_	_	_	_	
Gas Lens				1	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)	5/32 (4.0)	
5 Insulator (required)	54N01		N01	54N01	54N01	54N		54N01	
2 Collet	10N21	10	N22	10N23	10N24	10N	25	54N20	
6 Gas Lens	45V29	45	V24	45V25	45V26	45V	27	45V28	
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 Alumina Gas Lens	54N18	54N17	54N16	54N15	54N14	_	_	54N19	
* Long Gas Lens	_	54N17L	54N16L	54N15L	_	_	_		
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	3.2)	5/32 (4.0)	
8 Insulator (required) 54N63			54N63		54N63	54N	,	54N63	
2 Collet 10N21			10N22		10N24	10N		54N20	
9 Large Diameter Gas Lens	45V0204	45V	45V0204 45		45V64	9957	795	45V63	
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	_	
Stubby Non-Gas Lens				1	1	1			
Electrode Size — inch (mm)	.020 (0.5	j)	.040 (1.0)	1/16	(1.6)	3/32 (2.4)		1/8 (3.2)	
11 Insulator (required)	18CG20	-	18CG20	180		18CG20		18CG20	
12 Stubby Collet					23S 10N24S		10N25S		
13 Stubby Collet Body	17CB20		17CB20	17CB20		17CB20		17CB20	
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	
14 Stubby Alumina	13N08	13N09	13N10	13N11	13N12	13N13		_	
Stubby Gas Lens							I		
Electrode Size — inch (mm)	.020 (0.5	i)	.040 (1.0)	1/16	(1.6)	3/32 (2.4)		1/8 (3.2)	
15 Insulator (required)			17GLG20		1/16 (1.6) 17GLG20			17GLG20	
12 Stubby Collet	_	-	10N22S	10N		17GLG20 10N24S		10N25S	
16 Stubby Gas Lens			17GL040	17G		17GL332		17GL18	
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	
17 Alumina Gas Lens	53N58	53N59	53N60	53N61	53N61S				
Back Caps	001100	00/100	0000	CONTON	0011010				

*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

Torch Bodies	
W-350	WP-18
W-350 Valve	WP-18V
Handles	
W-350 (ribbed)	H-200R
W-350 Valve (knurled)	H-200
Valve Knob	
W-350 Valve	VS-1

Braided Rubber Power Cables and Hoses

	12.5 ft. (3.8 m)	25 ft. (7.6 m)
Power Cable	40V64R	41V29R
Water Hose	40V74R	41V32R
Gas Hose	40V75R18	41V30R18
Vinvl Power C	ahles and Hoses	

	12.5 ft. (3.8 m)	25 ft. (7.6 m)
Power Cable	40V64	41V29
Water Hose	40V74	41V32
Gas Hose	40V75	41V30

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 in AC processes.	1/8 (3.2)	WC018X7		1/8 (3.2)	WP018X7
	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)	

Genuine Miller® Accessories



Accessory Kit AK3C

Includes one short back cap, one of each size (#5, #6, #8)

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.



Accessory Kit MAK-2S Includes one short and one long back cap, four back cap o-rings, two cup gaskets, one gas lens insulator, and one of each size (.040, 1/16, 3/32,

1/8 inch) gas lens. Also includes the following: ten collets (1) .040, (3) 1/16, (3) 3/32, (2) 1/8, (1) 5/32; and eight collet bodies (1) .040, (2) 1/16, (2) 3/32, (2) 1/8, (1) 5/32.

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

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

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: