

Weldcraft™ W-400

Formerly WP-18SC

Hand-Held Water-Cooled
TIG Welding Torches 

Quick Specs

Model

W-400 Super Cool

Applications

Aluminum Ship Repair
Exotic Material Fabrication
Heavy Fabrication
Metal Fabrication
Pipe and Tube Fabrication

Pressure Vessel Fabrication
Tool and Die
Tube Mills
Vocational

Rated Output

DC: 400 A, AC: 280 A

Duty Cycle 100%

Electrode Range

.020–3/16 in. (0.5–4.8 mm)



W-400 Super Cool
(WP-18SC)

W-400 Super Cool™ TIG Torch

Formerly known as the WP-18SC, the W-400 Super Cool is designed to endure some of the most demanding applications while minimizing overheating. The W-400 Super Cool is engineered with cost-effective solutions for high-amperage welding challenges.

Extend torch and consumable life with the full-flow water chamber that provides around-the-head cooling.

Improve gas coverage and cooling capacity with gas lens usage with heavy-duty stubby collet body.

Extend parts life using the durable copper components, maximizing current capacity.

Comfort and maximum torch control with the textured handle.

Note: Torch delivered may vary slightly from image shown.



Torch is warranted for 1 year parts.



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Torch Packages

Models		Rubber		Vinyl
Old Model	New Name	12.5 ft. (3.8 m)	25 ft. (7.6 m)	25 ft. (7.6 m)
WP-18SC	W-400 Super Cool™	WP-18SC-12-R	WP-18SC-25-R	WP-18SC-25

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

Connectors

Power Cable Connectors



195 380
50-mm Dinse-style gas thru with gas and water return lines for water-cooled torch.



195 377
50-mm Dinse-style with water return line for water-cooled torch.



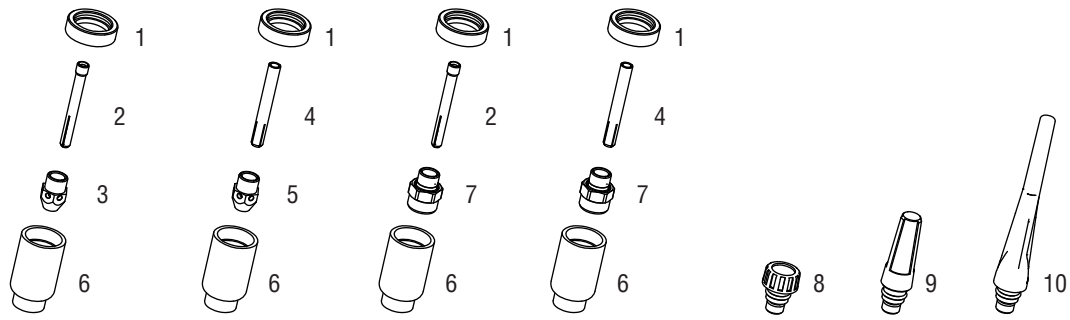
45V11
Power cable adapter for water-cooled torch.



225 028
50-mm thread-lock-style for water-cooled torch.

Machines	Connection Type	1-Piece Power Cable Connector
TIG Machines		
Syncrowave® 200/210	50-mm Dinse, Gas Thru	195 380
Syncrowave® 250 DX/350 DX (Dinse)	50-mm Dinse	195 377
Syncrowave® 250 DX/350 DX (Stud)	1/2-in. Stud	45V11
Dynasty® 200/280/350, Maxstar® 200/280/350	50-mm Dinse	195 377
Dynasty® 700, Maxstar® 700	50-mm Thread-Lock	225 028
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	195 377
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	195 377
General Reference		
	50-mm Dinse	195 377
	50-mm Dinse, Gas Thru	195 380
	50-mm Thread-Lock	225 028
	1/2-in. Stud	45V11
Other Adapter		
	Stud to Dinse Adapter	232 728

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



Non-Gas Lens

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)	3/16 (4.8)	
1 Insulator (required)	18NG	18NG	18NG	18NG	18NG	18NG	18NG	
2 Collet	10N21	10N22	10N23	10N24	10N25	—	—	
3 Collet Body	NCB-53	NCB-53	NCB-53	NCB-53	NCB-53	—	—	
4 Heavy-Duty Collet	—	—	—	—	10N25HD	54N20HD	18C36	
5 HD Nose Collet Body	—	—	—	—	NCB-36	NCB-36	NCB-36	
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
6 Alumina	54N18	54N17	54N16	54N15	54N14	—	—	54N19
* Long Alumina	—	54N17L	54N16L	54N15L	—	—	—	—

Gas Lens

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)	3/16 (4.8)	
1 Insulator (required)	18NG	18NG	18NG	18NG	18NG	18NG	18NG	
2 Collet	10N21	10N22	10N23	10N24	10N25	—	—	
4 Heavy-Duty Collet	—	—	—	—	10N25HD	54N20HD	18C36	
7 Gas Lens	18GL02	18GL04	18GL16	18GL32	18GL18	18GL53	18GL36	
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
6 Alumina Gas Lens	54N18	54N17	54N16	54N15	54N14	—	—	54N19
* Long Gas Lens	—	54N17L	54N16L	54N15L	—	—	—	—

Back Caps

8 Short 57Y04 9 Medium 300M 10 Long 57Y02

*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 seven-inch (175 mm) tungsten electrodes.

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



Type	Diameter in. (mm)	Part #	Type	Diameter in. (mm)	Part #
2% Ceriated (EWCe-2)			Pure (EWP)		
Performs well in DC welding and arc starting at low-current settings, and offers excellent performance in AC processes.	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)	—
	1/16 (1.6)	WC116X7		1/16 (1.6)	WP116X7
	3/32 (2.4)	WC332X7		3/32 (2.4)	WP332X7
	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 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	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)	WL2116X7		1/16 (1.6)	WG116X7
	3/32 (2.4)	WL2332X7		3/32 (2.4)	WG332X7
	1/8 (3.2)	WL2018X7		1/8 (3.2)	WG018X7
	5/32 (4.0)	WL2532X7		5/32 (4.0)	—

Genuine Miller® Accessories



Wireless Remote Foot Control #300 429
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 #300 430

For remote current and contactor control. Receiver plugs directly into the 14-pin receptacle of Miller machine.

300-foot (91.4 m) operating range.



RCCS-14 Remote Contactor and Current Control #043 688

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



RCC-14 Remote Contactor and Current Control #151 086

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



Cable Covers

#WC-3-10

10 ft. (3 m)

#WC-3-22

22 ft. (6.7 m)

Extension Kit

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



Low-Conductivity TIG Coolant #043 810

Sold in multiples of four in one-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).



#AK18C Accessory Kit

Includes one short back cap, one of each size (#6, #7, #8) alumina nozzle, one of each size (3/32, 1/8 HD, 5/32 HD) collet, one of each size (.020–1/8 inch, 1/8–3/16 inch) collet body, and one of each size (3/32, 1/8, 5/32 inch) 7-inch 2% ceriated tungsten electrode.

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