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Weldcraft™ A-250 Series

Hand-Held Air-Cooled TIG Welding Torches

Quick Specs

Models
A-250
A-250 Valve

Applications
Fabrication
Maintenance and repair
Manufacturing
Shipbuilding
Vocational

Rated Output
DC: 250 A, AC: 188 A

Duty Cycle 60%

Electrode Range
.020–5/32 in. (0.5–4.0 mm)

A-250 Series TIG torches

The A-250 Series is a high-amperage air-cooled torch designed for heavy-duty welding applications without needing to be water-cooled.

Eliminate the expense of a water-cooled system. The air-cooled capability pairs reliability with cost-effectiveness for all field applications.

Robust performance. The heavy copper construction delivers optimal welding capacity for rugged fieldwork.

Effortless adjustments. The A-250 Valve provides a gas control valve to ensure a quick, easy adjustment of shielding gas flow.

Note: Torches delivered may vary slightly from images shown.



A-250
(301525)

A-250 Valve
(301526)

TRUE BLUE® WARRANTY

Miller Electric Mfg. LLC
An ITW Welding Company
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P.O. Box 1079
Appleton, WI 54912-1079 USA

Equipment Sales US and Canada
Phone: 866-931-9730
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MillerWelds.com

Certified System
ISO 9001
Quality

Torch Packages

Models	2-Piece Power Cable, Rubber
Name	**25 ft. (7.6 m)**
A-250	**301525025**
A-250 Valve	**301526025**

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

Connector

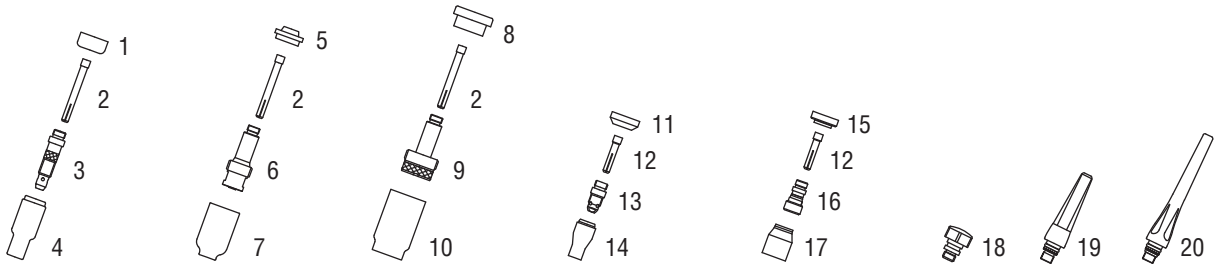
2-piece power cable connector



129527
50 mm Dinse-style for two-piece cable air-cooled torch.

Machines	Connection Type	2-Piece Power Cable Connector
TIG Machines		
Syncrowave® 250 DX/350 LX (Dinse)	50 mm Dinse-style	**129527**
Syncrowave® 250 DX/350 LX (stud)	1/2 in. stud	N/A
Dynasty® 210/280/400 and Maxstar® 210/280/400	50 mm Dinse-style	**129527**
Multiprocess Machines		
Dynasty® 280 DX Multiprocess	50 mm Dinse-style	**129527**
Dimension™ 302/452/NT 450/652	1/2 in. stud	N/A
PipeWorx	1/2 in. stud	N/A
XMT® 304/350	50 mm Dinse-style	**129527**
XMT® 450	1/2 in. stud	N/A
Engine-Driven Machines		
Most Big Blue®, Trailblazer®, Bobcat™, Blue Star® and Wildcat® models	1/2 in. stud	N/A
Big Blue® 450 Duo CST	50 mm Dinse-style	**129527**
General Reference		
	50 mm Dinse-style	**129527**
	50 mm Dinse-style gas thru	N/A
	1/2 in. stud	N/A

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)
1 Insulator (required)	18CG	18CG	18CG	18CG	18CG	18CG
2 Collet	10N21	10N22	10N23	10N24	10N25	54N20
3 Collet Body	10N29	10N30	10N31	10N32	10N28	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

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	54N01	54N01	54N01	54N01	54N01
2 Collet	10N21	10N22	10N23	10N24	10N25	54N20
6 Gas Lens	45V29	45V24	45V25	45V26	45V27	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

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)
8 Insulator (required)	54N63	54N63	54N63	54N63	54N63	54N63
2 Collet	10N21	10N22	10N23	10N24	10N25	54N20
9 Large Diameter Gas Lens	45V0204	45V0204	45V116	45V64	995795	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

Electrode Size — inch (mm)	.020 (0.5)	.040 (1.0)	1/16 (1.6)	3/32 (2.4)	1/8 (3.2)
11 Insulator (required)	18CG20	18CG20	18CG20	18CG20	18CG20
12 Stubby Collet	—	10N22S	10N23S	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

Electrode Size — inch (mm)	.020 (0.5)	.040 (1.0)	1/16 (1.6)	3/32 (2.4)	1/8 (3.2)
15 Insulator (required)	17GLG20	17GLG20	17GLG20	17GLG20	17GLG20
12 Stubby Collet	—	10N22S	10N23S	10N24S	10N25S
16 Stubby Gas Lens	—	17GL040	17GL116	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

18 Short **57Y04** **19** Medium **300M** **20** 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 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 Bodies	
A-250	**301525**
A-250 Valve	**301526**
Handles	
A-250 (ribbed)	**H-200R**
A-250 Valve (knurled)	**H-200**
Valve Knob	
All valve models	**VS-1**

Genuine Miller® Accessories



Accessory Kit AK3GL
Includes one short back cap, one of each size (#6, #7, #8) alumina nozzle, and one of each size (1/16, 3/32, 1/8 inch) of the following: gas lens, collet, and 7-inch 2% ceriated tungsten electrode.



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.



Cable Cover 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.

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