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Weldcraft™ Modular Series

Hand-Held TIG Welding Torches

Quick Specs

Models	Type	Rated Output*	Duty Cycle	Electrode Range*
A-150 Modular / A-150 Modular Valve	Air-cooled	DC: 150 A, AC: 105 A	60%	.020–1/8 in. (0.5–3.2 mm)
A-200 Modular Valve	Air-cooled	DC: 200 A, AC: 150 A	60%	.020–5/32 in. (0.5–4.0 mm)
W-225 Modular	Water-cooled	DC: 225 A, AC: 160 A	100%	.020–5/32 in. (0.5–4.0 mm)

*See page 3.

Modular Series TIG torches

The Modular Series is engineered with high-performing air-cooled and water-cooled technology to ensure that you can weld multiple joint configurations for various applications and angles.



Note: Torches delivered may vary slightly from images shown.

Built-in, efficient cooling system reduces overheating to extend parts and consumable life.

Modular design minimizes costs and downtime for torch changeover and parts inventory.

Easy configurable head options provide greater versatility and joint access, and minimize downtime for torch changeover.

Gas valve provides greater shielding gas flow control (A-150 Modular Valve and A-200 Modular Valve).

TRUE BLUE® WARRANTY

Miller®

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An ITW Welding Company
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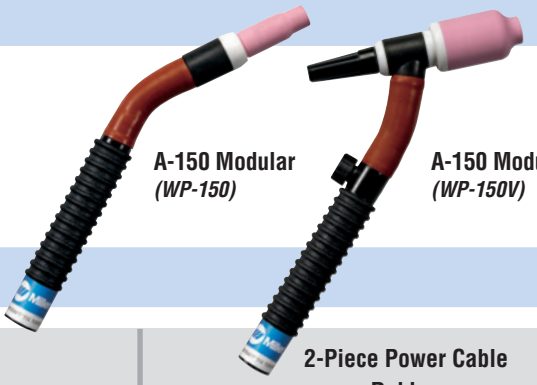
MillerWelds.com

ISO 9001 REGISTERED QUALITY SYSTEM

A-150 Modular Series

Applications Fabrication, maintenance and repair, aerospace, metal art, food and beverage industry, petro/chemical, shipbuilding

Type	Rated Output	Duty Cycle	Electrode Range
Air-cooled	DC: 150 A, AC: 105 A	60%	.020–1/8 in. (0.5–3.2 mm)



A-150 Modular *(WP-150)*

A-150 Modular Valve *(WP-150V)*

A-150 Modular Series Torch Packages

Models		1-Piece Power Cable Rubber		2-Piece Power Cable Rubber	
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-150	A-150 Modular	**WP-150-12-R**	**WP-150-25-R**	**WP-150-12-2**	**WP-150-25-2**
WP-150V	A-150 Modular Valve	**WP-150V-12-R**	**WP-150V-25-R**	**WP-150V-12-2**	**WP-150V-25-2**

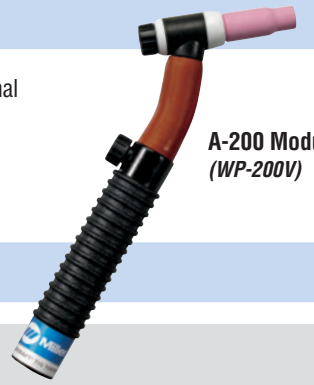
***V** = Valve*

Torch packages include torch body, handle, power cable, 150CE and 150SE elements, and 1726 and 9-70 torch heads.

A-200 Modular Series

Applications Fabrication, maintenance and repair, manufacturing, shipbuilding, vocational

Type	Rated Output	Duty Cycle	Electrode Range
Air-cooled	DC: 200 A, AC: 150 A	60%	.020–5/32 in. (0.5–4.0 mm)



A-200 Modular Valve *(WP-200V)*

A-200 Modular Series Torch Packages

Models		1-Piece Power Cable Rubber	
Old Model	New Name	12.5 ft. (3.8 m)	25 ft. (7.6 m)
WP-200V	A-200 Modular Valve	**WP-200V-12-R**	**WP-200V-25-R**

***V** = Valve*

Torch packages include torch body, handle, power cable, 200CE and 200SE elements, and 1726 and 1726P torch heads.

Individual Components

Component	A-150 Modular	A-200 Modular
Torch Body	**150TB**	**200TB**
Valve Torch Body	**150VTB**	**200VTB**
Flexible Element	**150CE**	**200CE**
Solid Element	**150SE**	**200SE**
Handle	**105Z55R**	**10N15R**

W-225 Modular Series

Applications Aerospace, dairy, food and beverage industry, light and heavy manufacturing, maintenance and repair, petro/chemical, precision fabrication, shipbuilding, tube and pipe, vocational

Type	Rated Output	Duty Cycle	Electrode Range
Water-cooled	DC: 225 A, AC: 160 A	100%	.020–5/32 in. (0.5–4.0 mm)



W-225 Modular
(WP-225)

W-225 Modular Series Torch Packages

Models		Braided 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-225	W-225 Modular	**WP-225-12-R**	**WP-225-25-R**	**WP-225-12**	**WP-225-25**

Torch packages include torch body, handle, power cable, gas hose, water hose, and 1726 and 9-70 torch heads.

Torch Heads



24 **24-90** **9-70** **9-90** **9P** **1726** **1726P**

Torch Head	Angle	Electrode Range	A-150 Modular* DC	A-150 Modular* Amp Rating	A-150 Modular* AC	A-200 Modular* DC	A-200 Modular* Amp Rating	A-200 Modular* AC	W-225 Modular** DC	W-225 Modular** Amp Rating	W-225 Modular** AC
24	70°	.020–3/32 in. (0.5–2.4 mm)	80		50	80		50	160		115
24-90	90°	.020–3/32 in. (0.5–2.4 mm)	80		50	80		50	160		115
9-70	70°	.020–1/8 in. (0.5–3.2 mm)	125		100	125		100	200		140
9-90	90°	.020–1/8 in. (0.5–3.2 mm)	125		100	125		100	200		140
9P	180°	.020–1/8 in. (0.5–3.2 mm)	125		100	125		100	200		140
1726	70°	.020–5/32 in. (0.5–4.0 mm)	150		115	200		140	225		160
1726P	180°	.020–5/32 in. (0.5–4.0 mm)	150		115	200		140	225		160

**60% duty cycle.* ***100% duty cycle.*

Modular Series Connectors

A-150 / A-200 1-piece power cable connectors



194722 / 194723
50 mm Dinse-style gas thru for one-piece air-cooled torch.



195378 / 195379
50 mm Dinse-style for one-piece air-cooled torch.



105Z57
Power cable adapter for one-piece A-150 torch.



45V62
Power cable adapter for one-piece A-200 torch.

A-150 / A-200 2-piece power cable connector



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

W-225 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.



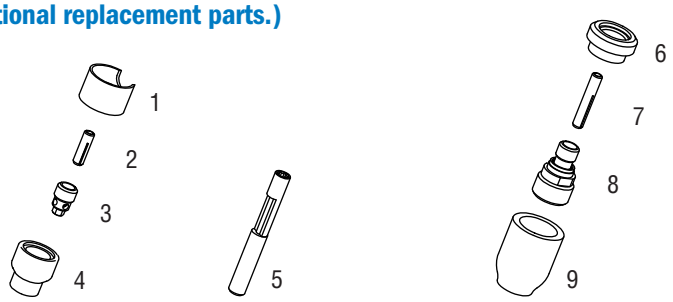
225028
50 mm thread-lock-style for water-cooled torch.

Machines	Connection Type	A-150 Power Cable Connectors 1-Piece	A-150 Power Cable Connectors 2-Piece	A-200 Power Cable Connectors 1-Piece	A-200 Power Cable Connectors 2-Piece	W-225 Power Cable Connectors
TIG Machines						
Syncrowave® 200/210	50 mm Dinse-style gas thru	**194722**	**129527***	**194723**	**129527***	**195380**
Syncrowave® 250 DX/350 DX (Dinse)	50 mm Dinse-style	**195378**	**129527**	**195379**	**129527**	**195377**
Syncrowave® 250 DX/350 DX (stud)	1/2 in. stud	**105Z57**	N/A	**45V62**	N/A	**45V11**
Maxstar® 150 STL/STH	25 mm Dinse-style gas thru	**273483**	**127836***	N/A	N/A	N/A
Dynasty® 200/210/280/350, Maxstar® 200/210/280/350	50 mm Dinse-style	**195378**	**129527**	**195379**	**129527**	**195377**
Dynasty® 700, Maxstar® 700	50 mm thread-lock	N/A	N/A	N/A	N/A	**225028**
Multiprocess Machines						
Multimatic™ 200	25 mm Dinse-style gas thru	**273483**	**127836***	N/A	N/A	N/A
Dimension™ 302/452/NT 450/652	1/2 in. stud	**105Z57**	N/A	**45V62**	N/A	**45V11**
PipeWorx	1/2 in. stud	**105Z57**	N/A	**45V62**	N/A	**45V11**
XMT® 304/350	50 mm Dinse-style	**195378**	**129527**	**195379**	**129527**	**195377**
XMT® 450	1/2 in. stud	**105Z57**	N/A	**45V62**	N/A	**45V11**
Engine-Driven Machines						
Most Big Blue®, Trailblazer®, Bobcat™, Blue Star® and Wildcat® models	1/2 in. stud	**105Z57**	N/A	**45V62**	N/A	**45V11**
Big Blue® 450 Duo CST	50 mm Dinse-style	**195378**	**129527**	**195379**	**129527**	**195377**
General Reference						
	25 mm Dinse-style gas thru	**273483**	N/A	N/A	N/A	N/A
	50 mm Dinse-style	**195378**	**129527**	**195379**	**129527**	**195377**
	50 mm Dinse-style gas thru	**194722**	N/A	**194723**	N/A	**195380**
	50 mm thread-lock	N/A	N/A	N/A	N/A	**225028**
	1/2 in. stud	**105Z57**	N/A	**45V62**	N/A	**45V11**
Other Adapter						
	Stud to Dinse-style adapter	**232728**	**N/A**	**232728**	**N/A**	**232728**

**2-piece power cable connector is not gas thru.*

24 and 24-90 Modular Series 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 Insulator (required)	**53N22**	**53N22**	**53N22**	**53N22**
2 Collet	**53N15**	**53N16**	**53N14**	**24C332**
3 Collet Body	**53N17**	**53N18**	**53N19**	**24CB332**
Nozzle Size — size # (inch)	**.165**	**4 (1/4)**	**5 (5/16)**	**6 (3/8)**
4 Alumina	—	**A53N24**	**A53N25**	**A53N27**
* Lava	**53N23**	**53N24**	**53N25**	**53N27**
* Long Lava	—	**53N28**	—	**53N26**

Collet Body Wrench
5 53N20

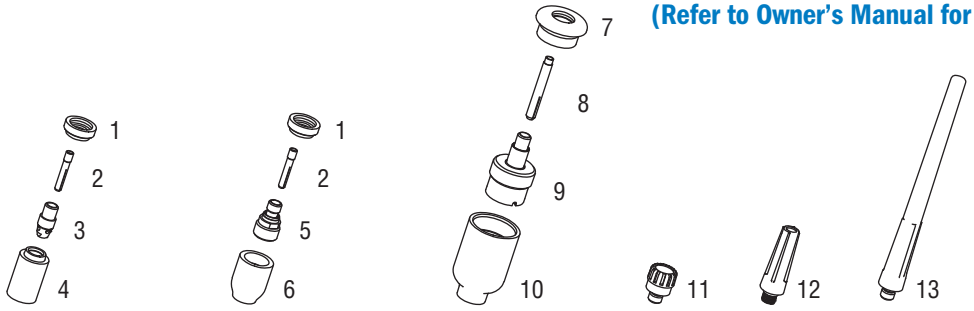
Gas Lens				
Electrode Size — inch (mm)	**.020 (0.5)**	**.040 (1.0)**	**1/16 (1.6)**	**3/32 (2.4)**
6 Insulator (required)	**53N66**	**53N66**	**53N66**	**53N66**
7 Collet	**53N62**	**53N63**	**53N64**	**24GLC332**
8 Gas Lens	**45V41**	**45V42**	**45V43**	**45V44**

Nozzle Size — size # (inch)	**4 (1/4)**	**5 (5/16)**	**6 (3/8)**	**7 (7/16)**	**8 (1/2)**
9 Alumina Gas Lens	**53N58**	**53N59**	**53N60**	**53N61**	**53N61S**

**Not shown.*

9-70, 9-90 and 9P Modular Series Consumables

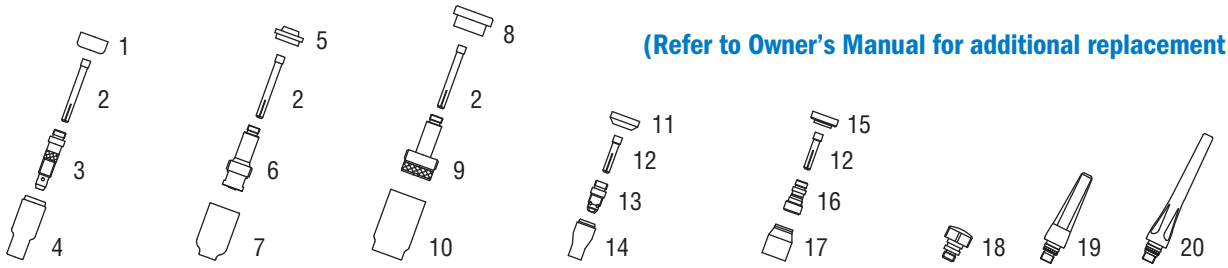
(Refer to Owner's Manual for additional replacement parts.)



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)**
1 Insulator (required)	**598882**		**598882**		**598882**		**598882**		**598882**
2 Collet	**13N20**		**13N21**		**13N22**		**13N23**		**13N24**
3 Collet Body	**13N25**		**13N26**		**13N27**		**13N28**		**13N29**
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									
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**		**598882**		**598882**
2 Collet	**13N20**		**13N21**		**13N22**		**13N23**		**13N24**
5 Gas Lens	**45V41**		**45V42**		**45V43**		**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									
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**		**54N63-20**		**54N63-20**		**54N63-20**		**54N63-20**
8 Collet	**13N20L**		**13N21L**		**13N22L**		**13N23L**		**13N24L**
9 Large Diameter Gas Lens	**45V0204S**		**45V0204S**		**45V116S**		**45V64S**		**995795S**
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									
11 Short **41V33**	**12** Medium **41V35**		**13** Long **41V24**						

**Not shown.*

1726 and 1726P Modular Series 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)	—

Genuine Miller® Accessories



Accessory Kit AK-150MFC
Allows welding operators to customize their standard A-150 (WP-17) or A-125 (WP-9) TIG torch for their specific application. Kit converts into 28 different torch styles while using the A-150 and A-125 existing cable. Includes collets, collet bodies, nozzles, torch heads, handle and more.



Accessory Kit AK-225MFC
Supplements W-225 (WP-225) modular torch packages. Includes five additional torch heads, collets, collet bodies, nozzles, handle and more.



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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