



Miller® | Weldcraft®

TIG Torch and Accessories
Quick Reference Guide



Brand Consolidation

Weldcraft is now Miller®

At Miller, we want to make it easier for you to find the equipment and accessories you need. Integrating Weldcraft into the Miller brand enables us to offer you more TIG equipment and torch solutions, with the goal of ultimately creating a “one-stop shop” at Miller. We look forward to serving all your TIG needs with the highest quality products and the most innovative TIG welding system solutions.



Same great product. New Miller look.

Weldcraft is now Miller! You will receive the same high-quality, high-performing products. Brand changes include:

1. Weldcraft product packaging and labels are now Miller.
2. Weldcraft product markings will transition to Miller.
3. Weldcraft torch colors have changed from red to black (excluding the Redhead™ series).
4. New Miller | Weldcraft literature and product webpages are available on MillerWelds.com.

This reference guide will help you quickly understand the Miller | Weldcraft product line and the exciting changes that Miller has to offer. Inside, you'll find:

- New product line naming
- Air-cooled solutions
- Water-cooled solutions
- Specialty torch solutions
- Recommended products by application
- Tungsten product line
- New webpages, located on MillerWelds.com

New product naming

The Weldcraft name remains, but is now positioned as the TIG torches and accessories product line within the Miller brand.

Previous Product Name	New Product Name Breakdown			New Product Name
	<i>Product Line Descriptor</i>	<i>Air vs. Water-Amperage</i>	<i>Featured Label Set</i>	
WP-9FV	Weldcraft®	A-125	Flex Valve	Weldcraft® A-125 Flex Valve
WP-17F	Weldcraft®	A-150	Flex	Weldcraft® A-150 Flex
WP-225	Weldcraft®	W-225	Modular	Weldcraft® W-225 Modular
CS310	Weldcraft®	W-310		Weldcraft® W-310

Note: New product line naming is effective November 2013.

Defined above, the Weldcraft A-125 Flex Valve was previously referred to as the WP-9FV. The “A” signifies air-cooled and the “125” signifies an amperage of 125. You will also see the Weldcraft A-125 Flex Valve in the notation of Weldcraft A-125FV.

Feature set label key

There are a variety of torches within the different Weldcraft series. Use the table on the right to define the different feature set labels associated with each torch model.

Abbreviation	Feature Set Label Description
F	Flex
Micro M	Micro Medium
Micro L	Micro Long
Modular	Modular
P	Pencil
PSH	Positive Stop Handle
R	Redhead™
SC	Super Cool™
V	Valve

► Visit MillerWelds.com/tigtorches for complete details.

Air-Cooled Solutions

Achieve optimal control while welding diverse applications with Miller | Weldcraft air-cooled TIG torches. Reliable and cost effective, Miller | Weldcraft air-cooled TIG torches will meet your expectations — even on the heaviest welding jobs.

Air-cooled torches

Old Series Name	New Series Name	Product Model Variations	Part #	Electrode Range
WP-24	Weldcraft® A-80	A-80	WP-24	.020 – 3/32 in. (0.5 – 2.4 mm)
		A-80F	WP-24F	
		A-80FV	WP-2FV	
WP-9	Weldcraft® A-125	A-125	WP-9	.020 – 1/8 in. (0.5 – 3.2 mm)
		A-125F	WP-9F	
		A-125V	WP-9V	
		A-125FV	WP-9FV	
		A-125P	WP-9P	
		A-125F Redhead™	WP-R9F	
		A-125FV Redhead™	WP-R9FV	
WP-17	Weldcraft® A-150	A-150	WP-17	.020 – 1/8 in. (0.5 – 3.2 mm)
		A-150F	WP-17F	
		A-150V	WP-17V	
		A-150FV	WP-17FV	
		A-150F Redhead™	WP-R17F	
		A-150FV Redhead™	WP-R17FV	
		A-150PSH	WP-17PSH	
		A-150VPSH	WP-17VPSH	
WP-26	Weldcraft® A-200	A-200	WP-26	.020 – 5/32 in. (0.5 – 4 mm)
		A-200F	WP-26F	
		A-200V	WP-26V	
		A-200FV	WP-26FV	
		A-200F Redhead™	WP-R26F	
		A-200FV Redhead™	WP-R26FV	

- F** Flex
- V** Valve
- FV** Flex Valve
- L** Long
- M** Medium
- P** Pencil
- PSH** Positive Stop Handle
- SC** Super Cool™



A-150
(WP-17)

The Weldcraft A-150 torch is one of many versatile and innovative air-cooled torches designed for maximum operator comfort. A cost-effective alternative to water-cooled systems, the Miller | Weldcraft A-150 can be used in a variety of applications.



A-200V
(WP-26V)

The Weldcraft A-200 Valve combines dependability with top performance and is designed for heavy-duty welding applications. The gas valve advances its capabilities by providing better control and effortless adjustments for the flow of shielding gas.



A-125F
(WP-9F)

The Weldcraft A-125 Flex torch delivers optimal control for welding thin-gauge materials, especially in hard-to-reach places. The lightweight body helps reduce operator fatigue and downtime, and helps increase comfort across a diverse range of welding applications.

Recommended system solutions

Pairing various Miller | Weldcraft air-cooled torches with these select Miller machines is ideal for optimal welding performance.



Dynasty® 200



Maxstar® 150



Trailblazer® 325 EFI



PipeWorx™ 400

Water-Cooled Solutions

Miller | Weldcraft water-cooled TIG torches let operators weld with more power and comfort. With these reliable torches, you'll be able to manage your most demanding applications while minimizing overheating to get the job done. Water-cooled torches provide the option of adding a more efficient cooling system to your jobsite without increasing torch size, and can extend torch life with an around-the-head cooling design.

Water-cooled torches

Old Series Name	New Series Name	Product Model Variations	Part #	Electrode Range
WP-125	Weldcraft® W-125 MicroTig™	W-125M Micro	WP-125M	.040 – 3/32 in. (1.0 – 2.4 mm)
		W-125L Micro	WP-125L	
WP-24W	Weldcraft® W-180	W-180	WP-24W	.020 – 3/32 in. (0.5 – 2.4 mm)
WP-25	Weldcraft® W-200	W-200F	WP-25	.020 – 5/32 in. (0.5 – 4 mm)
WP-20P	Weldcraft® W-225 Pencil	W-225P	WP-20P	.020 – 5/32 in. (0.5 – 4 mm)
WP-20	Weldcraft® W-250	W-250	WP-20	.020 – 1/8 in. (0.5 – 3.2 mm)
		W-250V	WP-20V	
WP-280	Weldcraft® W-280 Super Cool™	W-280SC	WP-280	.020 – 1/8 in. (0.5 – 3.2 mm)
CS310	Weldcraft® W-310	W-310	CS310	.020 – 1/8 in. (0.5 – 3.2 mm)
WP-18	Weldcraft® W-350	W-350	WP-18	.020 – 5/32 in. (0.5 – 4 mm)
		W-350V	WP-18V	
WP-18SC	Weldcraft® W-400 Super Cool™	W-400SC	WP-18SC	.020 – 3/16 in. (0.5 – 4.8 mm)
CS410	Weldcraft® W-410	W-410	CS410	.020 – 5/32 in. (0.5 – 4 mm)
WP-12	Weldcraft® W-500	W-500	WP-12	1/16 – 1/4 in. (1.6 – 6.4 mm)

- F** Flex
- V** Valve
- FV** Flex Valve
- L** Long
- M** Medium
- P** Pencil
- PSH** Positive Stop Handle
- SC** Super Cool™



W-250
(WP-20)

The Weldcraft W-250 torch provides consistent performance and is designed for extended torch life. The efficient around-the-head cooling design minimizes downtime due to overheating, and is constructed for the operator's satisfaction.



W-280SC
(WP-280)

The Weldcraft W-280 Super Cool™ torch has a reliable water-cooled design engineered for high-amperage, demanding applications. The innovative Super Cool technology covers additional surface area on the torch to increase cooling efficiency and capacity.



W-310
(CS310)

The Weldcraft W-310 is a consistent and flexible torch designed for demanding applications with higher-amperage output. Its double lip back cap seal improves high frequency shielding and reduces gas leakage to help produce superior results.

Recommended system solutions

Pairing various Miller | Weldcraft water-cooled torches with these select Miller power source packages is ideal for optimal welding performance.



Dynasty® 200
Water-Cooled Package



Dynasty® 350
Water-Cooled Package

Specialty Torch Solutions

Handle your most difficult welding applications with Miller | Weldcraft specialty torches. These modular torches can be customized into multiple configurations for various welding applications and angles, helping reduce not only downtime from torch changeovers, but also the cost of maintaining a larger torch inventory.














Specialty torches

Old Series Name	New Series Name	Product Model Variations	Part #	Electrode Range
WP-150	Weldcraft® A-150 Modular	A-150 Modular	WP-150	.020 - 1/8 in. (0.5 - 3.2 mm)
		A-150V Modular	WP-150V	
WP-200	Weldcraft® A-200 Modular	A-200 Modular	WP-200	.020- 5/32 in. (0.5 - 4 mm)
		A-200V Modular	WP-200V	
WP-225	Weldcraft® W-225 Modular	W-225 Modular	WP-225	.020- 5/32 in. (0.5 - 4 mm)
WP-125	Weldcraft® W-125	W-125L	WP-125L	.040 - 3/32 in. (1.0 - 2.4 mm)
		W-125M	WP-125M	
WP-12	Weldcraft® W-500	W-500	WP-12	1/16 - 1/4 in. (1.6 - 6.4 mm)

- F** Flex
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Showcase of the Weldcraft® A-150 Modular torch's interchangeable heads

See Weldcraft Modular spec sheet for full details on specialty torches, consumables and applicable accessories.

You can order individual replacement parts separately...			...or in a complete consumable kit	
 105Z55R	 150 TB  150 VTB	 150 CE  150 SE	 9P  9-70  9-90  1726  1726P  24  24-90	 AK-150MFC

Automation torches

In addition to specialty torches, the Weldcraft product line includes a wide range of automation torches to provide outstanding durability on any mechanized application. To view the Weldcraft Automation Series, please visit MillerWelds.com/tigtorches.

Applications

Miller values a complete system solution approach to ensure that our customers receive the best products for their welding applications. Below are Miller weld engineers' recommended air-cooled and water-cooled torches for various general market applications.

Applications

Applications	Air-Cooled Torch Package (Part #)	Water-Cooled Torch Package (Part #)
Aerospace	A-80 (WP-24) A-125 (WP-9) A-150 (WP-17)	W-125 (WP-125) W-180 (WP-24W) W-200 (WP-25) W-250 (WP-20) W-280 (WP-280) W-310 (CS310A)
Automotive/ Motorsport	A-80 (WP-24) A-125 (WP-9) A-150 (WP-17)	W-225 (WP-225) W-280 (WP-280) W-310 (CS310A) W-350 (WP-18)
Fabrication	A-125 (WP-9) A-150 (WP-17) A-200 (WP-26)	W-250 (WP-20) W-280 (WP-280) W-310 (CS310A) W-350 (WP-18) W-400 (WP-18SC) W-410 (CS410A)
Manufacturing	A-125 (WP-9) A-150 (WP-17) A-200 (WP-26)	W-180 (WP-24W) W-250 (WP-20) W-280 (WP-280) W-310 (CS310A) W-350 (WP-18) W-410 (CS410A)
Maintenance & Repair	A-125 (WP-9) A-150 (WP-17) A-200 (WP-26)	W-125 (WP-125) W-180 (WP-24W) W-200 (WP-25) W-250 (WP-20) W-280 (WP-280) W-310 (CS310A) W-350 (WP-18) W-410 (CS410A)
Pipe & Tube Fabrication	A-125 (WP-9) A-150 (WP-17) A-200 (WP-26)	W-280 (WP-280) W-310 (CS310A) W-350 (WP-18) W-410 (CS410A)

Tungsten

The Miller | Weldcraft product line contains a broad spectrum of high-quality tungsten electrodes to serve all your TIG welding needs.



Tungsten electrodes

	Pure (EWP)	2% Ceriated (EWCe-2)	2% Lanthanated (EWLa-2)	Rare Earth (EWG)
Type	Forms a clean, balled end when heated and provides good arc stability for AC welding with a balanced or unbalanced square wave or sine wave.	Performs well in DC welding and arc starting at low-current settings, and offers excellent performance in AC processes.	Substitute for 2% Thoriated. Similar characteristics to 1.5% Lanthanated with better arc starting, arc stability and less tip erosion.	Combines the best of all alloying elements and provides excellent arc stability in AC or DC welding.
Diameter in. (mm) Part #		0.040 (1.0) WC040X7	0.040 (1.0) WL2040X7	
	1/16 (1.6) WP116X7	1/16 (1.6) WC116X7	1/16 (1.6) WL2116X7	1/16 (1.6) WG116X7
	3/32 (2.4) WP332X7	3/32 (2.4) WC332X7	3/32 (2.4) WL2332X7	3/32 (2.4) WG332X7
	1/8 (3.2) WP018X7	1/8 (3.2) WC018X7	1/8 (3.2) WL2018X7	1/8 (3.2) WG018X7
		5/32 (4.0) WC532X7	5/32 (4.0) WL2532X7	
Application	AC	DC AC inverters	DC AC inverters	DC AC inverters
Alloying Element	None	Cerium	Lanthanum	Cerium, Lanthanum, Yttrium, and others
Composition	99.5% Tungsten 0.5% Other	97.3% Tungsten 1.8–2.2% Cerium 0.5% Other	97.3% Tungsten 1.8–2.2% Lanthanum 0.5% Other	97.3% Tungsten Balance: Cerium, Lanthanum, Yttrium, and others
Materials Welded	Aluminum Magnesium	Carbon Steel Stainless Steel Nickel Alloy Titanium Aluminum	Carbon Steel Stainless Steel Nickel Alloy Titanium Aluminum	All

MillerWelds.com/tigtorches

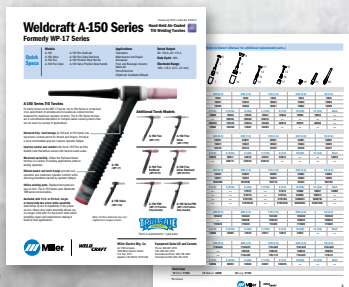
The Weldcraft product line is now branded Miller and is on MillerWelds.com, creating the opportunity to view all Miller TIG products in one location. You have access to the Miller welding equipment, along with all Weldcraft products and accessories, in a “one-stop shop” to guarantee that you find the perfect solution for your welding application.

► Visit MillerWelds.com/tigtorches for more information.



Spec sheets

Miller | Weldcraft spec sheets are available with specific torch information to help you with any questions you have about your favorite torch!



Technical support

Please call 866-931-9730 with any other questions you may have.



Miller®

The Power of Blue®