

SQUARE WAVE TIG 175

TIG WELDING MACHINE







Durability and Performance At an Exceptional Value.

Put your creativity to work with this affordable TIG and Stick welding machine. Our proven Square Wave™ technology provides the home hobbyist with a smooth and stable AC TIG welding on aluminum from a machine that also provides for great DC TIG welding on steel and stainless steel. The user-friendly interface enables the operator to set it, forget it and go.



Precision and Simplicity

Optimal TIG welding performance

Select from a current level as low as 10 amps up to 175 amps to cover a wide range of material thicknesses from thin gauge to 3/16 in. (4.8 mm), without compromising precision arc performance.

AC Auto Balance®

We've got you covered when welding aluminum. With AC Auto Balance, the machine automatically adjust for the optimal mix of cleaning and penetration. Simply select polarity, process, and desired amperage to begin welding.

Ready. set. weld.™

Comes with everything you need to set up and weld: air-cooled TIG torch, electrode holder for stick welding, Twist Mate™ torch adapter, wired foot pedal, gas regulator and hose, work clamp and input cable.

A great stick welder

Capable of performing AC/DC welding on cast iron, steel and stainless steel including Fleetweld® 5P+ (E6010) electrodes and hardfacing applications.



K1478-5 shown in image

PRODUCT SPECIFICATIONS

Product Name	Product Number	Input Power	Rated Output Current/Duty Cycle	Input Current @ Rated Output	Output Range	H x W x D in (mm)	Net Weight lb (kg)
Square Wave™ TIG 175	K1478-5	208/230/1/60	125A/40% 110A/60%	40% Duty Cycle: 51/47 60% Duty Cycle: 45/40	DC: 10-175A Max. OCV: 59V DC AC: 10-175A Max. OCV: 74V AC	19.5 x 13.7 x 25.0 (495 x 348 x 635)	185 (84)

ACCESSORIES

	Product Number	Base Unit (K1478-5)
17 Series 150 amp TIG Torch, 12.5 ft. (3.8 m) one-piece cable	—	●
3/32 in (2.4 mm) Collet Body	—	●
3/32 in (2.4 mm) Collet	—	●
3/32 in (2.4 mm) x 7 in (177 mm) 2% Ceriated Tungsten Electrode	—	●
Long Backcap	—	●
7/16 in (11.1 mm) diameter Alumina Gas Cup Nozzle	—	●
Twist Mate Torch Adapter	—	●
Foot Amptrol with 25 ft (4.6 m) cable	—	●
Gas Regulator & Hose	—	●
Stick Electrode Holder (200 amp) w/ 10 ft (3.1 m) cable and Twist Mate™ Connector	—	●
Work Clamp & 10 ft (3.0 m) Cable	—	●
6 ft (1.8 m) Input Cable w/ NEMA 6-50P Plug	—	●

● Included ● Optional

ADDITIONAL ACCESSORIES	Product Number	Base Unit (K1478-5)
GENERAL		
Undercarriage	K964-1	●
2-Year Extended Warranty - Square Wave TIG 175	X1478	●
TIG		
PTA-9F 125 amp TIG torch w/ Flex Head™ and 1 pc. 12.5 ft. (3.8 m) Ultra-Flex™ cable	K1781-9	●
Twist Mate Torch Adapter - PTA-9, -17	K1622-1	●
Hand Amptrol™ (Rotary Track Style) with 25 ft. (7.6 m) cable assembly	K963-3	●
Foot Amptrol™ w/ 25 ft. (7.6 m) cable assembly	K870	●
Arc Start Switch w/ 25 ft. (7.6 m) cable assembly	K814	●
Gas Lens Parts Kit for PTA-9 & PTW-20 Contains a long back cap, 0.040 in., 1/16 in. 3/32 in. collets, 0.040 in., 1/16 in. 3/32 in. gas lens collet bodies, 0.040 in., 1/16 in., 3/32 in. 2% Ceriated tungsten, and three Alumina nozzles (5/16 in., 3/8 in., 7/16 in. orifices)	KP2414-1	●
Parts Kits for PTA-9 torches Contains a long back cap, 0.040 in., 1/16 in. collets, 0.040 in., 1/16 in. collet bodies, 0.040 in., 1/16 in. 2% Ceriated tungsten, and three Alumina nozzles (1/4 in., 5/16 in., 3/8 in. orifices)	KP507	●
Parts Kits for PTA-17 torches Contains a short back cap, 0.040 in., 1/16 in., and 3/32 in. collets, 0.040 in., 1/16 in., and 3/32 in. collet bodies, 0.040 in., 1/16 in., and 3/32 in. 2% Ceriated tungsten, and three Alumina nozzles (1/4 in., 5/16 in., 3/8 in. orifices)	KP508	●
TIG Cut Length Consumables	See Publication C1.10	●
Magnum® Pro-Torch™ TIG Torches	Request Publication E12.150	●
PTA-17 150 amp TIG torch package w/ 1 pc. 12.5 ft. (3.8 m) Ultra-Flex cable.	K1782-12	
Zippered torch cable cover 12.5 ft (3.8 m)	K918-1	

● Included ● Optional

CUSTOMER ASSISTANCE POLICY

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