





The Best of Both Worlds: Utility and range of thickness

The Precision TIG® 275 is a versatile shop machine ideal for any type of TIG or Stick welding maintenance application, including the use of 5/32-in. (4.0 mm) stick electrode. The 275 features the patented Micro-Start™ II technology, which enhances starting and arc stability, and provides for more precise welds and crater fills.

When it's time for thicker materials and heavier jobs, choose the Precision TIG® 375, which provides for the highest duty cycle in its class. The Precision TIG 375 also features a built-in TIG pulser, that can be activated to help control heat input in the weld and reduce distortion and burn-through on thin materials.





Simplicity, Control and Range

Simplicity through technology

AC Auto Balance® automatically provides for the optimal mix of cleaning and penetration for welding on Aluminum. When welding thicker material requiring increased penetration, or when requiring increased cleaning action to break through heavy oxide layers, bypass AC Auto Balance and adjust manually for full control.

Advanced Pulse Control panel

Enable the TIG pulser to minimize material distortion from excessive heat input. The TIG pulser can also help moderate filler metal deposition for consistent bead appearance. (Optional on the Precision TIG 275, standard on the Precision TIG 375).

Wide output range

Tackle either end of the material thickness spectrum with an amperage range of 2 to 340 amps with the Precision TIG 275, and 2 to 420 amps with the Precision TIG 375.

Side-mounted torch holder and connections

Enables simple cable management and protection, and a place for your torch when not in use.

PRODUCT SPECIFICATIONS

Product Name	Product Number	Input Power	Rated Output Current/Duty Cycle (104°F, 40°C)	Input Current @ Rated Output	Output Range	H x W x D inches (mm)	Net Weight Ibs. (kg)
Precision TIG 275	K2619-1	208/230/460/1/60	275A/40% 225A/60%	104/94/47A 40% Duty Cycle 86/78/39 60% Duty Cycle	DC: 2-340A AC: 2-340A Max. OCV: 75V	31 x 22 x 26 (787 x 559 x 660)	397 (180)
	K2619-2	460/575/1/60		47/38A 40% Duty Cycle 39/31 60% Duty Cycle	IVIAX. OCV. 73V		
	K2620-1	220-230/380-400/ 415/1/50/60		95/55/50A 40% Duty Cycle 80/46/42 60% Duty Cycle			
Precision TIG 275 Ready-Pak Package	K2618-1	208/230/460/1/60		104/94/47A 40% Duty Cycle 86/78/39 60% Duty Cycle		49.7 x 28 x 41 (1262 x 711 x 1041)	641 (291)
Precision TIG 375	K2622-1		112/102/51A 40% Duty Cycle with PFC 102/92/46 60% Duty Cycle	DC: 2-420A AC: 2-420A Max. OCV: 80V	31 x 22 x 26 (787 x 559 x 660)	507 (230)	
	K2622-2	230/460/575/1/60		102/51/41A 40% Duty Cycle with PFC 92/46/37 60% Duty Cycle	IVIAX. OCV. GOV		
	K2623-1	220-230/380-400/ 415/1/50/60		119/69/63A 40% Duty Cycle with PFC 110/64/59 60% Duty Cycle			
Precision TIG 375 Ready-Pak Package	K2624-1	208/230/460/1/60		112/102/51A 40% Duty Cycle with PFC 102/92/46 60% Duty Cycle		49.7 x 28 x 41 (1262 x 711 x 1041)	751 (341)

WHAT'S INCLUDED	Product Number	Precision TIG 275 (208/230/460) (K2619-1)	Precision TIG 275 (460/575) (K2619-2)	Ready-Pak (shipped fully assembled) (K2618-1)	Precision TIG 375 (208/230/460) (K2622-1)	Precision TIG 375 (230/460/575) (K2622-2)	Ready-Pak (shipped fully assembled) (K2624-1)
Under-Cooler Cart Water Cooler	K1828-1			•			•
Foot Amptrol™ with 25 ft. (7.6 m) cable assembly.	K870			•			•
Harris® Gas Regulator/Flowmeter and 10 ft. (3.0 m) Hose Kit	3100211			•			•
PTW-20 250 amp water cooled TIG torch w/ 25 ft. (7.6 m) cable	K1784-4			•			•
Zippered Torch Cover with 25 ft. (7.6m) zippered torch cover	K918-2			•			•
Parts Kit for PTW-20 Series Torches contains a long back cap, 1/16 in., 3/32 in., 1/8 in. collets, 1/16 in., 3/32 in., 1/8 in. collets, 1/16 in., 3/32 in., 1/8 in. 2% Ceriated tungsten, and three Alumina nozzles (5/16 in., 3/8 in., 7/16 in. orifices)	KP510			•			•
Water Hose (2 included)	S19558-4			•			•
15 ft. (4.5 m), 2/0 Work Cable and Clamp	K2150-1			•			•
Adapter for optional PTA-9 or -17 Torch (3/8 in.)	S20403-4			•			

OPTIONAL ACCESSORIES	Product Number	Precision TIG 275 (208/230/460) (K2619-1)	Precision TIG 275 (460/575) (K2619-2)	Precision TIG 275 Ready-Pak (shipped fully assembled) (K2618-1)	Precision TIG 375 (208/230/460) (K2622-1)	Precision TIG 375 (230/460/575) (K2622-2)	Precision TIG 375 Ready-Pak (shipped fully assembled) (K2624-1)
GENERAL	,						
Advanced Control Panel	K2621-1	•	•	•			
Undercarriage	K1869-1	•	•		•	•	
STICK				,			
Accessory Kit - 150 Amp: includes 20 ft. (6.1 m) of #6 electrode cable with lug, 15 ft. (4.6 m) #6 work cable with lugs, headshield, filler plate, work clamp, electrode holder and sample pack of mild steel electrode	K875	•	•	•			
Accessory Kit - 400 Amp: includes 35 ft. (10.7 m) of 2/0 electrode cable with lug, 30 ft. (9.1 m) 2/0 work cable with lugs, headshield, filler plate, work clamp and electrode holder		•	•	•	•	•	•
Remote Output Control - 25 ft (7.6 m)	K857	•	•	•	•	•	•
Remote Output Control - 100 ft (30.5 m)	K857-1	•	•	•	•	•	•
TIG		*					
Hand Amptrol™ (Rotary Track Style) w/ 25 ft. (7.6 m) cable assembly	K963-3	•	•	•	•	•	•
Foot Amptrol with 25 ft. (7.6 m) cable assembly	K870	•	•		•	•	
Wireless Pedal	K3127-1	•	•	•	•	•	•
Arc Start Switch with 25 ft. (7.6 m) cable assembly	K814	•	•	•	•	•	•
PTA-9 -17 One Cable Torch Adapter: adapts the 3/8 in. PTA-9 or -17 fitting to the 5/8 in. gas and power connection on machine	K2166-3	•	•	•	•	•	•
PTA-9 -17 -26 Two Cable Torch Adapter: Converts the 7/8 in. water and power connection on the machine to a 1/2 in. output stud for use with a two-cable air cooled TIG torch.	K2166-2	•	•	•	•	•	•
PTA-26 One Cable Torch Adapter: adapts the 7/8 in. PTA-26 fitting to the 5/8 in. gas and power connection on machine.	K2166-1	•	•	•	•	•	•
Harris® Gas Regulator/Flowmeter and 10 ft. (3.0 m) Hose Kit	3100211	•	•		•	•	
Under-Cooler Cart water cooler	K1828-1	•	•		•	•	
25 ft. (7.6 m) zippered cable cover	K918-2	•	•	•	•	•	•
12.5 ft. (3.8 m) zippered cable cover	K918-1	•	•	•	•	•	•
Cut Length Consumables	See C1.10	•	•	•	•	•	•
PTW-18 350 amp water cooled TIG torch w/ 3 pc. 25 ft. (7.6 m) cable	K1784-2	•	•	•	•	•	•
PTW-20 250 amp water cooled TIG torch w/ 3 pc. 12.5 ft. (3.8 m) cable	K1784-3	•	•	•	•	•	•
PTW-18 350 Amp Water Cooled TIG torch w/ 3 pc. 12.5 ft. (3.8 m) cable	K1784-1	•	•	•	•	•	•
PTW-20 250 amp water cooled TIG torch w/ 3 pc. 25 ft. (7.6 m) cable	K1784-4	•	•	•	•	•	•
PTA-17 150 amp TIG torch w/ 2 pc. 25 ft. (7.6 m) cable	K1782-4	•	•	•	•	•	•
PTA-17 150 amp TIG torch w/ 1 pc. 25 ft. (7.6 m) cable		•	•	•	•	•	•
PTA-26 200 Amp air cooled TIG torch w/ 2 pc 25 ft. (7.6 m) cable	K1783-4	•	•	•	•	•	•
PTA-26 200 Amp air cooled TIG torch w/ 1 pc 25 ft. (7.6 m) cable	K1783-3	•	•	•	•	•	•
Parts Kit 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	•	•	•	•	•	•
Parts Kit for PTW-20 Series torches: contains a long back cap, 1/16 in., 3/32 in., 1/8 in. collets, 1/16 in., 3/32 in., 1/8 in. collet bodies, 1/16 in., 3/32 in., 1/8 in. 2% Ceriated tungsten, and three Alumina nozzles (5/16 in., 3/8 in., 7/16 in. orifices)	KP510	•	•	•	•	•	•
Parts Kit for PTW-18 & PTA-26 series TIG torches: contains a short back cap, 1/16 in., 3/32 in., 1/8 in. collets, 1/16 in., 3/32 in., 1/8 in. collet bodies, 1/16 in., 3/32 in., 1/8 in. 2% Ceriated tungsten, and three Alumina nozzles (5/16 in., 3/8 in., 1/2 in. orifices)	KP509	•	•	•	•	•	•
2-Year Extended Warranty - Precision TIG 275 (for K2619-x)	X2619	•	•	•			
2-Year Extended Warranty - Precision TIG 375 (for K2622-x)	X2622				•	•	•
Weld Fume Control System	See Fume Control Section	•	•	•	•	•	•
	•	•	1	•	•	 Included 	Optional

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