



TIG GTAW

Maxstar® 400 and Dynasty® 400 and 800 DC (Maxstar) and AC/DC (Dynasty) TIG and Stick

See literature DC/24.5 (Maxstar) and AD/5.5 (Dynasty)



TIG Welding Capability

800 Max. 25.4 mm (1 in.)	800 Max. 25.4 mm (1 in.)
400 Max. 15.9 mm (5/8 in.)	400 Max. 15.9 mm (5/8 in.)
Steel	Aluminum (Dynasty only)
400 Min. 0.3 mm (0.012 in.)	400 Min. 0.4 mm (0.015 in.)
800 Min. 0.5 mm (0.020 in.)	800 Min. 0.5 mm (0.020 in.)



Allows for any input voltage hookup (208-575 V) with no manual linking, providing convenience in any job setting. Ideal solution for dirty or unreliable power.

Blue Lightning™ high-frequency (HF) arc starter for non-contact arc initiation. Provides more consistent arc starts and greater reliability compared to traditional HF arc starters.

Lift-Arc™ provides AC (Dynasty only) or DC arc initiation without the use of high frequency.

Hot Start™ adaptive control provides positive arc starts without sticking.

Auto-postflow adjusts the length of postflow time based on the amperage setting, shielding your tungsten and eliminating the need to set the postflow time.

QUIETPULSE™ QuietPulse is activated by changing the waveshape for DC pulse welding to create a slower, more fluid transition between the background and peak amperage, resulting in lower audible noise.

Maxstar machines manufactured after serial number ND040985L include QuietPulse. Those manufactured before can be updated with QuietPulse™ Expansion Memory Card (301790).

Cooler power supply (CPS) is an integrated 120-volt dedicated-use receptacle for the Coolmate™ 3.5.

Program memory features nine independent program memories that maintain/save your parameters.

High-speed DC TIG pulse controls capable of 5,000 pulses per second.

Dynasty welders add AC TIG capabilities and the following AC features

Waveforms for advanced squarewave, soft squarewave, sine wave and triangular wave.

Balance control provides adjustable oxide removal which is essential for creating the highest quality aluminum welds.

Frequency controls the width of the arc cone and can improve directional control of the arc.

AC amplitude/amperage allows EP and EN amperages to be set independently to precisely control heat input to the work and electrode.

Heavy industrial

CC AC 3 1 Maxstar is DC only
DC Phase Phase

Processes

- TIG (GTAW) ▪ Stick (SMAW)
- Pulsed TIG (GTAW-P)
- Air carbon arc (CAC-A)

400 models come with

- 2.4 m (8 ft.) power cord (no plug)
- Setup video and reference guide

Note: Power cord is NOT included with 800 models.

Most popular accessories

- Runner™ Cart 300244
- Coolmate™ 3.5 300245
- Coolant 043810
- Remote Controls
043688 RCCS-14 fingertip control
194744 RFCS-14 HD foot control
300429 Wireless Foot Control
- Dinse-style connector, Male 50 mm 134460

*Sense voltage for low OCV stick and Lift-Arc™ TIG.

**See literature DC/24.5 and AD/5.5 for Complete package dimensions and weight.

	Model/Stock Number	Welding Process	Input Power	Welding Amp Range	Rated Output at 60% Duty Cycle	Amps Input at 208 V	Input at 230 V	Rated Load Output, 50/60 Hz	Max. Open-Circuit Voltage	Power Source Dimensions**	Power Source Net Weight**
DC Maxstar	Maxstar 400 907716, CSA 907716001 TIGRunner, CSA 907716002, CE	TIG/stick	3-phase	3-400	300 A at 32 V	33	30	17 15 12 12.0 11.6	75 VDC (10-15 VDC*)	H: 629 mm (24.75 in.) W: 349 mm (13.75 in.) D: 559 mm (22 in.)	61 kg (134 lb.)
			1-phase	3-400	250 A at 30 V	48	43	24 20 16 10 9.2			
AC/DC Dynasty	Dynasty 400 907717, CSA 907717001 TIGRunner, CSA 907717002, CE	TIG/stick	3-phase	3-400	300 A at 32 V	36	33	19 16 13 13.1 12.5	75 VDC (10-15 VDC*)	H: 629 mm (24.75 in.) W: 349 mm (13.75 in.) D: 559 mm (22 in.)	61 kg (134 lb.)
			1-phase	3-400	250 A at 29 V	52	47	26 22 17 10.9 9.9			
	Dynasty 800 907719, CSA 907719001 TIGRunner, CSA 907719002, CE	TIG/stick	3-phase	5-800	600 A at 44 V	96	86	48 42 33 35 33	75 VDC (10-15 VDC*)	H: 876 mm (34.5 in.) W: 349 mm (13.75 in.) D: 559 mm (22 in.)	90 kg (198 lb.)
			1-phase	5-800	500 A at 40 V	136	122	66 56 44 28 26			