

Maxstar[®] 400 and 800

TIG/Stick Welding
Power Source



Quick Specs



Industrial Applications

Precision metal fabrication
Tube mills
Pipe and tube fabrication
Tool and die
Exotic material fabrication
Pressure vessel fabrication

Processes

TIG (GTAW)
Pulsed TIG (GTAW-P)
Stick (SMAW)
Air carbon arc (CAC-A)
400: 6 mm maximum
800: 10 mm maximum

Input Power

380–575 V, 3-phase power

Amperage Range

400: 3–400 A

800: 5–800 A

Rated Output

400: 300 A at 32 V, 60% duty cycle

800: 600 A at 44 V, 60% duty cycle

Net Weight

400: 61 kg (134 lb.)

800: 90 kg (198 lb.)



Allows for any input voltage hookup (380–575 V) with no manual linking, providing convenience in any job setting. Ideal solution for dirty or unreliable power.

Meter calibration allows digital meters to be calibrated for certification.

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

Cooler-On-Demand™ feature operates the auxiliary cooling system only when needed, reducing noise, energy use, and airborne contaminants pulled through the cooler.

Wind Tunnel Technology™ protects internal electrical components from airborne contaminants, extending the product life.

Fan-On-Demand™ power source cooling system operates only when needed, reducing noise, energy use and the amount of contaminants pulled through the machine.



Maxstar 800

Maxstar 400

Lift-Arc™ provides DC arc initiation without the use of high frequency.

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.

DC TIG Features

Exceptionally smooth and precise arc for welding exotic materials.

Pulse. Pulsing can increase puddle agitation, arc stability and travel speeds while reducing heat input and distortion. These models provide extended ranges.

DC Stick Features

DIG control allows the arc characteristics to be changed for specific applications and electrodes. Lower the DIG setting for smooth running electrodes like E7018 and increase the DIG setting for stiffer, more penetrating electrodes like E6010.

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



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Power source is warranted for three years, parts and labour.

Specifications (Subject to change without notice.)

CC DC 3 Phase

Model	Welding Amperage Range	IP Rating	Rated Output	Amps Input at Rated Load Output, 50/60 Hz							Max. Open-Circuit Voltage	Dimensions	Net Weight
				380 V	400 V	460 V	575 V	KVA	KW				
Maxstar 400	3–400 A	IP23	250 A at 30 V, 100% duty cycle	14	13	12	9	9.4	9.1	75 VDC (10–15 VDC*)			H: 629 mm (24.75 in.) W: 349 mm (13.75 in.) D: 559 mm (22 in.)
			300 A at 32 V, 60% duty cycle	18	17	15	12	12	11.6				
			400 A at 36 V, 20% duty cycle	27	25	22	17	18.1	17.3				
Maxstar 800	5–800 A	IP23	500 A at 40 V, 100% duty cycle	36	34	30	24	24.4	23.3	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.)	
			600 A at 44 V, 60% duty cycle	48	45	39	31	32.4	31.1				
			800 A at 44 V, 20% duty cycle	65	61	53	42	41.8	40.1				

 Certified by Canadian Standards Association to both the Canadian and U.S. Standards.  All CE models conform to the applicable parts of the IEC 60974 series of standards.

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

Ordering Information

Equipment and Options	Stock No.	Description	Qty.	Price
Maxstar® 400	907716002	Auto-Line™ 380–575 V, 50/60 Hz, CE . 2.4 m (8 ft.) power cord		
Maxstar® 800	907718002	Auto-Line™ 380–575 V, 50/60 Hz, CE		
TIG Connectors				
Water-Cooled TIG Torch Connectors	195377 225028	Connects Weldcraft™ water-cooled torches to Dinse-style connector Connects Weldcraft™ water-cooled torches to Maxstar 800 (thread-lock connector included with 800 models)		
Remote Controls				
Wireless Remote Foot Control	300429	Foot control with wireless 27.4 m (90 ft.) operating range		
Wireless Remote Hand Control	300430	Hand control with wireless 91.4 m (300 ft.) operating range		
RCCS-14	043688	North/south fingertip control		
RCC-14	151086	East/west fingertip control		
RFCS-14 HD	194744	Heavy-duty foot control		
RHC-14	242211020	Hand control		
RMLS-14	129337	Momentary/maintained rocker switch		
RMS-14	187208	Momentary rubber dome switch		
Accessories				
Universal Trolley	018035028			
Handle Kit	058066130	For XMS/Dynasty/Maxstar with the universal trolley (018035028)		
Coolmate™ 3.5	300245	120 V, 50/60 Hz, CE . Requires coolant		
Industrial Coolant	043810	3.78-liter plastic bottle (<i>must be ordered in quantities of 4</i>)		
Automation Interface Kit	278161	Field installation required. Provides 28-pin automation connections		
Weld Current Sensor	300179	Field installation required. Detects when work clamp is not connected		
Thread-Lock Connectors (2 male)	225029	Used to connect weld cable to Dynasty 800 or Maxstar 800		
Dinse-Style Connector 50 mm (1 male, 1 female)	042419	Used to extend weld cables		
Memory Card Expansion	301151 301152 301328 301416	14-pin automation expansion 14-pin Modbus® expansion Hot wire power supply expansion Hot Start™ adjust expansion		
Memory Card (Blank)	301080			

Date: Total Quoted Price:

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