# Maxstar<sup>®</sup> 200 Series

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Quick Specs

## **Heavy Industrial Applications**

Petro/Chem Fabrication Aerospace Food/Beverage Industry Mechanical Contractors Shipboard Installation/Repair Dairy Industry Processes

TIG (GTAW) Pulsed TIG (GTAW-P) with DX and LX Models Stick (SMAW) Input Power Requires 1- or 3-Phase Power Amperage Range 1–200 A Max. Open-Circuit Voltage 80 Weight 37 lb (16.8 kg)

# The Power of Blue<sup>®</sup>.

Auto-Line<sup>™</sup> provides state-of-theart flexibility to the end user. The Auto-Line circuitry automatically connects to 120–460 VAC, singleor three-phase power without removing the covers to relink the power source. No longer is there a concern if you have the correct machine for shop or the job site.

Inverter-based, DC power source has **state-of-the-art operator interface** allowing the user extra set-up capabilities in a compact machine. Features more precise control of output parameters than traditional knobs and switches.

## Programmable HF start parameters

allows the independently set HF starting conditions based upon process or application.

**NEW!** Low OCV Stick is a simple design that reduces the open-circuit voltage to 13 volts when the welding power source is not in use. This built-in circuit design eliminates the need for add-on voltage reducers.

**HF arc starting** provides non-contact arc starting that eliminates tungsten or material contamination.

Lift-Arc<sup>™</sup> start provides TIG arc starting without the use of high frequency.



Maxstar 200 DX

Maxstar 200 LX

Maxstar 200 SD

## Available in Three Models:

- SD Provides the basic features that are required for most TIG or Stick welding applications.
- **DX** When the job demands greater control the DX provides pulse on/off, pulse frequency, peak % time, background amperage, initial amperage, initial slope time, final slope time and final amperage control.
- **LX** Automation made simple. With the **Automation Interface Connector**, the integrator can quickly interface to the output disable, weld start/stop, gas start/stop inputs; valid arc, pulse lock out, and end of weld sequence outputs.

**Superior TIG/Stick arc performance** on all input voltages. Even on the difficult to run electrodes like E6010.

**Portable** in the shop or at the job site — at 37 lb the Maxstar 200 is easily moved from location to location.



Power source is warranted for 3 years, parts and labor. Original main power rectified parts are warranted for 5 years.





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# **Specifications** (Subject to change without notice.)



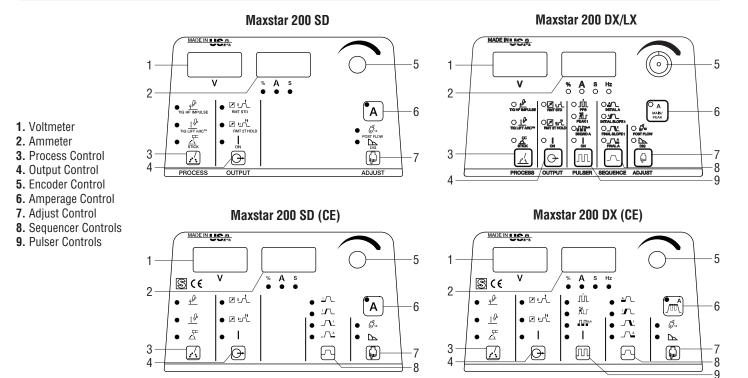
Welding Mode	Input Power	Rated Output	Welding Amperage Range	Max. Open- Circuit Voltage		•		d Load 400 V	Output, 440 V	, 50/60 460 V		KW	Dimensions	Net Weight
TIG (GTAW)	3-Phase	175 A at 17 V, 60% Duty Cycle	115 VAC, 1–140 A	75 VDC 9-14 VDC**		12.1 0.16*	10.5 0.16*	6.0 0.24*	5.3 0.24*	5.2 0.25*	4.2 0.06*	4.0 0.03*	H: 13-1/2 in (343 mm) W: 7-1/2 in (191 mm) D: 17-1/2 in (445 mm)	37 lb (16.8 kg)
	1-Phase	175 A at 17 V, 60% Duty Cycle	200-460 VAC, 1-200 A			19.9 0.25*	17.4 0.23*	_	_	_	4.0 0.05*	4.0 0.02*		
		150 A at 16 V, 70% Duty Cycle			29.7 0.42*	_	_	_	_	_	3.4 0.05*	3.4 0.03*		
		125 A at 15 V, 100% Duty Cycle			23.0 0.42*	_	_	_	_	_	2.6 0.05*	2.6 0.03*		
Stick (SMAW)	3-Phase	150 A at 26 V, 60% Duty Cycle	115 VAC, 1-90 A	75 VDC		14.7 0.16*	13.1 0.16*	7.4 0.24*	6.6 0.24*	6.4 0.25*	5.2 0.06*	5.0 0.03*		
	1-Phase	150 A at 26 V, 60% Duty Cycle	200-460 VAC, 1-200 A		_	24.9 0.25*	21.7 0.23*	_	_	_	5.0 0.05*	5.0 0.02*		
		125 A at 25 V, 50% Duty Cycle			34.1 0.42*	_	_	_	_	_	4.0 0.05*	3.8 0.03*		
		90 A at 24 V, 100% Duty Cycle			25.0 0.42*	_	_	_	_	_	4.0 0.05*	3.8 0.03*		

\* Indicates idle draw. \*\* Sense voltage for Stick and Lift-Arc TIG.



CE Models with CE specifications are available and manufactured according to the Standards IEC-974-1 and EN-60974-1.

# **Control Panel**



## **Control Panel Parameter Values**

- A. Preflow (s)
- B. Initial Time (s)
- **C.** Initial Amperage (A)
- D. Initial Slope Time (s) 1 - 200
- E. Weld Amperage (A)
- 0.0-25 0.0-25 (LX only) 1 - 2000.0 - 25
- F. Pulse Frequency (Hz)
  - G. Background Amperage (%)
  - H. Peak Percent Time (%)
  - I. Final Slope Time (s)
  - J. Final Amperage (A)
- 0.1-500 0-100 5-95 0.0 - 251 - 200

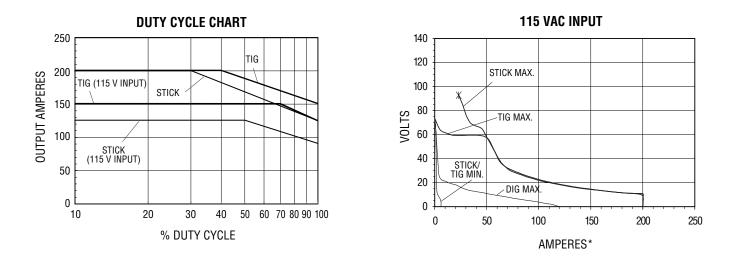
**K.** Final Time (s) L. Postflow Time (s) **M.** Dig (%)

0.0-25 (LX only) 0 - 0.50

- 0 100



# **Performance Data**



**OTHER INPUT VOLTAGES** 140 120 STICK MAX. 100 TIG MAX. VOLTS 80 60 40 STICK/ TIG MIN DIG MAX. 20 0 0 50 100 150 200 250 AMPERES\*

\*Amperage setting must be reduced to obtain currents less than highlighted data point.

# **Included Accessories**

## Non-CE SD/DX Models Include:

- (2) International-style connectors 35/50
- (1) DA-917F torch adapter to international-style connector (#194 720)

## Non-CE LX Model Includes:

- (2) International-style connectors 35/50
- (1) 14-pin amphenol with clamp
- (1) 10-pin amphenol with clamp
- (1) 5/8 in 18 gas fitting

#### **CE SD/DX Models Include:**

- (2) International-style connectors 35/50
- (1) 14-pin amphenol with clamp
- (1) 5/8 in 18 gas fitting
- (1) 3/8 in BSPP gas fitting



# **Ordering Information**

Power Source and Options	Stock No.	Description	Qty.	Price
Maxstar® 200 SD	#903 701	Basic controls for TIG/Stick, 120-460 VAC		
	#903 768	Basic controls for TIG/Stick, 120-460 VAC with CE		
Maxstar <sup>®</sup> 200 DX	#903 701-01-1	Full-feature controls for TIG/Stick, 120-460 VAC		
	#903 768-01-1	Full-feature controls for TIG/Stick, 120-460 VAC with CE		
Maxstar® 200 LX	#903 701-01-2	Full-feature controls with the required automation connections, 120-460 VAC		
TIG Accessories				
TIG Torch Adapters	#194 720 #190 219 #194 724	DA-917F DA-1820L DA-26R		
Contractor Kits	#195 055 #195 054	150 A TIG/Stick with RCCS-14 fingertip control 150 A TIG/Stick with RFCS-14 HD foot control		
Diamondback <sup>™</sup> TIG Torches		See Diamondback TIG Torch Selector Guide		
Consumables/Tungsten		See Parts Guide		
Gas Cylinder/Hose and Fittings				
Remote Controls				
RFCS-14 HD	#194 744	Heavy-duty foot control		
RCCS-14	#043 688	North/south fingertip control		
RCC-14	#151 086	Side-to-side fingertip control		
RMLS-14	#129 337	Momentary/maintained rocker control		
RMS-14	#187 208	Momentary rubber dome switch		
Extension Cords				
Coolant Systems				
Coolmate™ 3	#043 007 #043 007-01-2 #043 008 #043 008-01-2	115 VAC 115 VAC with <b>CE</b> 230 VAC 230 VAC with <b>CE</b>		
Coolmate™ V3	#043 009 #043 009-01-2	115 VAC 115 VAC, 50/60 Hz with <b>CE</b>		
Coolmate™ 4	#042 288 #042 288-01-5	115 VAC 115 VAC with <b>CE</b>		
Low-Conductivity Coolant	#043 810			
International-Style Connectors				
International-Style Connector Kit	#042 418	Dinse, (1) male plug - 50 mm		
Extension Kit for International-Style	#042 419	Dinse, (1) plug and (1) receptacle - 50 mm		
International/Tweco® Adapter	#042 465	A one-piece adapter with International-style male plug		
International/Cam-Lok Adapter	#042 466	A one-piece adapter with International-style male plug		

Date:

**Total Quoted Price:** 



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