

# Maxstar<sup>®</sup> 200 STR

Issued Sept. 2009 • Index No. DC/29.5

Stick/TIG Welding  
Power Source



## Quick Specs



### Industrial Applications

Petro/Chem Fabrication  
Mechanical Contractors  
Shipboard Installation  
Mining  
Process Piping  
MRO

### Processes

Stick (SMAW)  
TIG (GTAW) Lift-Arc

**Input Power** 115–460 V, 3- or 1-Phase Power

**Amperage Range** 5–200 A

**Rated Output** 200 A, 28 V @ 20% Duty Cycle

**Weight** 32 lb (14.5 kg)

## The Power of Blue.<sup>®</sup>

**Portable** in the shop or at the job site — at 32 lb the Maxstar 200 STR easily moves from location to location.

Inverter-based, DC power source has a **simple-to-use operator interface** providing only the necessary controls in a compact machine.

**Easy installation — Auto-Line<sup>™</sup>** allows for any input voltage hookup (115–460 V) with no manual linking, providing convenience in any job setting. Ideal solution for dirty or unreliable power.

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

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



**Adaptive Hot Start<sup>™</sup> for Stick arc starts** automatically increases the output amperage at the start of a weld should the start require it. Prevents the electrode from sticking and creating an inclusion.

**Stick Stuck** feature helps to prevent the electrode from sticking to the part in the Stick welding mode. The benefit of Stick Stuck is that it makes Stick welding easier and reduces electrode waste. Available on select models (see ordering information).

**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.

**Remote amperage control** provided through 14-pin receptacle on front of the machine. This permits use of standard remote amperage control devices.

**Optional 4-pack racks** are available for multiple operator applications. These are commonly used in construction and shipyard applications.

**TRUE BLUE<sup>®</sup>**  
3YR. WARRANTY

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

MADE IN **USA**  
APPLETON, WI **USA**



Distribuito da:

**TECNOWELD**  
di ROBERTO GAMBERINI  
MATERIALI E MACCHINE PER SALDATURA

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# Specifications (Subject to change without notice.)



Welding Mode	Welding Amperage Range	Max. Open-Circuit Voltage	Input Power	Rated Output	Amps Input at Rated Load Output, 50/60 Hz,							Dimensions	Net Weight	
					115 V	200 V	230 V	400 V	440 V	460 V	KVA			KW
TIG (GTAW)	DC 1-140 A (120 VAC)	80 VDC 9-14 VDC**	3-Phase	175 A at 17 V, 60% Duty Cycle	—	12.1	10.5	6.0	5.3	5.2	4.2	4.0	H: 13-1/2 in (343 mm) W: 7-1/2 in (191 mm) D: 17-1/2 in (445 mm)	32 lb (14.5 kg)
			1-Phase	175 A at 17 V, 60% Duty Cycle	—	19.9	17.4	—	—	—	4.0	4.0		
			150 A at 16 V, 70% Duty Cycle	29.7	—	—	—	—	—	3.4	3.4			
			125 A at 15 V, 100% Duty Cycle	23.0	—	—	—	—	—	2.6	2.6			
Stick (SMAW)	DC 1-90 A (120 VAC)	80 VDC	3-Phase	150 A at 26 V, 60% Duty Cycle	—	14.7	13.1	7.4	6.6	6.4	5.2	5.0		
			1-Phase	150 A at 26 V, 60% Duty Cycle	—	24.9	21.7	—	—	—	5.0	5.0		
			125 A at 25 V, 50% Duty Cycle	34.1	—	—	—	—	—	4.0	3.8			
			90 A at 24 V, 100% Duty Cycle	25.0	—	—	—	—	—	4.0	3.8			

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

CSA approval. All CE models conform to the applicable parts of the IEC 60974 series of standards.

## Performance Data

### DUTY CYCLE

#### 110-120 V INPUT VOLTAGE

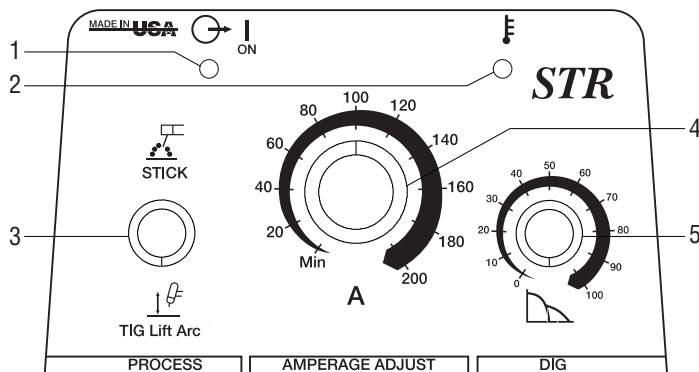
%	TIG	STICK
10-40%	150 A	125 A
70%	150 A	110 A
100%	125 A	90 A

#### 200-460 V INPUT VOLTAGE

%	TIG	STICK
10-30%	200 A	200 A
40%	200 A	175 A
60%	175 A	150 A
100%	150 A	125 A

## Control Panel

### Maxstar 200 STR



1. Output Light
2. Overtemp Light
3. Weld Process Selector Switch
4. Amperage Adjustment Control
5. Dig Adjustment Control

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## Genuine Miller Accessories

**WELD**  
CRAFT  
The TIG Welder's Choice



### Weldcraft® TIG Torches

The Weldcraft line of TIG torches complements the most popular TIG power source line available today. The Weldcraft torch line includes both air-cooled and water-cooled models. Available with genuine Weldcraft parts.

**#WP-17V-12-2** 150 A, 12 ft (3.7 m) air-cooled torch with valve, two-piece cable.

**#WP-17V-25-2** 150 A, 25 ft (7.6 m) torch with valve, two-piece cable.

**#WP-26V-12-2** 200 A, 12 ft (3.7 m) air-cooled torch with valve

**#WP-26V-25-2** 200 A, 25 ft (7.6 m) air-cooled torch with valve

*TIG torches require the installation of a Dinse Connector (042418).*



### Universal Carrying Cart and Cylinder Rack #042 934

Holds power source, and gas cylinder up to 56 in (142.2 cm) high measuring 6 to 9 in (15.2 to 22.8 cm) in diameter.

### Remote Controls



### RCC-14 Remote Contactor and Current Control #151 086

14-pin plug  
Side-to-side rotary-motion fingertip control fastens to TIG torch using two Velcro® straps. Includes 28 ft (8.5 m) control cord. Great for production or contractors that need quick ramp-up.



### RCCS-14 Remote Contactor and Current Control #043 688

Up-and-down rotary-motion fingertip control fastens to TIG torch using two Velcro® straps. Includes 28 ft (8.5 m) control cord. Great for applications that require a finer amperage control.



### RFCS-14 HD Foot Control #194 744

New design with larger, more stable base and heavier cord that can exit front, back or sides of pedal. Provides remote current and contactor control and includes 20 ft (6 m) cord and 14-pin plug.



### RHC-14 Hand Control #129 340

Miniature hand control for remote current and contactor control. Dimensions: 4 x 4 x 3-1/4 in (102 x 102 x 82 mm). Includes 20 ft (6 m) cord and 14-pin plug.

## International-Style Connectors (Will accept Dinse™ or other international connectors.)

*Note: All Maxstar power sources are equipped with International-style connectors for secondary connections. (Power source is shipped with two 50-mm male International-style plugs for use with #1 or #2 AWG size cable.)*

### International-Style Connector Kit

**#042 418** 50 mm

Accepts #1 or #2 AWG cable size. Required if male plugs shipped with power source must be replaced or if additional plugs are needed. Kit includes one International-style male plug which attaches to the work and/or weld cables and plugs into the International-style receptacles on the power source.

### Extension Kit for International-Style Cable Connectors #042 419

50 mm  
Accepts #1 or #2 AWG size cable. Used to adapt or extend weld and/or work cables. Kit includes one male International-style plug and one in-line female International-style receptacle.



### International/Tweco® Adapter #042 465

A one-piece adapter which has an International-style male plug (to power source) on one end and a female Tweco receptacle (for weld cable connection) on other end.



### International/Cam-Lok Adapter #042 466

A one-piece adapter which has an International-style male plug (to power source) on one end and a Cam-Lok receptacle (for weld cable connection) on other end.

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## Multi-Operator Rack



### 4-Pack Rack (empty) #195 051

Appropriate fuses required.

- Rugged enclosure provides a simple means for protecting and transporting multiple welding power sources for construction, power plant turn-arounds, and shipbuilding applications.
- Light-weight and small footprint for easy transportation. Low weight enables the use of elevators to move the rack.
- Top cover protects machines from falling debris.
- Lifting eye simplifies transportation using crane or overhead lifting device.
- Lift truck side and end fork pockets.
- One main disconnect box with fused circuit breaker switches for each machine.
- Common output ground connection (for same polarity use only).



### 4-Pack Rack Running Gear #195 114

Large 5-inch diameter wheels enable the rack to be moved over grating and driveway gravel.

Power Source	Rack Capacity	Input Power to Rack	Generator kW (Required)	Rack Fuse Size (3 per Power Source Required)*	Dimensions	Net Weight
Maxstar 200	4	230 V at 74 A	20 kW	30 A (#199 795)	H: 59-3/8 in (1508 mm) W: 43 in (1092 mm) D: 34-3/8 in (873 mm)	<b>Rack only</b> 239 lb (108 kg) <b>with Power Sources</b> 367 lb (166 kg)
		460 V at 36 A	20 kW	15 A (#220 514)		

\*Rack comes with 25 A fuses. Order appropriate fuses for primary voltage.

## Ordering Information

Power Source and Options	Stock No.	Description	Qty.	Price
<b>Maxstar® 200 STR</b>	<b>#907 036-00-1</b> <b>#907 036</b> <b>#907 355</b>	120–460 VAC, 50/60 Hz, Normal OCV 120–460 VAC, 50/60 Hz, Low OCV, with Stick Stuck 120–460 VAC, 50/60 Hz, <b>CE</b> , Normal OCV, with Stick Stuck		
<b>Accessories</b>				
4-Pack Rack (empty)	<b>#195 051</b>	Order power source and fuses separately		
4-Pack Rack Running Gear	<b>#195 114</b>	(4) 5-in diameter wheels and brackets		
Fuses	<b>#199 795</b> <b>#220 514</b>	230 V, 30 A Individual fuse. 12 required for 4 Pack 460 V, 15 A Individual fuse. 12 required for 4 Pack		
Weldcraft® TIG Torches		See page 3		
Gas Cylinder/Hose and Fittings				
<b>Remote Controls</b>				
RCC-14	<b>#151 086</b>	Remote current side-to-side rotary control		
RCCS-14	<b>#043 688</b>	Remote current up and down rotary control		
RFCS-14 HD	<b>#194 744</b>	Remote current foot pedal control		
RHC-14	<b>#129 340</b>	Remote current hand control		
<b>International-Style Connectors</b>				
Dinse Connector 50 mm (1 male)	<b>#042 418</b>	Used to connect weld lead to Dinse terminal machine		
Dinse Connector 50 mm (1 male, 1 female)	<b>#042 419</b>	Used to extend weld cables		
Tweco Terminal Adapter	<b>#042 465</b>	Male Dinse to female Tweco		
Cam-Lok Terminal Adapter	<b>#042 466</b>	Male Dinse to female Cam-Lok		

Date:

Total Quoted Price:



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