

Maxstar[®] 200 STR

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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.[®]

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[™] 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[™] 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[™] 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.



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**



Miller Electric Mfg. Co.
An Illinois Tool Works Company
1635 West Spencer Street
Appleton, WI 54914 USA

Equipment Sales US and Canada
Phone: 866-931-9730
FAX: 800-637-2315
International Phone: 920-735-4554
International FAX: 920-735-4125

Web Site
www.MillerWelds.com



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) DC 1–200 A (200–460 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	0.42*	—	—	—	—	—	0.05*	0.03*		
Stick (SMAW)	DC 1–90 A (120 VAC) DC 1–200 A (200–460 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	0.42*	—	—	—	—	—	0.05*	0.03*		

* 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

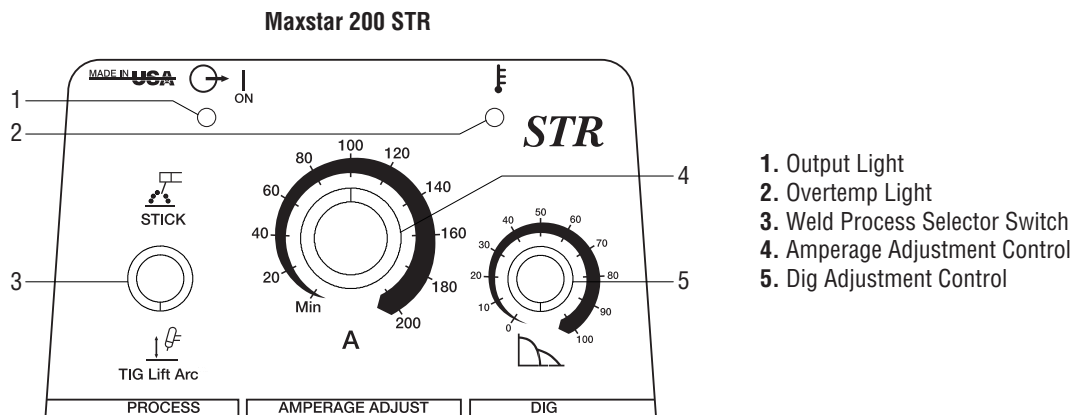
110–120 V INPUT VOLTAGE

%	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



Genuine Miller Accessories



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.

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)	Rack only 239 lb (108 kg)
		460 V at 36 A	20 kW	15 A (#220 514)		with Power Sources 367 lb (166 kg)

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

Ordering Information

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

Date: Total Quoted Price:

Distributed by:

