Maxstar 280 DX

TIG/Stick Welding Power Source





Quick Specs

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Industrial Applications

Precision fabrication Petro chemical Aerospace Food/beverage industry Dairy Shipboard

Processes

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

Input Power 208-575 V, 1- or 3-phase power

Amperage Range 1–280 A (DC)

Rated Output 200 A at 28 V, 60% duty cycle

Net Weight 22.7 kg (50 lb.)

Upgradeable and expandable. Front-panel memory-card data port provides the ability to easily upgrade software and expand product features.

Pro-Set™ eliminates the guesswork when setting weld parameters. Use Pro-Set when you want the speed, convenience and confidence of preset controls. Simply select the feature and adjust until Pro-Set appears on the display.

Sleep timer conserves electricity by powering down the machine if it sits idle for a specific time.

Auto-Line™ power management technology allows for any input voltage hookup (208–575 V) with no manual linking.

Cooler Power Supply (CPS). An integrated 120-volt dedicated-use receptacle to power the Coolmate™ 1.3. The power switch on the Maxstar also activates the receptacle to help prevent torch failure.

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

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.

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



Meter calibration allows digital meters to be calibrated for certification.

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



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

Comes complete with:

- Power source
- 2.4-meter (8 ft.) power cord
- Gas connection kit

DC TIG Features

Pulse. Pulsing can increase puddle agitation, arc stability and travel speeds while reducing heat input and distortion.

Exceptionally smooth and precise arc for welding exotic materials.

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.

Stick-Stuck detects if the electrode is stuck to the part and turns the welding output off to safely and easily remove the electrode. Menu selectable.

Specifications (Subject to change without notice.)









Welding Mode	Input Power	Welding Amperage Range	Rated Output		•	it Rated 400 V					Max. Open- Circuit Voltage	Dimensions	Net Weight
TIG	3-phase	1-280 A	235 A at 19.4 V, 60% duty cycle	17	15	9	7	6	6.2	6.0	60 VDC	H: 346 mm	22.7 kg
(GTAW)	1-phase	1-280 A	235 A at 19.4 V, 60% duty cycle	28	26	15	13	10	6.0	6.0	(11 VDC**)	(13.6 in.) W: 219 mm	(50 lb.)
Stick	3-phase	5-280 A	200 A at 28 V, 60% duty cycle	20	18	10	9	7	7.2	7.0		(8.6 in.)	
(SMAW)	1-phase	5-280 A	180 A at 27.2 V, 60% duty cycle*	30	27	15	13	10	6.2	6.2		D: 569 mm	
												(22.5 in.)	

^{*}Refer to owner's manual for 208 V output ratings and duty cycle. **Low OCV sense voltage for stick and Lift-Arc™ TIG.

Certified by Canadian Standards Association to both the Canadian and U.S. Standards. Certified by Canadian Standards Association to both the Canadian and U.S. Standards.

IP23 rating — This equipment is designed for outdoor use. It may be stored, but is not intended to be used outside during precipitation unless sheltered. Operating temperature range is -10 to 40°C (14 to 104°F). Storage temperature range is -30 to 65°C (-22 to 149°F). Portions of the preceding text are contained in EN 60974-1: "Welding power sources for arc welding equipment."



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Genuine Miller® Accessories



Small Runner Cart 301318

Designed for Maxstar 210/280. Dvnastv 210/280. STH 270 and STi 270, with or without cooler. Cart features single cylinder rack, cable holder and foot pedal holder.



MH Running Gear 018035026

Designed for Maxstar 210/280, Dynasty 210/280, STH 270 and STi 270, with or without cooler. Easy-to-maneuver two-wheel cart with single cylinder rack, cable holder and storage area.



Coolmate™ 1.3 CE 028042108

Designed to integrate with Maxstar 280 and Dynasty 210/280. For use with water-cooled torches rated up to 280 amps. 4.9 L (1.3 gal.) capacity.

Remote Controls and Switches



Wireless Remote Foot Control 300429

For remote current and contactor control. Receiver plugs directly

into the 14-pin receptacle of Miller machine.



RFCS-14 HD Foot Control 194744

Maximum flexibility is accomplished with a reconfigurable cord that can exit the front, back or either side of the pedal. Provides remote current and contactor control.



RCC-14 Remote Contactor and Current Control 151086 14-pin plug

Side-to-side rotary-motion fingertip control fastens to TIG torch using two hook-and-loop straps.



RCCS-14 Remote Contactor and Current

Control 043688 14-pin plug Up-and-down rotary-motion fingertip control fastens to TIG torch using two hook-and-loop straps.



SHRC-14 Remote Control **058040019** 5 m (16.4 ft.) 058040020 10 m (32.8 ft.) **058040021** 20 m (65.6 ft.)

Single-hand control for current only.



RHC-14 Hand Control 242211020

Miniature hand control for remote current and contactor control.



RMS-14 On/Off Control 187208

Momentary-contact switch for contactor control. Rubber-covered pushbutton dome switch ideal for repetitive on-off applications.

Ordering Information

Equipment and Options	Stock No.	Description	Qty.	Price	
Maxstar® 280 DX with CPS	907539002	Auto-Line™ 208 – 575 V, 50/60 Hz, CE. 2.4 m (8 ft.) power cord			
Accessories					
Small Runner Cart	301318				
MH Running Gear	018035026	MH two-wheeled cart with cylinder rack			
Coolmate™ 1.3 CE	028042108	115 V, 60 Hz, CE . Requires coolant			
Adapter Cord	255814	Supplies power to 115 V cooler (not required for Coolmate 1.3)			
Industrial Coolant	043810	3.78-liter plastic bottle (must be ordered in quantities of 4)			
Memory Card Expansion	301151 301152 301328	14-pin automation expansion 14-pin Modbus® expansion Hot wire power supply expansion			
Memory Card (Blank)	301080				
Stick Welding Cable Kit	058066040	200 A, 35 mmq, 5 m (16.4 ft.)			
Work Piece Cable	057014148 057014149	300 A, 50 mmq, 3 m (9.8 ft.) 300 A, 50 mmq, 5 m (16.4 ft.)			
TIG Torch					
Remote Controls					
Wireless Remote Foot Control	300429	Foot control with wireless 27.4 m (90 ft.) operating range			
RFCS-14 HD	194744	6 m (20 ft.), heavy-duty foot control			
RCC-14	151086	8 m (26.5 ft.), remote current/contactor side-to-side rotary control			
RCCS-14	043688	8 m (26.5 ft.), remote current/contactor up-and-down rotary control			
SRHC-14		See above for more information.			
RHC-14	242211020	6 m (20 ft.), remote current/contactor hand control			
RMS-14	187208	8 m (26.5 ft.), momentary-contact switch for contactor control			

Date: **Total Quoted Price:**

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