

Maxstar® 280 DX

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**Stick/TIG Welding
Power Source**



Quick Specs



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, 3- or 1-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.

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.

New!



Meter calibration allows digital meters to be calibrated for certification.

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

Maxstar 280 DX comes complete with:

- Power source
- 3-meter (10 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	Amps Input at Rated Load Output, 50/60 Hz							Max. Open-Circuit Voltage	Dimensions	Net Weight
				208 V	230 V	400 V	460 V	575 V	KVA	KW			
TIG (GTAW)	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 (11 VDC**)	H: 346 mm (13.6 in.) W: 219 mm (8.6 in.) D: 569 mm (22.5 in.)	22.7 kg (50 lb.)
	1-phase	1–280 A	235 A at 19.4 V, 60% duty cycle	28	26	15	13	10	6.0	6.0			
Stick (SMAW)	3-phase	5–280 A	200 A at 28 V, 60% duty cycle	20	18	10	9	7	7.2	7.0			
	1-phase	5–280 A	180 A at 27.2 V, 60% duty cycle*	30	27	15	13	10	6.2	6.2			

* 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. All CE models conform to the applicable parts of the IEC 60974 series of 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."



Power source is warranted for 3 years, parts and labour.



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Genuine Miller® Accessories



Small Runner Cart #300 988

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



MH Running Gear #018 035 026

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



Coolmate™ 1.3 CE #028 042 108

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

Remote Controls and Switches



Wireless Remote Foot Control #300 429

For remote current and contactor control. Receiver plugs directly into the 14-pin receptacle of Miller machine.



RFCS-14 HD Foot Control #194 744

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 #151 086

14-pin plug
Side-to-side rotary-motion fingertip control fastens to TIG torch using two Velcro® straps.



RCCS-14 Remote Contactor and Current Control #043 688

14-pin plug
Up-and-down rotary-motion fingertip control fastens to TIG torch using two Velcro® straps.



SHRC-14 Remote Control

#058 040 019 5 m (16.4 ft.)

#058 040 020 10 m (32.8 ft.)

#058 040 021 20 m (65.6 ft.)

Single-hand control for current only.



RHC-14 Hand Control #242 211 020

Miniature hand control for remote current and contactor control.



RMS-14 On/Off Control #187 208

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

Ordering Information

Equipment and Optionse	Stock No.	Description	Qty.	Price
Maxstar® 280 DX with CPS	#907 539 002	Auto-Line™ 208–575 VAC, 50/60 Hz, CE. 2.4-m (8 ft.) primary cord		
Accessories				
Small Runner Cart	#300 988			
MH Running Gear	#018 035 026	MH two-wheeled cart with cylinder rack		
Coolmate™ 1.3 CE	#028 042 108	115 VAC, 60 Hz, CE. <i>Requires coolant</i>		
Blu-Liquid Coolant	#050 024 004	Low conductivity, 10 litres		
Memory Card Expansion	#301 151 #301 152	14-pin automation expansion 14-pin Modbus® expansion		
Welding Cable Kit, Stick	#058 066 040	200 A, 35 mm², 5 m (16.4 ft.)		
Work Piece Cable	#057 014 148 #057 014 149	300 A, 50 mm², 3 m (9.8 ft.) 300 A, 50 mm², 5 m (16.4 ft.)		
TIG Torch				
Tungsten				
Helmet				
Gas Hose				
Remote Controls				
Wireless Remote Foot Control	#300 429	Foot control with wireless 27.4-m (90 ft.) operating range		
RFCS-14 HD	#194 744	6 m (20 ft.), heavy-duty foot control		
RCC-14	#151 086	8 m (26.5 ft.), remote current/contactor side-to-side rotary control		
RCCS-14	#043 688	8 m (26.5 ft.), remote current/contactor up-and-down rotary control		
SRHC-14		See above for more information.		
RHC-14	#242 211 020	6 m (20 ft.), remote current/contactor hand control		
RMS-14	#187 208	8 m (26.5 ft.), momentary-contact switch for contactor control		

Date:

Total Quoted Price:

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