

CST™ 282

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Stick/TIG Welding
Power Source 

Quick Specs



Industrial Applications

Power plant construction
Petrochemical construction
Maintenance and repair
Shipbuilding

Processes

Stick (SMAW)
TIG (GTAW) Lift-Arc™

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

Amperage Range Stick: 30–280 A, TIG: 5–280 A

Max. Open-Circuit Voltage 103 VDC

Net Weight 34.6 lb. (15.7 kg)

Superior stick arc performance with settings specifically designed for XX10 and XX18 electrodes and a stiff and soft setting for each. Whether welding pipe or in the flat there is a setting for each application. The last amperage used for each of the processes is retained, so when you return from a different process the last setting is loaded and you are ready to go.

Adaptive Hot Start™ for stick arc starts automatically increases the output amperage at the start of a weld. Prevents the electrode from sticking.

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

Digital meter for more precise control when presetting or monitoring welding amperage.

Portable in the shop or at the jobsite — at 34.6 pounds the CST 282 is easily moved from location to location.

14-pin receptacle on front of the machine provides the flexibility to use remote controls to adjust the amperage and turn the output on and off.

Fan-On-Demand™ cooling system operates only when needed, providing power efficiency and noise reduction.

Six-foot power cable included.

Rack mountable for protection, storage and transportation of multiple power sources while using a single primary power cable.



CST 282 with Tweco-style receptacles shown.



Welds Stick/TIG



Portable



Simple, Accurate Interface



Flexible



Universal connector system allows the machine to be quickly configured to either Tweco®- or Disne-style receptacles. Extra receptacles and wrench shown are sold separately as Universal Connector Kits (see page 4).



For portability and reliability, Auto-Line allows for any input voltage hookup (208–575 V, single- or three-phase) with no manual linking, providing convenience in any job setting. Ideal solution for dirty or unreliable input power.



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



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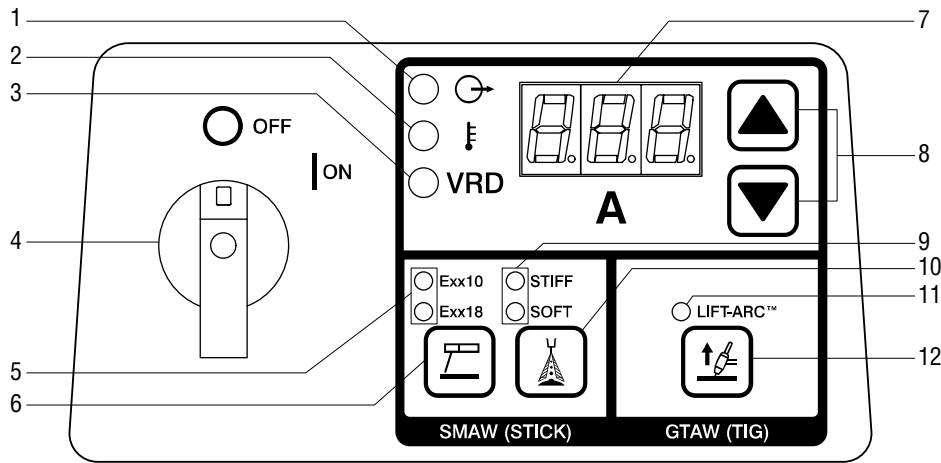
Specifications (Subject to change without notice.)



Welding Mode	Input Power	Welding Amperage Range	Rated Output	Amps Input at Rated Load Output, 50/60 Hz					KVA	KW	Max. Open-Circuit Voltage	Dimensions	Net Weight
				208 V	230 V	400 V	460 V	575 V					
Stick (SMAW)	Three-phase	30–280 A	280 A at 31.2 VDC, 35% duty cycle	29.63	26.65	15.71	13.92	12.08	12	10.2	103 VDC	H: 13.5 in. (343 mm) W: 8 in. (203 mm) D: 18.5 in. (470 mm)	34.6 lb. (15.7 kg)
			200 A at 28 VDC, 100% duty cycle	18.86	17.09	10.6	9.37	8.02	8	6.4			
	Single-phase	30–280 A	200 A at 28 VDC, 50% duty cycle*	33.7	30.65	17.61	16.18	14.51	8.3	6.6	103 VDC		
			150 A at 26 VDC, 100% duty cycle*	23.07	20.59	12.97	11.8	11.15	6.4	4.5			
TIG (GTAW)	Three-phase	5–280 A	280 A at 21.2 VDC, 35% duty cycle	20.77	18.85	11.54	10.22	8.95	8.9	7.1	9.5 VDC		
			200 A at 18 VDC, 100% duty cycle	12.89	11.74	7.42	6.55	5.49	5.4	4.3			
	Single-phase	5–280 A	200 A at 18 VDC, 50% duty cycle*	22.12	19.71	12.89	11.06	10.61	6.1	4.4	9.5 VDC		
			150 A at 16 VDC, 100% duty cycle*	14.84	13.38	8.73	8.63	7.72	5.1	2.9			

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

Control Panel

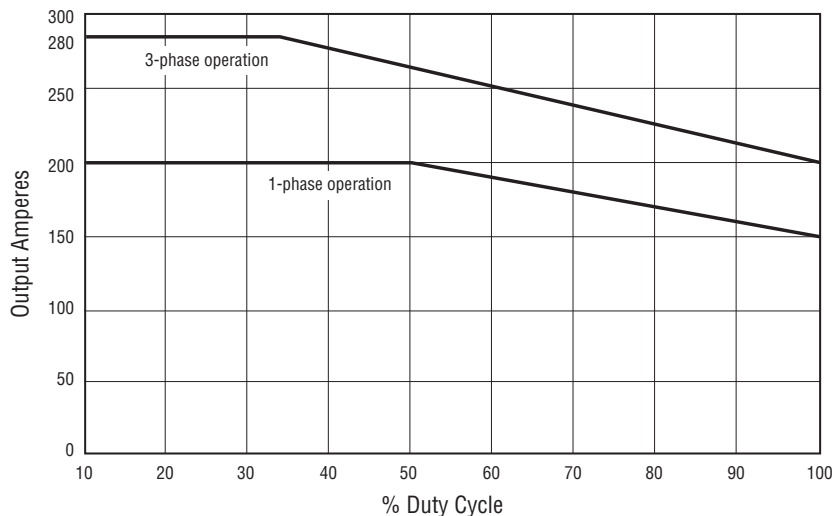


1. Output Indicator Light
2. High Temperature Shutdown Light
3. VRD Indicator Light*
4. Power Switch
5. Electrode Indicator Lights
6. Stick Process Select
7. Amps Display
8. Amperage Adjustment Buttons
9. Arc Control Indicator Lights
10. Arc Control Select
11. Lift-Arc Indicator Light
12. TIG Process Select

*Voltage Reducing Device (VRD) — see Owner's Manual for more information.

Performance Data

Duty Cycle Chart



Genuine Miller® Accessories

TIG (GTAW) Torches



Weldcraft™ TIG Torches

The Weldcraft line of air-cooled and water-cooled TIG torches complements the most popular TIG power source line available today.

A-150 Valve

WP-17V-12-2 12 ft. (3.7 m)

WP-17V-25-2 25 ft. (7.6 m)

150-amp air-cooled torch with valve and two-piece cable.

A-200 Valve

WP-26V-12-2 12 ft. (3.7 m)

WP-26V-25-2 25 ft. (7.6 m)

200-amp air-cooled torch with valve and two-piece cable.

These two-piece-cable TIG torches require the installation of a Tweco®-style connector (191981) or Dinse-style connector (042533) depending on the CST receptacle type.

Remote Controls



RCC-14 Remote Contactor and Current Control* 151086

East/west rotary-motion fingertip control attaches to TIG torch using two hook-and-loop fasteners. Includes 26.5-foot (8 m) cord and 14-pin plug.



RCCS-14 Remote Contactor and Current Control* 043688

North/south rotary-motion fingertip control attaches to TIG torch using two hook-and-loop fasteners. Includes 26.5-foot (8 m) cord and 14-pin plug.



RHC-14 Hand Control*

242211020 20 ft. (6 m)

242211100 100 ft. (30.5 m)

Miniature hand control for remote current and contactor control. Dimensions: 4 x 4 x 3.25 inches (102 x 102 x 82 mm). Includes cord and 14-pin plug.



RFCS-14 HD Foot Control* 194744

Heavy-duty foot pedal control with increased stability and durability from larger base and heavier cord. Reconfigurable cord can exit front, back or either side of the pedal for flexibility. Includes 20-foot (6 m) cord and 14-pin plug.



Wireless Remote Foot Control* 300429

For remote current and contactor control. Receiver plugs directly into the 14-pin receptacle of Miller® machine. 90-foot (27.4 m) operating range.



Wireless Remote Hand Control* 300430

For remote current and contactor control. Receiver plugs directly into the 14-pin receptacle of Miller® machine. 300-foot (91.4 m) operating range.

Extension Cables for 14-Pin Remote Controls

242208025 25 ft. (7.6 m)

242208050 50 ft. (15.2 m)

CST™ 282 Rack



CST 8-Pack Rack

CST 4-Pack Rack

- The rack provides a simple means of protecting and transporting multiple welding power sources for construction, power plant turn-arounds and shipbuilding applications.
- One easy connection allows up to eight inverters to be connected with one primary power drop.
- All controls including power switch are located on front of machine for easy access.
- Top cover protects machines from falling debris.

- Lift eye(s) simplify crane or overhead lifting device transport.
- Lift truck fork pockets.
- Common output ground connection (for same polarity use only).
- Racks include casters that can be bolted to the rack base. Two swivel casters and two non-swivel casters. Large 5-inch diameter wheels enable the rack to be moved over grating and driveway gravel.

CST Rack Specifications

Power Source	Input Power to Rack	Capacity	Dimensions	Net Weight
CST 282	208–575 V, three-phase, 50/60 Hz (fused for 460 V)	4	H: 50.75 in. (1,289 mm) W: 25.5 in. (648 mm) D: 26.5 in. (673 mm)	330 lb. (150 kg)
		8	H: 59.375 in. (1,508 mm) W: 43 in. (1,092 mm) D: 34.375 in. (873 mm)	550 lb. (250 kg)

Ordering Information

Power Source	Stock No.	Description	Qty.	Price
CST™ 282 230–575 V	907770	Tweco®-style receptacles		
	907810	Dinse-style receptacles		
Power Source Racks				
CST™ 282 Rack 230–575 V (fused for 460 V)	951883	4-pack rack, Tweco®-style receptacles, includes castors and cables to connect power sources to common work connection		
	907812	8-pack rack, Tweco®-style receptacles, includes castors and cables to connect power sources to common work connection		
Empty Racks (fuses sold separately)	301609	4-pack rack, includes castors and cables to connect power sources to common work connection		
	301610	8-pack rack, includes castors and cables to connect power sources to common work connection		
Fuse	212541	20 A fuse for 575 V input (order 12 per 4-pack rack or 24 per 8-pack rack)		
Weldcraft™ TIG Torches				
See page 3				
Remote Controls				
See page 3				
Cable Connectors and Adapters				
Universal Connector Kits	301611	Includes Tweco®-style receptacles, wrench and electrical joint compound		
	301595	Includes Dinse-style receptacles, wrench and electrical joint compound		
Tweco®-Style Connector	191981	#1/0 to #2/0 AWG cable size		
Dinse-Style Connector	042533	#1/0 to #2/0 AWG cable size		

Date:

Total Quoted Price:

Distributed by:

