Dynasty 200 Series

Issued September 2003 • Index No. AD/4.8





Heavy Industrial Applications

Petro/Chem Fabrication Aerospace Food/Beverage Industry **Mechanical Contractors** Shipboard Installation/Repair Dairy Industry

Processes

TIG (GTAW) Pulsed TIG (GTAW-P) with DX Model Stick (SMAW)

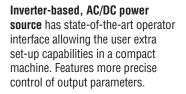
Input Power Requires 3- or 1-Phase Power Amperage Range 1-200 A Max. Open-Circuit Voltage 80 Weight 45 lb (20.5 kg)

The Power of Blue[®].

NEW! Low OCV Stick is a simple design that reduces the open-circuit voltage to 13 volts when the welding power source is not in use. This built-in circuit design eliminates the need for add-on voltage reducers.

Easy installation — Auto-Line[™] provides state-of-the-art flexibility to the end user. The Auto-Line circuitry automatically connects to 120-460 VAC, single- or three-phase power without removing the covers to relink the power source. No longer is there a concern if you have the correct machine for shop or the job site.

Advanced Squarewave arc for improved weldability on aluminum and magnesium using low power. Continuous high-frequency is NOT needed because of the advanced Squarewave arc, and extended balance control allows you to fine-tune the duration of the electrode negative portion of the cycle from 30 to 90%. This provides precise cleaning control and prolonged tungsten life.



Programmable HF start parameters allows the operator to independently set HF starting conditions based upon process or application.

HF start for non-contact arc starting that eliminates tungsten or material contamination.

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

Superior arc performance even on difficult to run electrodes like E6010.

Portable in the shop or at the job site -at 45 lb the Dynasty 200 is easily moved from location to location.



Available in Two Models:

- **SD** Provides the basic features that are required for most AC/DC TIG or Stick welding applications.
- DX When the job demands greater control the DX provides pulse on/off, pulse frequency, peak % time, background amperage, initial amperage, initial slope time, final slope time and final amperage control.

Extended Balance Control range (30–90% EN) allows precise cleaning control and prolonged tunasten life.

AC frequency control range of 20-250 Hz provides control for a focused arc, resulting in better directional control to help produce desired arc/weld bead characteristics.



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





Miller Electric Mfg. Co. An Illinois Tool Works Company

1635 West Spencer Street Appleton, WI 54914 USA

International Headquarters

Phone: 920-735-4505 USA FAX: 920-735-4134 Canadian FAX: 920-735-4169 International FAX: 920-735-4125 Web Site www.MillerWelds.com



Specifications (Subject to change without notice.)

Welding Mode	Input Power	Rated Output	Welding Amperage Range	Max. Open- Circuit Voltage		Input at 230 V	Rated A	Load Ou 460 V	•)/60 Hz KW	Dimensions	Net Weight
TIG (GTAW)	3-Phase	200 A at 18 V, 20% Duty Cycle	120 VAC 1–150 A 200–460 VAC 1–200 A	150 A 5-10** 0-460 VAC	_	13.7 0.16*	8.7 0.24*	6.9 0.25*	5.5 0.06*	5.2 0.03*	H: 13-1/2 in (343 mm) W: 7-1/2 in (191 mm)	45 lb (20.5 kg)
		150 A at 16 V, 60% Duty Cycle				9.4 0.16*	6.0 0.24*	4.7 0.25*	3.8 0.06*	3.6 0.03*		
	1-Phase	150 A at 16 V, 60% Duty Cycle			_	15.8 0.23*	_	7.9 0.25*	3.6 0.05*	3.6 0.02*	D: 21-1/2 in (546 mm)	
		140 A at 15.6 V, 40% Duty Cycle			31.0 0.42*	_	_	_	3.6 0.05*	3.5 0.03*	-	
		100 A at 14 V, 100% Duty Cycle			20.7 0.42*	_	_	_	2.3 0.05*	2.3 0.03*		
Stick (SMAW)	3-Phase	200 A at 28 V, 20% Duty Cycle		80 VDC 5-10**	_	20.8 0.16*	13.0 0.24*	10.2 0.25*	8.1 0.06*	7.8 0.03*		
		130 A at 25.2 V, 60% Duty Cycle			_	12.3 0.16*	7.6 0.24*	6.0 0.25*	4.8 0.06*	4.6 0.03*		
	1-Phase	130 A at 25.2 V, 60% Duty Cycle			_	20.0 0.23*	_	10.0 0.25*	4.7 0.05*	4.7 0.03*		
		100 A at 24 V, 60% Duty Cycle			31.3 0.42*	_		_	3.6 0.05*	3.6 0.03*		
		90 A at 23.6 V, 100% Duty Cycle			27.6 0.42*	_	_	_	3.2 0.05*	3.2 0.03*		

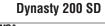
* While idling. ** Sense voltage for Stick and Lift-Arc^m TIG. Note: Duty cycle limitations on units with 115 V input power are due to the input power cord supplied with the unit.

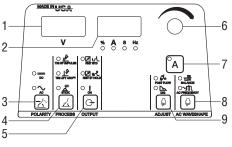
🐠 Certified by Canadian Standards Association to both Canadian and U.S. Standards. 🛛 💽 Conforms to European standards.

Control Panels

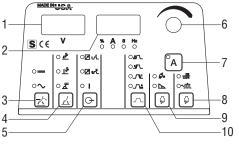
1. Voltmeter

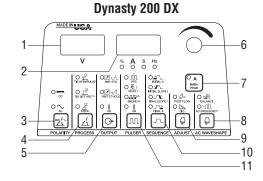
- 2. Ammeter
- 3. Polarity Control 4. Process Control
- 5. Output Control
- 6. Encoder Control
- 7. Amperage Control
- 8. AC Waveshape Control
- 9. Adjust Control
- 10. Sequencer Controls
- 11. Pulser Control



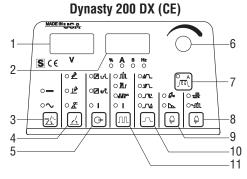








3 1 Phase Phase



Control Panel Parameter Values

A.	Preflow (s)	0.0-25
B.	Initial Amperage (A)	5-200
C.	Initial Slope Time (s)	0.0 - 25

- **D.** Weld Amperage (A) 5 - 200
- E. AC Frequency (Hz)
- F. Balance Control (%EN)
- **G.** Background Amperage (%)
- H. Pulse Frequency (Hz)
- I. Peak Percent Time (%)
- **J.** Final Slope Time (s) **K.** Final Amperage (A) L. Postflow Time (s) 0.1 - 500**M.** Dig (%)

20 - 250

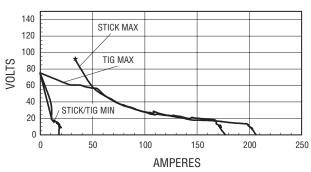
50 - 90

0-100

5 - 95

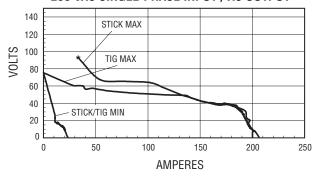
- 0.0 255 - 2000.0 - 50
- 0 100

Performance Data

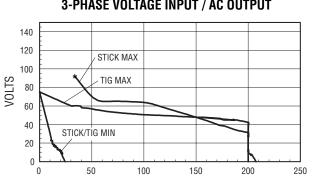


115 VAC INPUT / AC OUTPUT



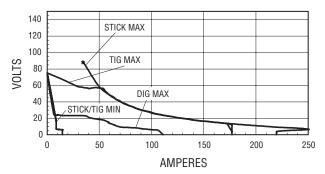


3-PHASE VOLTAGE INPUT / AC OUTPUT

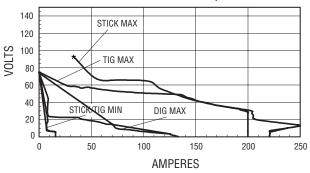


AMPERES

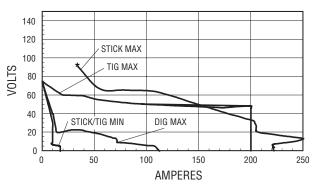
115 VAC INPUT / DC OUTPUT



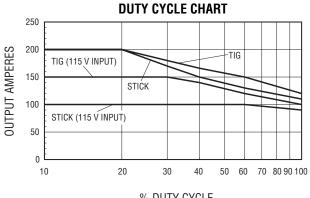
230 VAC SINGLE-PHASE INPUT / DC OUTPUT



3-PHASE VOLTAGE INPUT / DC OUTPUT



*DIG setting must be reduced to obtain currents less than those shown in Volt-Ampere curves.



% DUTY CYCLE



Included Accessories

Non-CE SD/DX Models Include:

- (1) DA1820L torch adapter
- (2) International-style connectors 35/50

CE SD/DX Models Include:

- (2) International-style connectors 35/50
- (1) 14-pin amphenol with clamp
- (1) 3/8 in 19 BSPP gas fitting

Ordering Information

Equipment and Options	Stock No.	Description	Qty.	Price
Power Source				
Dynasty™ 200 SD	#907 099	Basic controls for TIG/Stick, 120-460 VAC		
	#907 100	Basic controls for TIG/Stick, 120-460 VAC, CE		
Dynasty [™] 200 DX	#907 099-01-1 #907 100-01-1	Full feature controls for TIG/Stick, 120–460 VAC Full feature controls for TIG/Stick, 120–460 VAC, CE		
TIG Accessories				
TIG Torch Adapters	#194 720 #190 219 #194 724	DA-917F DA-1820L DA-26R		
Contractor Kits	#195 055 #195 054	150 A TIG/Stick with RCCS-14 fingertip control 150 A TIG/Stick with RFCS-14 HD foot control		
Diamondback™ TIG Torches		See Diamondback TIG Torch Selector Guide		
Consumables, Tungsten		See Parts Guide		
Gas Cylinder, Gas Hose and Fittings				
Stick Accessories				
Stick Electrodes				
Remote Controls				
RFCS-14 HD	#194 744	Heavy-duty foot control		
RFCS-14	#043 554	Foot control		
RCCS-14	#043 688	North/south fingertip control		
RCC-14	#151 086	Side-to-side fingertip control		
RMLS-14	#129 337	Momentary/maintained rocker control		
RMS-14	#187 208	Momentary rubber dome switch		
Educational Resources				
Gas Tungsten Arc (TIG) Welding Book	#170 555			
TIG Fundamentals Welding CD	#196 567			
Coolant Systems				
Coolmate™ 3	#043 007 #043 007-01-2 #043 008 #043 008-01-2	115 VAC 115 VAC, CE 230 VAC 230 VAC, CE		
Coolmate™ V3	#043 009 #043 009-01-2	115 VAC 115 VAC, CE		
Coolmate™ 4	#042 288 #042 288-01-5	115 VAC 115 VAC, CE		
Aluminum-Protecting Coolant	#043 809			
Low-Conductivity Coolant	#043 810			
Cooling System Hoses				
International-Style Connectors				
International-Style Connector Kit	#042 418	50 mm		1
Extension Kit for International-Style	#042 419	50 mm		
International/Tweco® Adapter	#042 465	A one-piece adapter with International-style male plug		
International/Cam-Lok Adapter	#042 466	A one-piece adapter with International-style male plug		

Total Quoted Price:

Date:



Distributed by: