Dynasty 200 Series

TIG/Stick Welding Power Source

Quick Specs

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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.

Inverter-based, AC/DC power source has state-of-the-art operator interface allowing the user extra set-up capabilities in a compact machine. Features more precise control of output parameters.

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.

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.







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 tungsten 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.





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Web Site

www.MillerWelds.com



Specifications (Subject to change without notice.)









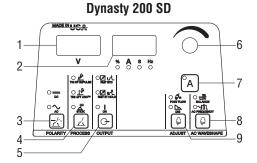
| Welding Mode | Input Power | Rated Output | Welding Amperage Range | Max. Open- Circuit Voltage | Amps 120 V | Input at 230 V | Rated I | _oad Ou 460 V | |)/60 Hz KW | Dimensions | Net Weight |
|-----------------|----------------|------------------------------------|--|-------------------------------------|---------------|-------------------|---------------|------------------|--------------|---------------|---|--------------------|
| TIG (GTAW) | 3-Phase | 200 A at 18 V, 20% Duty Cycle | 120 VAC 1-110 A 200-460 VAC 1-200 A | 80 VDC 5-10** | _ | 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) D: 21-1/2 in (546 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* | | |
| | | 150 A at 16 V, 60% Duty Cycle | | | _ | 15.8 0.23* | _ | 7.9 0.25* | 3.6 0.05* | 3.6 0.02* | | |
| | | 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 | 120 VAC 1-90 A 200-460 VAC 1-200 A | 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* | | |
| | | 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* | | |

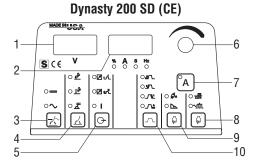
^{*} While idling. ** Sense voltage for Stick and Lift-Arc™ TIG. Note: Duty cycle limitations on units with 115 V input power are due to the input power cord supplied with the unit.

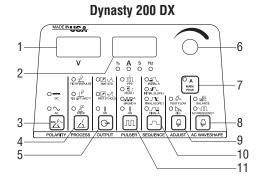
Certified by Canadian Standards Association to both Canadian and U.S. Standards. Conforms to European standards.

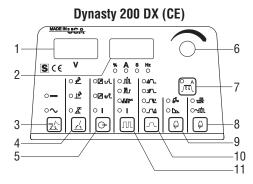
Control Panels

- 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 Control10. Sequencer Controls
- 11. Pulser Control







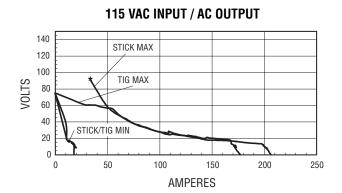


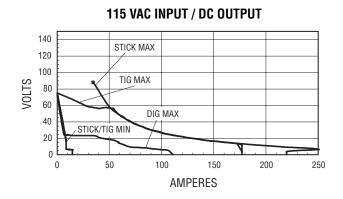
Control Panel Parameter Values

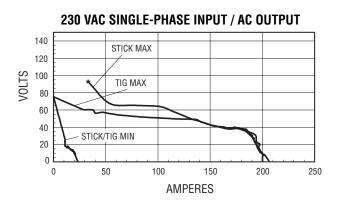
| A. Preflow (s) | 0.0 - 25 | E. AC Frequency (Hz) | 20-250 | J. Final Slope Time (s) | 0.0 - 25 |
|---------------------------|----------|-----------------------------------|-----------|-------------------------|----------|
| B. Initial Amperage (A) | 5-200 | F. Balance Control (%EN) | 50-90 | K. Final Amperage (A) | 5 - 200 |
| C. Initial Slope Time (s) | 0.0 - 25 | G. Background Amperage (%) | 0-100 | L. Postflow Time (s) | 0.0 - 50 |
| D. Weld Amperage (A) | 5-200 | H. Pulse Frequency (Hz) | 0.1 - 500 | M. Dig (%) | 0 - 100 |
| | | I. Peak Percent Time (%) | 5-95 | | |

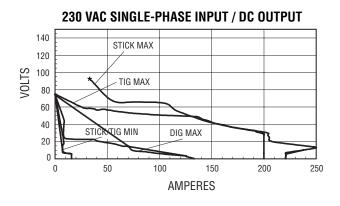


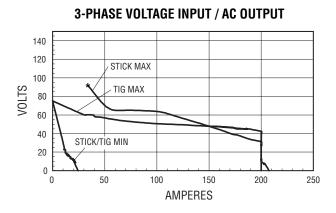
Performance Data

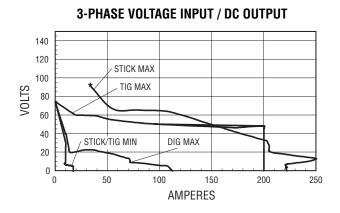




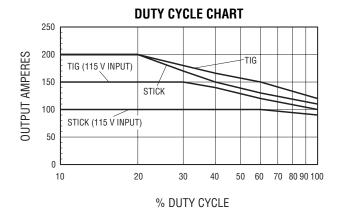








*DIG setting must be reduced to obtain currents less than those shown in Volt-Ampere curves.





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 #907 100 | Basic controls for TIG/Stick, 120 – 460 VAC 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 0(#043 0(#043 0(#043 0) | | 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 | | |
| 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 | | |

Date: Total Quoted Price:



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