



# Dynasty® 210DX

Part No: MR907686003-1

## High Precision AC/DC TIG Welding

IDEAL FOR PRECISION FABRICATION & MAINTENANCE JOBS SPLIT BETWEEN THE WORKSHOP & SITE.



- ✓ AC/DC TIG
- ✓ PULSED TIG
- ✓ STICK

APPLICATIONS			PACKAGE INCLUDES
Precision Fabrication	Defence Industry	Railcar	Power Source
Aerospace	Infrastructure	Marine Industry Repair and Fabrication	2x 50mm Male Cable Connectors
Construction	Manufacturing	Anodized Aluminium Fabrication	Shoulder Strap
Auto/Cycle (Racing, Customising, Restoring)	Architectural Metal Fabrication		Input Lead (No Plug)

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## UPDATE AND EXPAND

Front panel memory card data port provides the ability to easily update 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. This programmable feature will power down the machine if it sits idle for a specified time.

## AUTO-LINE POWER MANAGEMENT TECHNOLOGY

Allows for any input voltage hookup (120 – 480 V) with no manual linking, providing convenience in any job setting. Ideal solution for dirty or unreliable power. Will run on single phase and 3 phase power. Tolerant to lower generator output.

## COOLER POWER SUPPLY (CPS)

An integrated 120 volt dedicated-use receptacle for the Coolmate™ 1.3.

## COOLER-ON-DEMAND™

This 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.

## METER CALIBRATION

Allows digital meters to be calibrated for certification.

## WIND TUNNEL TECHNOLOGY™

Protects internal electrical components from airborne contaminants, extending the product life.

## FAN-ON-DEMAND™

Power source cooling system operates only when needed, reducing noise, energy use and the amount of contaminants pulled through the machine.

## VRD FUNCTIONALITY

Comes with Voltage Reduction Device (VRD), compliant with AS1672.2 2007 Category C Environment. Please note: VRD can be disabled in Advanced Tech Menu by pressing a combination of unmarked buttons.

## AC TIG FEATURES

### BALANCE CONTROL

Provides adjustable oxide removal which is essential for creating the highest quality aluminum welds. Features extended ranges.

### FREQUENCY

Controls the width of the arc cone and can improve directional control of the arc.

## AC WAVEFORMS

### ADVANCED SQUAREWAVE

Fast freezing puddle, deep penetration and fast travel speeds.

### SOFT SQUAREWAVE

For a soft buttery arc with maximum puddle control and good wetting action.

### SINE WAVE

For customers that like a traditional arc. Quiet with good wetting.

### TRIANGULAR WAVE

Reduces the heat input and is good on thin aluminum. Fast travel speeds.

## DC TIG FEATURES

### EXCEPTIONALLY SMOOTH AND PRECISE ARC

For welding exotic materials.

## AC/DC STICKS 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.

### AC FREQUENCY CONTROL

Adds stability for smoother welds when AC Stick welding.

### 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.



**DYNASTY® 210DX  
SETUP  
DVD**

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PRODUCT SPECIFICATIONS												
WELDING MODE	INPUT POWER	WELDING AMP RANGE	RATED OUTPUT	PHASE	AMPS INPUT AT RATED LOAD OUTPUT, 50/60 HZ					MAX. OPEN CIRCUIT VOLTAGE	DIMENSIONS (MM)	NET WEIGHT
					240 V	400 V	480 V	KVA	KW			
TIG (GTAW)	208 - 480 V	2 - 210 A (AC) 1 - 210 A (DC)	210 A at 18.4 V, 60% Duty Cycle	3 Phase	-	9	-	6.0	5.8	80 V DC (11 V DC, VRD*)	H: 346 W: 219 D: 569	21.3kg 22.7kg with CPS
				1 Phase	24	14	12	5.8	5.8			
Stick (SMAW)	208 - 480 V	5 - 210 A	160 A at 26.4 V, 60% Duty Cycle	3 Phase	-	9	-	6.1	5.8			
				1 Phase	25	15	12	6.0	6.0			

\*Low VRD sense voltage for Stick and Lift-Arc™ TIG.  
 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 14 to 104° F (-10 to 40° C). Storage temperature range is -22 to 149° F (-30 to 65° C). Portions of the preceding text are contained in EN 60974-1: \*Welding power sources for arc welding equipment.\*

PERFORMANCE DATA						
INPUT POWER	TIG (GTAW) DUTY CYCLE	STICK (SMAW) DUTY CYCLE	GENERATOR REQUIREMENT	AC TIG MATERIAL THICKNESS RANGE (MM)	DC TIG MATERIAL THICKNESS RANGE	STICK ELECTRODE MAXIMUM DIAMETER
208 - 480 V		210 A, 30%	9kW	0.3 - 6.4mm	0.05 - 6.4mm	6010: 4.8mm
	210 A, 60%	160 A, 60%	6kW			7018: 4.0mm
	175 A, 100%	125 A, 100%	4.5kW			7024: 4.0mm

OPTIONAL EXTRAS	
TIG Torch Kit	KIT0005
Water Cooled TIG Torch Kit	MR300185
Coolmate 1.3	MR300972
Small Running Cart	MR301318
Wireless Remote Foot Control	MR300429
RFCS-14HD Foot Control	MR043554
RHC-14 Hand Control	MR242211020
Wireless Hand Control	MR300430