

# Dynasty<sup>®</sup> 280DX

Part No: MDYNASTY280DX

## High Precision AC/DC TIG Welding

POWERFUL COMBINATION OF  
CAPABILITY AND PORTABILITY.



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



APPLICATIONS	
Aerospace	Railcar
Construction	Shipbuilding
Heavy Equipment	Boat / Yacht
Manufacturing	High Purity Processing
Infrastructure	
Manufacturing	

  

PROCESSES	
TIG (GTAW)	Stick (SMAW)
Pulsed TIG (GTAW-P)	Air Carbon Arc Cutting and Gouging (CAC-A)

  

PACKAGE INCLUDES	
Power source	Shoulder Strap
2 x 50mm Male Cable Connectors	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 guess work 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.

## COOLER-ON-DEMAND™

This feature operates the auxiliary cooling system only when needed, reducing noise, energy use, and airborne contaminants pulled through the cooler.

## COOLER POWER SUPPLY (CPS)

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

## 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.

## 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 (210 – 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.

## WIND TUNNEL TECHNOLOGY™

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

## FAN-ON-DEMAND™

Variable speed fan adjusts to match cooling requirements - reducing noise, energy use and the amount of contaminants pulled through the machine.

## METER CALIBRATION

Allows digital meters to be calibrated for certification.

## 3 YEAR WARRANTY

For details, refer to Miller's True Blue warranty statement.

## 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 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.

### 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.

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PRODUCT SPECIFICATIONS										
WELDING MODE	RATED OUTPUT	PHASE	AMPS INPUT AT RATED LOAD OUTPUT, 50/60 HZ					GEN. KVA	DIM. (MM)	WEIGHT
			230 V	400 V	480 V	KW	KVA			
Stick (MMAW)	280A at 31.2V 15% Duty cycle	3	-	16.7	-	11.8	12.2	13	H: 346 W: 219 D: 569	25kg
		1 (10% DC)	52.8	29.5	25.24	12	12.3	13		
	160A at 26.4V 100% Duty Cycle	3	-	8.8	-	6.1	6.3	7		
		1	26.4	15.0	13	6	6.1	7		
TIG (GTAW)	280 A at 21.2V, 25% Duty Cycle	3	-	12.7	-	7.8	8	8		
		1	38.6	21.3	18.5	8.7	8.8	9		
	200 A at 18 V, 100% Duty Cycle	3	-	8.3	-	5.5	5.7	6		
		1	24.5	14.1	12	5.6	5.7	6		

IP Rating  
IP23 This equipment is designed for outdoor use