



# Dynasty<sup>®</sup> 280 Maxstar<sup>®</sup> 280

Powerful TIG Welding  
in Smaller Packages

# New Dynasty® 280 and Maxstar® 280 TIG Welders

## Everything you asked for — and more

You asked for welders with more power, more portability and more energy efficiency. Miller developed the new Dynasty 280 and Maxstar 280 TIG welders to meet those needs. Compared to similarly sized machines, the Dynasty 280 and Maxstar 280 deliver more power, welding metal up to 3/8-inch thick — yet they are significantly lighter, more portable and use less energy than machines with similar power output capabilities.



### Dynasty® 280 / 280 DX

**Capabilities:** AC/DC TIG/Stick – Aluminum, Magnesium, Carbon Steel, Stainless Steel and Exotic Alloys

**Material Thickness:** 0.004 in. – 3/8 in.

**Weight:** 52 lb.

The Dynasty 280 provides operator-friendly, menu-driven features and is perfect for industrial manufacturing applications and heavy fabrication. For maximum capability — such as the high demands of precision fabrication — the Dynasty 280 DX offers full AC features, including advanced waveforms and wide ranges of balance and frequency.

**Ideal for:**

- Pipe, tube, anodized aluminum
- Aluminum ship repair
- Aerospace industry



### Maxstar® 280 / 280 DX

**Capabilities:** DC TIG/Stick – Carbon Steel, Stainless Steel and Exotic Alloys

**Material Thickness:** 0.004 in. – 3/8 in.

**Weight:** 47 lb.

Ideal for industrial applications, construction and heavy fabrication, the Maxstar 280 provides operator-friendly, menu-driven features. The full-featured Maxstar 280 DX addresses the demands of precision fabrication, adding extended ranges for maximum capability.

**Ideal for:**

- Ship construction and repairs
- Food, beverage, dairy industries
- Petrochemical, aerospace industries



Allows hookup to either single-phase or three-phase electrical input from 208 –

575 V with no manual linking, providing convenience in any job setting. An ideal solution for dirty or unreliable input power.

**Blue Lightning™ high-frequency arc starter** — Provides more consistent non-contact starts and greater reliability than traditional high-frequency arc starters.

**Fan-On-Demand™ cooling system** — Only operates when needed, reducing noise, energy use and contaminants pulled through the machine.

## Portable

Dynasty 280 and Maxstar 280 weigh in at just 52 and 47 pounds, respectively. With dual carry handles and a carrying strap, both machines give operators multiple options for comfortable transport to any jobsite or location.



## Flexible

A memory card port is included on all Dynasty 280 and Maxstar 280 welders, allowing software upgrades to be downloaded and product features to be purchased from [MillerWelds.com/tigsoftware](http://MillerWelds.com/tigsoftware). This not only allows quick upgrades when software is released, but also allows owners to maximize their budgets, purchasing only the features they need.

## Energy efficient



Dynasty 280 and Maxstar 280 welders draw significantly less electrical power than traditional welders with similar capabilities — less than half the power in some applications. This power efficiency can lower utility bills and give owners the flexibility to add machines without adding costly electrical infrastructure.



## Easy to use

Dynasty 280 and Maxstar 280 base models provide an operator-friendly interface for intuitive operation, while DX models include quick access to advanced features for expert users. On all models, exclusive Pro-Set™ technology eliminates guesswork with pre-set welding parameters designed by Miller weld engineers for speed, convenience, confidence — and excellent results. Welders also will appreciate the control panel's LED illuminated standby/power switch, which clearly indicates whether the machine is unplugged or turned off at its main switch (no LED), turned on at its main switch but in standby mode (red LED) or energized and ready to weld (green LED).



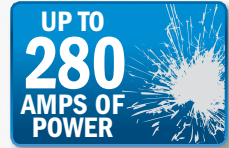
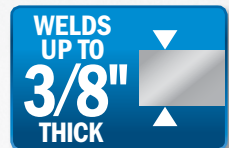
Dynasty® 280



Dynasty® 280 DX

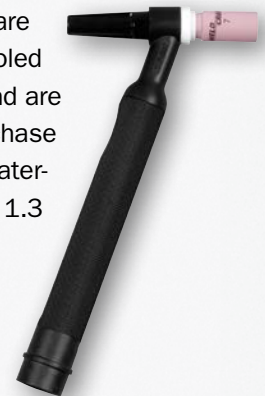
## Capable

Dynasty 280 and Maxstar 280 can weld metal up to 3/8-inch thick, delivering up to 280 amps of output power to handle big jobs. That power comes with the smooth, stable arc you expect from Miller — plus advanced technology to improve results, such as a pulse feature, which can reduce heat input, increase travel speeds and improve arc directional control. The Dynasty 280 includes adjustments for AC balance, waveforms and frequency, for precise arc tailoring on aluminum welds.



## System solutions

Dynasty 280 and Maxstar 280 are designed to support both air-cooled and water-cooled TIG torches and are available with the option to purchase a Weldcraft® W-280 (WP-280) water-cooled torch and the Coolmate™ 1.3 coolant reservoir for a complete water-cooled system solution. The advanced new W-280 torch uses Super Cool™ technology to provide additional surface area to increase cooling efficiency and capacity, while the Coolmate reservoir uses an efficient fin-and-tube heat exchanger to provide a maximum cooling capacity of 13,000 Btu/hr.



## More Power and Portability. Less Energy Use and Weight.

Dynasty® 280 and Maxstar® 280 machines represent a significant milestone in welding technology. While the capabilities of the Dynasty 280 and Maxstar 280 are comparable to the Syncrowave® 250, the newer machines are significantly smaller and lighter, while drawing less electrical power.



	Syncrowave® 250	Dynasty® 280 (280 DX)	Maxstar® 280 (280 DX)
<b>Input Power (volts)</b>	Single phase (230/460/575) Manual linking required	Single phase or three phase (208-575) Auto-Line™ Power Management Technology No manual linking required	Single phase or three phase (208-575) Auto-Line™ Power Management Technology No manual linking required
<b>Welding Amp Range</b>	3 – 310	1 – 280	1 – 280
<b>Material Thickness (inches)</b>	.012 – 1/2 steel .015 – 3/8 aluminum	.004 – 3/8 steel .012 – 3/8 aluminum	.004 – 3/8 steel
<b>Amperage Draw @ 230 V, max. output</b>	62	< 25	< 25
<b>Size (inches)</b>	33.25H x 22.5W x 25D	13.6H x 8.6W x 22.4D	13.6H x 8.6W x 22.4D
<b>Weight (pounds)</b>	378	52	47
<b>AC Balance</b>	45% – 68%	60% – 80% (DX: 50% – 99%)	N/A
<b>AC Frequency</b>	60 Hz	70 – 150 Hz (DX: 20 – 400 Hz)	N/A
<b>Pulse</b>	Off – 10 PPS	Off – 250 PPS (DX: Off – 500 PPS)	Off – 250 PPS (DX: Off – 500 PPS)
<b>Pro-Set™</b>	No	Yes: balance, AC frequency, DIG, PPS (DX: Peak time, background amperage)	Yes: balance, AC frequency, DIG, PPS (DX: Peak time, background amperage)
<b>Expandable</b>	No	Yes: memory card	Yes: memory card

*Learn more about Dynasty 280 and Maxstar 280 TIG Welders — and what they can do for you.*

**MillerWelds.com/dynasty280**  
**MillerWelds.com/maxstar280**

