



# 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 more power, more portability and more energy efficiency — and Miller has delivered with the new Dynasty 280 and Maxstar 280 TIG welders. Ideal for industrial manufacturing applications and heavy fabrication, both welders offer more power than similarly sized machines and the ability to weld metal up to 3/8-inch thick.

The Maxstar 280 is also built to take on tough construction jobs, while the Dynasty 280 DX now features Insight welding information management to monitor quality and track productivity. Plus, both welders are significantly lighter, more portable and more energy efficient than machines with comparable power output capabilities.



### Dynasty® 280/280 DX/280 DX with Insight

**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.

**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:**

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

### Auto-Line™ power management technology

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.
- Dual carry handles and a carrying strap give operators multiple options for comfortable transport to any jobsite or location.



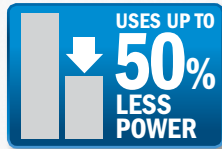
## Flexible

- Card port is included, allowing software upgrades to be downloaded and product features to be purchased from MillerWelds.com/tigsoftware.
- Allows quick upgrades when software is released and owners to maximize their budgets, purchasing only the features they need.

## Energy efficient



- Draws significantly less electrical power than traditional welders with similar capabilities — less than half the power in some applications.
- Can lower utility bills and give owners the flexibility to add machines without adding costly electrical infrastructure.



## Easy to use

- Base models provide an operator-friendly interface for intuitive operation.
- 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 for speed, convenience, confidence — and excellent results.
- The control panel's LED illuminated standby/power switch indicates whether the machine is unplugged or turned off at its main switch, turned on at its main switch but in standby mode, or energized and ready to weld.



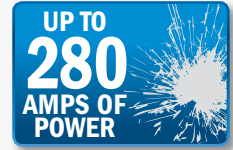
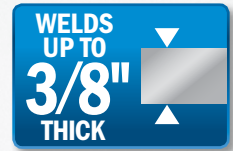
Dynasty® 280



Dynasty® 280 DX

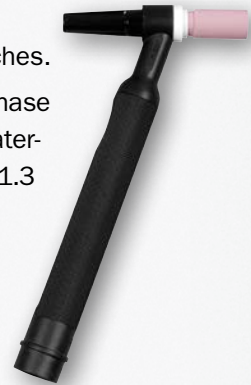
## Capable

- Can weld metal up to 3/8-inch thick, delivering up to 280 amps of output power to handle big jobs.
- 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.
- Includes adjustments for AC balance, waveforms and frequency, for precise arc tailoring on aluminum welds.



## System solutions

- Designed to support both air-cooled and water-cooled TIG torches.
- 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.
  - The Coolmate™ reservoir uses an efficient fin-and-tube heat exchanger to provide a maximum cooling capacity of 13,000 Btu/hr.



## Dynasty® 280 DX with Insight

- Supports weld quality, records and maintains weld data, and tracks productivity.
- Insight Core™ (standard) is a simplified, Internet-based industrial welding information management solution that monitors and reports welding activity for basic productivity and quality metrics.
- Insight Centerpoint™ (optional) is an advanced solution that drives productivity and supports weld quality by providing real-time weld operator feedback and machine control.

***Insight***

## 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/ 280 DX with Insight	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>	0.012 – 1/2 steel 0.015 – 3/8 aluminum	0.004 – 3/8 steel 0.012 – 3/8 aluminum	0.004 – 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
<b>Insight</b>	No	Yes: Insight Core™ (standard on Dynasty 280 DX w/ Insight model) Yes: Insight Centerpoint™ (optional upgrade)	No

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

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

