

More Power, Better Performance, and More Efficient TIG Welds



Dynasty[®] 350 and 700

AC/DC TIG Welding Power Source

Superior Arc Control – More Power!

- Improved arc performance — highest quality achievable TIG welds
- Increased output 5–350 amps with the NEW Dynasty 350 (50 amps more than previous model) and 5–700 amps output with the Dynasty 700
- Improved duty cycle — 300 and 600 amps at 60%
- Increased power efficiency by 9%
- Convenient input power with Auto-Line™ technology
- TIGRunner package available with new cooling system designed for ultra reliability with extra cooling capacity

Achieve the Highest Quality TIG welds

The new Dynasty 350 now matches the superior arc quality of the Dynasty 700. It has the addition of four waveforms from which to choose for easier aluminum welding and Independent AC Amperage Controls that allow the EN and EP amperage values to be set independently. This allows for a pointed tungsten providing more precision, deeper penetration, and faster travel speeds. The weld performance of the Dynasty 350 and 700 are unbeatable by any other TIG machine, especially for aluminum applications.

More Power for Welding Thicker Materials

With 50 more amps of power on the Dynasty 350, the new machine can weld up to 3/4 in thick aluminum. The extra power also means your customer's will weld faster — no more waiting around to establish a puddle — just start welding.

Weld More Efficiently

The unique Dynasty 350 and 700 will increase your customer's production. The additional amperage allows the operator to start welding right away because the puddle is immediately established and with a 60% duty cycle at 300 and 600 amps, respectively (compared to 15% on the previous Dynasty 300) means your customer's can weld longer. A 9% improvement in power efficiency saves money and can provide a positive ROI.

Whether you need ultimate TIG welding performance for aluminum and stainless steel, power to weld thicker metals, a significant increase in production efficiency, or all of the above, the Dynasty 350 and 700 from Miller provide you the optimal choice. The significant decrease in operation costs provides an excellent ROI for any customer.



Auto-Line Flexibility

The Dynasty 350 and 700 come standard with Miller's convenient Auto-Line technology, which allows the machines to be connected to any primary input voltage anywhere in the world while using half the power of a conventional transformer machine.

TIGRunner™ Package

The TIGRunner packages feature a fully assembled system that includes a cart with ample storage, the Dynasty and a new 3.5 gallon cooling system that is powered via the main power switch of the Dynasty. The coolant system also features a large fill cap that is easy to fill, external filter to stop foreign objects from clogging the torch, coolant hoses designed for high temperature applications, and check valves that stay closed if the torch is not connected, to prevent accidental spills. See ordering information for models that include torch kits.

The Dynasty 350 and 700 are the right choice for:

- Precision Metal Fabrication
- Aerospace
- Heavy Fabrication
- Aluminum Ship Repair
- Pipe and Tube Fabrication
- Anodized Aluminum Fabrication

Visit MillerWelds.com

MADE IN **USA**
APPLETON, WI **USA**

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"We work mainly on aluminum with low amperage, around 15–20 amps, and at our company, weld quality is essential. We need the weld to be right the first time — we can't go back. With the new Dynasty 350 we get excellent arc starts and have seen a much more stable arc with significantly less arc wandering than our previous TIG machines."

— David Pierce,
Weld Specialist at Honeywell

Q&A:

Is weld quality essential for your business?

Solution: The innovative Dynasty 350 and 700 provide the highest achievable TIG welds in the world. When you get one chance to make a weld, you can count on the Dynasty 350 and 700 to start immediately and provide the ultimate arc control.

Do you need to increase your welding productivity?

Solution: The Dynasty 350 and 700 can decrease your production time because you can start welding immediately — no more waiting for the weld puddle to establish. Also, an increased duty cycle means you can weld longer with less breaks. These benefits can mean significant profits for your bottom line. And, with more power, you can take on bigger jobs while still maintaining your production efficiency.

Would you like to decrease your weld operating costs?

Solution: The Dynasty 350 and 700 will improve your power efficiency by 9%. Annually, this will provide significant cost savings. The additional wave shaping capabilities provide for easier aluminum welding and independent amperage controls provide for more precise and faster welds — which means no more re-work and a huge reduction in costs.

Dynasty® 350 Key Comparisons

	Miller Dynasty 350	Lincoln Precision TIG 375	Thermal Arc ArcMaster 300 AC/DC	Fronius Magic Wave 3000	Esab Heliarc 352 AC/DC	The Power of Blue® Payoff
Maximum Aluminum Material Thickness	3/4 in	1/2 in	3/8 in	3/8 in	3/8 in	The advanced control technology of the Dynasty 350 provides better utilization of the welding output allowing thicknesses up to 3/4 inch and greater to be welded with the Dynasty 350 along with lower power consumption.
Waveforms	Four choices: Triangular Wave, Sinewave, Soft Squarewave, and Advanced Squarewave	Classified as Soft Squarewave	Classified as Soft Squarewave	Three choices: Triangular Wave, Sinewave, and Advanced Squarewave	Classified as Soft Squarewave	Triangular Wave: Quick puddle formation, reduced heat input, best for thin Aluminum; Sinewave: for customers that prefer a traditional arc that is soft and quiet; Soft Squarewave: soft arc with maximum puddle control and good wetting action; Advanced Squarewave: provides additional penetration over soft square and better oxide removal characteristics.
Independent Amp. Control	Yes	Not available	Not available	Not available	Not available	Deeper penetration and faster travel speeds can be achieved when utilizing the independent amperage control feature.
Auto-Line™ (Power Management)	Yes	Not available	Not available	Not available	Not available	Auto-Line allows for any input voltage hookup (208–575 V) 50/60 Hz, single or three phase with no manual linking, providing convenience in any job setting. Ideal solution for dirty or unreliable power.
Auto-Postflow	Yes	Not available	Not available	Not available	Not available	Automatically calculates the length of postflow time based on amperage setting. Saves gas and improves weld quality.

For more detailed product information and package numbers, see literature #AD/5.0.

2/07

Power Source

Dynasty 350
Dynasty 350 TIGRunner
Dynasty 350 TIGRunner w/Torch
Dynasty 700
Dynasty 700 TIGRunner
Dynasty 700 TIGRunner w/Torch

Stock No.

#907 204
#907 204-01-1
#951 062
#907 101
#907 101-01-1
#951 064

Description

Basic Model (Auto-Line, 208–575 V)
TIGRunner Package (Auto-Line, 208–575 V)
TIGRunner w/Torch Kit (Auto-Line 208-575 V)
Basic Model (Auto-Line, 208–575 V)
TIGRunner Package (Auto-Line, 208–575 V)
TIGRunner w/Torch Kit (Auto-Line 208-575V)



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