

Dynasty® 400 and 800

TIG/Stick Welding
Power Source



Quick Specs



Industrial Applications

Precision fabrication
Heavy fabrication
Pipe and tube fabrication
Aerospace
Aluminum ship repair
Anodized aluminum fabrication

Processes

TIG (GTAW)
Pulsed TIG (GTAW-P)
Stick (SMAW)
Air carbon arc (CAC-A)
400: 1/4 in. maximum
800: 3/8 in. maximum

Input Power 208–575 V, 3- or 1-phase power

Amperage Range **400:** 3–400 A
800: 5–800 A

Rated Output **400:** 300 A at 32 V, 60% duty cycle
800: 600 A at 44 V, 60% duty cycle

Net Weight **400:** 134 lb. (61 kg)
800: 198 lb. (90 kg)



Allows for any input voltage hookup (208–575 V) with no manual linking, providing convenience in any job setting. Ideal solution for dirty or unreliable power.

Meter calibration allows digital meters to be calibrated for certification.

Cooler Power Supply (CPS) is an integrated 120-volt dedicated-use receptacle for the Coolmate™ 3.5.

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.

Lift-Arc™ provides AC or DC arc initiation without the use of high frequency.

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.

Program memory features nine independent program memories that maintain/save your parameters.

Auto-postflow adjusts the length of postflow time based on the amperage setting, shielding your tungsten and eliminating the need to set the postflow time.

New!



Dynasty 400 machine only

Dynasty 400 Wireless Complete



AC TIG Features

Independent amplitude/amperage control allows EP and EN amperages to be set independently to precisely control heat input to the work and electrode.

Balance control provides adjustable oxide removal which is essential for creating the highest quality aluminum welds. These models provide 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.

Pulse. Pulsing can increase puddle agitation, arc stability and travel speeds while reducing heat input and distortion. These models provide extended ranges.

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 additional stability when stick welding in AC for smoother welds.



Power source is warranted for three years, parts and labor.



Miller Electric Mfg. Co.
An ITW Welding Company
1635 West Spencer Street
P.O. Box 1079
Appleton, WI 54912-1079 USA

Equipment Sales US and Canada
Phone: 866-931-9730
FAX: 800-637-2315
International Phone: 920-735-4554
International FAX: 920-735-4125

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XMT® 350 Series

**Multiprocess Welding
Power Source** 

Quick Specs

Heavy Industrial Applications

Construction
Shipbuilding
Railroad
Truck/trailer manufacturing
Fabrication
Repair shops
Rental fleets
Power generation plants

Processes

MIG (GMAW)/Pulsed MIG (GMAW-P)*
Stick (SMAW)
TIG (GTAW)
Flux-cored (FCAW)
Air carbon arc cutting and gouging (CAC-A)
Rated: 1/4-inch carbons
Capable: 5/16-inch carbons

**Available on select models.*

Input Power Auto-Line™, 208–575 V,
requires 3- or 1-phase power

Output Range 10–38 V, 15–425 A

Net Weight 80 lb. (36.3 kg)

Aux. Power (optional) 120 V, 10 amps

Portability and excellent arc performance make the XMT family the most popular in the industry.

With multiprocess capabilities and features like Auto-Line, the XMT 350 is portable and versatile for applications from jobsites to the factory floor.



XMT 350 CC/CV shown



Input power management
for portability



Lightweight and portable



Best multiprocess
capabilities



Power source is warranted for three years, parts and labor.
Original main power rectified parts are warranted for five years.



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Big Blue® 800 Series

**Diesel Engine-Driven
Welder/AC Generator**



Quick Specs



Heavy Industrial Applications

Pipe welding
Maintenance and repair rigs
Mechanical contractor
Construction
Mining maintenance
Railroad maintenance

Processes

Stick (SMAW)
MIG (GMAW)
Flux-cored (FCAW)
RMD®*
Pulsed MIG (GMAW-P)*
DC TIG (GTAW)
Submerged arc (SAW)
Stud welding—1/2 inch (13 mm)
Air carbon arc (CAC-A)
1/2-inch (13 mm) carbons

Output Range

Single weld mode CC: 40–800 A, CV: 14–50 V
Dual weld mode CC: 20–400 A, CV: 14–50 V

Generator Output Rated at 104°F (40°C)

3-phase 27,000 watts peak, 20,000 watts continuous
1-phase 15,000 watts peak, 12,000 watts continuous

Accu-Rated™—Not Inflated Generator Power

*With optional ArcReach Smart Feeder.

The most powerful lineup of diesel welder/generators in the industry.

All offer robust output for welding and power generation, and are ideal for dual-operator applications on labor intensive jobsites, or jobsites with limited space.

More power. 800 amps of weld power and 27,000 watts of peak generator power.

Multi-arc welding. One dependable engine—two independent arcs with up to 400 amps each. Or plug in additional inverters for a true multioperator work platform! Example: Two additional XMT multiprocess machines equals four operators, up to 200 amps each. Premium-quality arcs allow operators to work independently with no arc interaction. Multioperator welding has never been easier or more versatile.



Heavy-duty low-speed T4F and T4i industrial diesel engines.

The cleanest, greenest diesel power available. Utilizes diesel oxidation catalyst (DOC) technology in T4F models to keep the air clean with **NO** exhaust aftertreatment maintenance.

Increased efficiency. More arcs and better fuel economy equal increased profits for your business. Estimated savings are 34 percent with a dual-operator unit versus two single-operator units.



Remote control of the power source without a cord. See page 3.

USA models shown are



Big Blue® 800 Duo Pro

Multioperator work platform delivers two premium arcs (up to 400 amps each) allowing welding operators to work independently with no arc interaction.

Big Blue® 800 Duo Air Pak™

All-in-one welder/generator eliminates the need for an auxiliary air compressor. The industrial Ingersoll Rand screw-type air compressor is ideal for gouging and running pneumatic tools.



Welder/generator is warranted by Miller for three years, parts and labor.
Engine is warranted separately by engine manufacturer.



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MillerWelds.com



Big Blue® 400 Pro

**Diesel Engine-Driven
Welder/AC Generator** 

Quick Specs



Heavy Industrial Applications

Mechanical contractors
Structural steelwork
Fabrication
Maintenance
Repair
Rental
Construction
Pipe welding

Processes

Stick (SMAW)
MIG (GMAW)*
Flux-cored (FCAW)*
RMD®**
Pulsed MIG (GMAW-P)**
DC TIG (GTAW)
Air carbon arc (CAC-A)
Rated: 3/16-inch (4.8 mm) carbons
Capable: 1/4-inch (6.4 mm) carbons

Output Range DC stick 20–400 A
MIG/flux-cored 14–40 V
DC TIG 20–400 A

Generator Output Rated at 104°F (40°C)
12,000 watts peak, 10,000 watts continuous

**Accu-Rated™ – Not Inflated
Generator Power**

*With wire feeder.

**ArcReach models only with ArcReach Smart Feeder.

The professional welder's choice —

designed with the professional in mind, the Big Blue 400 Pro is the best for ease of use, reliability and fuel economy.



Kubota V1505 four-cylinder diesel.



Mitsubishi S4L2 four-cylinder diesel.



CATERPILLAR C1.5
three-cylinder diesel and
NEW! C1.5T turbo-charged
three-cylinder diesel.

Heavy-duty low-speed T4F and
T4i industrial diesel engines
designed to operate over
10,000 hours before the first basic
overhaul. Backed by worldwide
support and service.



Remote control of the power source
without a cord. See pages 2 and 3.



Optimized arc control for stick
welding applications. See page 3.



USA model shown is



Built to last in harsh
industrial environments



New standard for productivity
and weld quality



International models available



Easy to add capabilities



Welder/generator is warranted for three years, parts and labor.
Engine is warranted separately by engine manufacturer.



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PipeWorx Welding System

Multiprocess Pipe Welding Systems



Quick Specs

Pipe Welding Fabrication

Process piping
Refinery
Petrochemical
Power
HVAC and water pipe

Processes

Stick (SMAW)
DC TIG (GTAW)
MIG (GMAW)
RMD®
Pulsed MIG (GMAW-P)
Flux-cored (FCAW)

Rated Output 400 A at 36 VDC, 100% duty cycle

Output Range Stick: 40–400 A
DC TIG: 10–350 A
MIG/Flux-cored: 10–44 V, 400 A

Net Weight Power source: 225 lb. (102 kg)
Single feeder: 65 lb. (29.5 kg)
Dual feeder: 90 lb. (41 kg)
Cooler: 133 lb. (60 kg)

Designed exclusively for pipe fabrication shops.

Simple process setup

- Clearly labeled controls in easy-to-understand welder terminology.
- Requires just a few basic steps to set up a new weld process, resulting in less training time and minimizing errors from incorrect setups.
- The front panel was designed by welders for welders. Only backlit controls are adjustable to eliminate confusion.
- Memory feature stores four programs for each selection: stick, DC TIG, and MIG (left and right side of feeder). Beneficial when using multiple procedures, multiple process parameters or multiple welders and eliminates the need to remember parameters.

Quick process changeover

- No need to manually switch polarity or cables and hoses between processes. Simply push a process selection button to choose a welding process. PipeWorx 'Quick-Select' technology automatically selects the welding process, the correct polarity, cable outputs and welding parameters.
- Quick process changeover eliminates set-up time for switching cables and gas hoses. Also, reduces the risk of weld reworks due to incorrect cable connection.



Accu-Power™ PipeWorx memory card (optional) displays instantaneous power during welding to meet the new ASME requirement for calculating heat input on complex waveform processes (RMD and pulsed MIG). *See page 3 for more information.*

Multiprocess machine

- Weld processes are optimized to deliver superior arc performance and stability specifically for root pass, fill and cap pipe welding.
- Includes conventional stick, DC TIG (Lift-Arc™ or HF start), flux-cored and MIG welding processes.
- Also features the advanced RMD and pulsed MIG processes that deliver superior quality welds, increase productivity, and reduce rework and training.

Streamlined system

- Wind Tunnel Technology™ and Fan-On-Demand™ provide system protection in the dusty shop environment.
- Innovative cable and gun storage manages clutter for a cleaner, organized weld-cell area. Cables remain connected to the power source and do not need to be switched for the different welding processes.
- All system components have been selected to meet the needs of a pipe fabrication shop.

PipeWorx Welding System #951 381
shown with accessory kit #300 568.
(Filler metal and shielding gas sold separately.)



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