

Miller Industrial Engine Drives — Built Tough for Welding in a Tough World

When reliability is a must, Miller industrial engine drives are the premier choice.

Pro Series



PipePro™ 304

Quiet, compact, yet extremely powerful multiprocess diesel engine drive for the cross-country pipeliner and mechanical contractor.



PRO 300/PRO 300 D

Low-speed, compact diesel welder ideal for professional welders.

Heavy Duty



Big 40®
CC or CC/CV

Powered by CAT diesel engine with added power and more features; improved noise reduction at both idle and weld speed.



Big Blue® 400
CC or CC/CV

Heavy industrial machine designed for fleet owners; easy to maintain and always ready to weld.



Big Blue® 500
CC or CC/CV

Heavy industrial machine designed for fleet owners; easy to maintain and always ready to weld.

Super Duty



Big Blue® Turbo

High-altitude, high-output, multiprocess welder provides a superior arc.



Big Blue® Air Pak™

The complete package—a multiprocess welder/generator/air compressor/optional battery charger.



Miller Du-Op®

Dual-operator welding generator is two high-performance machines powered by one dependable engine.

See Miller's entire family of industrial engine drives at MillerWelds.com



MILLER INDUSTRIAL ENGINE DRIVES



BUILT TOUGH

for Welding in
a Tough World

From coastal areas where salty, humid air raises havoc on machinery...to deltas where temperatures exceed 100° F for days on end...to deserts where sand infiltrates every crevice, Miller's industrial engine drives perform in the harshest environments and most remote locations on earth.

If your welding machines don't work properly, or worse yet, go down altogether, they can cause losses of hundreds of dollars per hour. When you're in the middle of nowhere, there's not always a repair shop next door.

That's why Miller builds the most durable and reliable industrial engine drives available.

Miller industrial engine drives outperform competitive machines and provide the best service and parts support where it matters most—in the harshest real world conditions.

So when conditions get tough and other brands bite the dust, look to Miller industrial engine drives to keep performing.



What Makes Miller Industrial Engine Drives So **[TOUGH]**?



"Other machines would cut out when we gouged too long with them. With the Miller, I gouged hard all day in 98 degree heat and never had a shutdown when we were running 3/8-in carbons." When welding, "The Big Blue starts out hot, where I want it, and stays steady on its heat all day."

**Welder Tommy Langley,
Fluor Daniel/Chevron Oil Refinery**



"The PRO 300 worked year 'round and never caused any problems. We were amazed at the cold-weather starting. A machine that doesn't run means we have to work overtime... secondly, you don't want to have a crew standing around at \$200 an hour while someone tries to start the machine."

**Edward McNaughton,
Nordcap Steel Docks**

Every component in a Miller industrial engine drive is engineered and built to assure ultimate reliability in the most punishing conditions. And they are rigorously tested to the toughest real-world conditions to keep working in a tough world.

Ultimate Circuit Board Protection

No matter how well it's built, any machine can fail if its critical circuit boards are compromised. Miller makes two types of industrial engine drives, both of which ensure that no critical circuit boards are left vulnerable.

■ "CC" Stick and TIG Models

Miller's robust, efficient constant current (CC) industrial engine drives for Stick and TIG welding are designed with no circuit boards that are critical to the machine's operation. That means no boards can shut down the machine if they fail.

■ "CC/CV" Multiprocess Models

Miller's Multiprocess PRO 300 and Big Blue® models of industrial engine drives include circuit boards for superior arc control and welding versatility. These boards are protected by the Vault, a hermetically-sealed aluminum case that is impenetrable to dust, salt, and moisture.

Superior Circuit Board Design

Miller's critical circuit boards are engineered to carry *low power* and *low heat* to reduce thermal stress and minimize expansion and contraction. In contrast, our competitor's boards carry *high power* and *high heat*, making them more vulnerable to failure.



"The Vault" Makes Upgrading to Miller CC/CV Units Worry-Free

Concerns with circuit board reliability have resulted in some operators steering clear of CC/CV welder/generators—even though they offer a superior arc and multiple welding processes. Miller's circuit board reliability isn't a concern since all PRO 300 and Big Blue multiprocess industrial engine drives feature the Vault.

Created out of two aluminum halves sealed with silicone, as well as watertight harness connections, the Vault provides a clean circuit board environment, protecting the electronics—and controlling output—in heavy industrial applications. No other competitor protects their electronics with a sealed vault, leaving critical circuit boards exposed to harsh elements that can disrupt the machine's electronics, and therefore, its operation.

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Rigorous Testing for Tough, Real-World Conditions

To prove our machines go to the limit, Miller industrial engine drives are put to the test in very extreme environmental conditions.

- **Airborne Dust and Sand**—Critical components are exposed to abusive airborne particles in a special testing chamber for weeks, helping make sure they'll operate while facing extreme levels of dirt, dust or sand on the job site.
- **Humidity and Corrosion**—Inside Miller's Houston testing room, critical components are subjected to extended moisture and corrosive salt exposure to ensure they'll run even when exposed to humid climates, corrosive coastal environments, and driving rain.
- **Temperature Extremes**—Miller's industrial engine drives are tested to ensure performance in scorching heat. All Miller engine driven machines are weld rated at 104° F, but actual tests are conducted up to 122° F to assure peak performance.
- **Jobsite/Over-the-Road Abuse**—Miller industrial engine drives are shaken for hours on transportation bed simulators, subjected to severe vibration, and test-dropped and jerked to ensure they'll withstand the stresses that can shut down competitive machines.
- **Continuous Operation**—Miller's industrial engine drives run day and night, in all weather conditions, to assure they'll perform without interruption in the field.



Why Industrial Engine Drive Customers Choose Miller

The ultimate test of Miller's reliability is how it performs in the field. The quotes on the left provide a glimpse of how Miller industrial engine drives perform for customers. Read the full stories, and many others demonstrating Miller's superior reliability, at MillerWelds.com.

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Why Service Techs Prefer Miller Industrial Engine Drives

In a blind survey, more than 150 service technicians who service both Miller and the competition said they prefer Miller—by significant margins—in every reliability category.

The Most Reliable Welding Machines in the Industry
Service techs prefer Miller **4 to 1** for reliability

The Easiest Machines in the Industry to Repair
Service techs prefer Miller **6 to 1** for ease of repairs

The Best Parts Support in the Industry
Service techs prefer Miller **10 to 1** for parts delivery

The Best Technical Support in the Industry
Service techs prefer Miller **10 to 1** for service tech availability and responsiveness, and **6 to 1** for service tech capability

The Best Warranty Support in the Industry
Service techs prefer Miller **8 to 1** for warranty support

The Lowest Repair Cost in the Industry
Service techs prefer Miller **3 to 1** for lowest repair cost

