



# Blue Outside Means **TOUGH** Inside.

Gas Twin Cylinder Engine Drive Products from Miller Electric Mfg. Co.



Take an Interactive Tour  
Under the Hood of a Miller

[MillerWelds.com/Tough](http://MillerWelds.com/Tough)

**Strength. Reliability. Heavy-Duty Craftsmanship**  
**INSIDE EVERY MILLER.**

# Blue Outside Means **TOUGH** Inside.

**Strength. Reliability.**  
**Heavy duty craftsmanship...Inside every Miller.**

When you look inside a Miller twin cylinder engine drive, you'll see nothing but the strongest materials and the simplest designs. We encourage customers to look inside a Miller, take off the hood and compare it to other engine drives. We guarantee no other machine is built as tough as a Miller.

And, Miller offers the most complete line of twin cylinder engine drives. A machine to match your application and your budget - blue means tough.

- **Bobcat™ 225 NT**
- **Bobcat™ 250 NT**
- **Trailblazer® DC**
- **Trailblazer® 301 G**

This guide is designed to help you choose the right machine for your application and your budget.



# The Bobcat™ Series – The Industry's #1 Workhorse

- **Bobcat™ 225 NT**
- **Bobcat™ 250 NT**

We don't just say it's tough, we prove it is the toughest. If you want a machine that will last a lifetime, never give you any hassles and weld whatever you want, choose a Bobcat. When you look inside a Miller Bobcat, the world's favorite workhorse, this is what you'll find:

## **Built Tough**

The Bobcat series features a "bullet proof" tapped reactor design. This eliminates the need for complicated circuit boards and makes it more reliable. You can count on the Bobcat in dirty, wet and corrosive field conditions. When a Bobcat rides in the back of your pick-up, you know country roads or tough job sites will never rattle it.

## **Bobcat 225 NT – Cost Effective Performer**

A reliable and cost-effective multiple process machine perfect for farmers, ranchers, maintenance and structural work. Choose this machine:

- **For AC/DC Stick and general purpose FCAW, TIG and MIG.** Arc tests prove that it beats the competition in most applications.
- When you need generator power to keep your operation running smoothly. It delivers **10,000 watts of 120/240 VAC power.**

Note: A Bobcat 3-Phase model is also available that provides **11,000 watts of 3-phase and 10,000 watts of 1-phase generator power.**



## **Bobcat 250 NT – No Limits, No Compromises**

The toughest, most versatile engine drive with the most generator power, perfect for fabrication, construction, maintenance and farm/ranch work. Choose the Bobcat 250 NT for:

- **10,000 watts** of generator power and for the highest power while welding compared to the competition.
- **More power for Flux Cored** wires (up to 5/64") or to run longer leads than competitive machines without worrying about voltage drop.
- **Easier fine tuning and improved Stick results** – 6010 and 7018 arc quality meets or exceeds the competition in all diameters!



# Choose The Perfect Gas Eng

APPLICATION PERFORMANCE		Bobcat™ 225 NT	Bobcat™ 250 NT
<b>Overall Performance</b>		Good	Better
<b>Why Buy This Machine?</b>		A cost-effective multi-process machine, most used for Stick, but also capable of Flux Cored, MIG and TIG. Great for farm, ranch, maintenance and structural work.	Highly versatile. Stick, MIG, Flux Cored, TIG. Great for structural maintenance, ranch work.
WELD PERFORMANCE			
<b>Amperage/Voltage Range</b> (DC processes)		40 – 210 A 17 – 28 V	40 – 210 A 17 – 28 V
<b>Rated Output at 104° F (40° C)</b> CC/AC Stick/TIG CC/DC Stick/TIG CV/DC MIG/FCAW		100% Duty Cycle 225 A at 25 V 210 A at 25 V 200 A at 20 V	100% Duty Cycle 250 A at 25 V 250 A at 25 V 250 A at 20 V
<b>Stick</b> — 6010 Electrode		Very Good/Excellent	Very Good
<b>Stick</b> — 7018 Electrode		Good	Very Good
<b>Flux Cored</b> — General Purpose		Good	Very Good
<b>Flux Cored</b> — Nickel Alloy		Not Recommended	Not Recommended
<b>MIG</b> — Short Arc/Spray		Fair/Good	Fair/Good
<b>TIG</b> — DC		Excellent	Excellent
<b>TIG</b> — AC (aluminum)		Non-critical only	Non-critical only
GENERATOR PERFORMANCE			
<b>Generator Power at 104° F (40° C)</b> Peak Watts Continuous Watts		10,000 9,500	10,000 9,500
<b>Simultaneous Generator and Welding Capabilities</b>		Good — with voltage control set near maximum	Better — with voltage control set near maximum
PRICE			
<b>2003 List Price (U.S. \$)</b> (actual prices set by local distributor)		\$3,357	\$3,480



# Line Drive Solution

at™ 250 NT

	Best	Unbeatable
Weld output for and most Flux applications with generator power. for fabrication, con- struction, structural, maintenance, farm and .	The professional's choice for superior arc perform- ance in all DC processes. Great for fabrication, con- struction, structural, maintenance, sheet metal and process piping.	The professional's choice for superior arc perform- ance in all processes. Great for fabrication, con- struction, structural, maintenance, sheet metal, process piping and TIG aluminum.
250 A	20–300 A	20–300 A
28 V	10–33 V	10–33 V
% Duty Cycle	100% Duty Cycle	100% Duty Cycle
A at 25 V	—	200 A at 25 V (60%)
A at 25 V	280 A at 25 V	280 A at 25 V
A at 28 V	300 A at 25 V	300 A at 25 V
Good/Excellent	Excellent	Excellent
Good	Excellent	Excellent
Good	Excellent	Excellent
Recommended	Excellent	Excellent
Good	Excellent	Excellent
Excellent	Excellent (remote capability standard with 14-pin hook-up)	Excellent (remote capability standard with 14-pin hook-up)
critical only	N/A	Excellent
10,000	10,000	10,000
9,500	9,500	9,500
— easier to fine arc with voltage control near maximum	Excellent—generator power is independent of rheostat setting	Excellent—generator power is independent of rheostat setting
\$3,877	\$3,877	\$4,177

# Trailblazer® Series

## Built for Performance

- **Trailblazer® 301 G**
- **Trailblazer® DC**

If you demand excellence, then join the ranks of professional welders who count on a Trailblazer. Both machines offer a flawless arc for multi-process, code quality work and the industry's strongest generator power while welding. The Trailblazer 301 G also has an added AC output for excellent TIG aluminum welding.

## Smoothest, Most Stable Arcs

The Trailblazer's legendary **four-pole rotor and 3-phase weld output** produces the smoothest, most stable arc in its class. Trailblazers are the choice for:

- **More “Dig” to enhance 6010 pipe welding.** Smooth 7018 performance and arc starts in all positions.
- **Superior MIG and Flux Cored** performance with any wire.
- **Excellent AC and DC TIG arc performance** – better than any other engine drive in the industry.

## Shift to Idle & Save

The Trailblazer incorporates an Engine Save Start feature that shifts the engine from run speed to idle speed 3 - 4 seconds after start-up to decrease fuel consumption, extend engine life and reduce noise. An automatic idle slows engine speed to save fuel and reduce noise while not welding.



## Two Generators . . . No Interference

- **Separate weld and power generators** means no interaction between grinders, power tools, etc. and the welding arc. Also, strong power is available while welding.

Professionals with a Trailblazer get more work done because it features two generators, one for welding and one for generating power. Under floodlights, one operator can weld with a 5/32" rod while another grinds, drills or saws. The competition is in the dark when it comes to this type of productivity.

Amps Weld Current	Watts Total Power Available	120 V Receptacle Amps	240 V Receptacle Amps
0	10,000	84	42
100	8,000	70	35
150	6,700	60	30
200	5,200	46	23
300	1,000	10	5

The Trailblazer gives you more simultaneous welding and generator power than any other twin cylinder engine drive.





# **Blue Outside Means **TOUGH** Inside.**

Buying an engine drive is a major decision. Choose a machine that will last a lifetime, not a season. Choose a machine that will provide the most value for your money, and choose a machine that welds the best.

Choose a Miller because:

- Only Miller has a solid stator barrel completely enclosing and protecting its generator from the harshest environments. The enclosed barrel also provides proper airflow for maximum cooling so your internal components will run better and perform longer.
- Only Miller's machines are tested at 104° F, nearly 20 hotter than its competitors. Miller machines are shocked with excessive voltages, baked and frozen, drenched with water and chemicals, sprayed with salt, radiated with electromagnetic charges, power dropped and shaken to ensure they are the toughest machines in the world.

You'll need to de-rate competitive machines by at least 5% if you want a true comparison, as they only test at 86° F.

- Only Miller provides the easiest to maintain equipment: easy to access oil, fuel and air filters, slide out battery and toolless Fastex™ oil drain system.
- Only Miller is ranked the most reliable and easiest to service by welding equipment service personnel.

**For a gas engine drive you can rely on, choose a Miller.**



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**MillerWelds.com/Tough**

For detailed specification sheets or to locate your  
nearest Miller distributor, visit:

**www.MillerWelds.com**

or call

**1-800-4-A-Miller (1-800-426-4553)**



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