

# Bobcat™ 3 Phase

Gas Engine-Driven Welder 

## Quick Specs

### Applications

#### Auxiliary power for:

- Farm/ranch tools
- Pivot irrigation systems
- Pumps
- Conveyors

#### Welding:

- Farm equipment repair
- General maintenance
- Fabrication

### Processes

- Stick (SMAW)
- MIG (GMAW)\*
- Flux-cored (FCAW)\*
- DC TIG (GTAW)
- Non-critical AC TIG (GTAW)
- Air plasma cutting and gouging with optional Spectrum® models

\*With wire feeder.

### Output Range

- Stick/TIG 40–225 A
- MIG/flux-cored (CV) 19–28 V

### Auxiliary Power Output Rated at 104°F (40°C)

- 3-phase: 11,000 watts peak, 10,000 watts continuous
- 1-phase: 11,000 watts peak, 9,500 watts continuous

**Net Weight** 495 lb. (225 kg)

**For farm and ranch owners in need of single- and three-phase power. Designed to run 480-volt three-phase pivot irrigation systems and other farm/ranch equipment.**

**Designed for reliability.** From Appleton, Wis. USA, our engine-driven welders are the most rugged, durable and long-lasting in the industry. We manufacture them to exceed requirements for extreme working conditions and they are hard-working from the core:

- Copper windings and robust internal components for a quality-built machine
- Lugged — not soldered — heavy internal leads for better field durability
- Superior cooling technology for maximum performance and engine life
- Super-tough armor to protect the engine-driven welder from accidental impact
- Protective armor doors to cover the weld studs and receptacles as required by OSHA and CSA for jobsite safety
- Lift hook integrated into the center frame, which bolts to the machine's base for greater durability

**Long runtimes.** Large 12-gallon fuel capacity means many hours of run time before refueling.

#### Versatile AC and DC weld output.

Provides quality welds on all types of metals. DC is smooth and easy to run while AC stick is used when arc blow occurs.



**Easy maintenance.** With its intuitive design, the daily maintenance of Bobcat engine-driven welders is fast and easy. Front panel maintenance displays help you know when your equipment needs to be serviced. Servicing is simple because of:

- Oil checks that can be performed from the top by the front panel
- Toolless panels that allow for quick access
- Single-side fuel fill and oil drain/filter



**Quiet operation.** Significant improvements in sound level and quality offer better jobsite communication, which provides a more efficient working environment for you and your crew. Bobcat engine-driven welders have rotated the engine toward the front to create more efficient airflow, resulting in significantly quieter operation. Now you can start your job earlier in the day and end it later, as well as work around hospitals, businesses, and residential areas.



**Small, light design.** Bobcat engine-driven welders take up less space on trucks and trailers — leaving more room on your truck for other equipment and tools. Plus, they're easier to move around jobsites — even with weld cables and running gear attached.



Engine-driven welder is warrantied for three years, parts and labor.  
Engine is warrantied separately by the engine manufacturer.



**Miller Electric Mfg. LLC**  
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

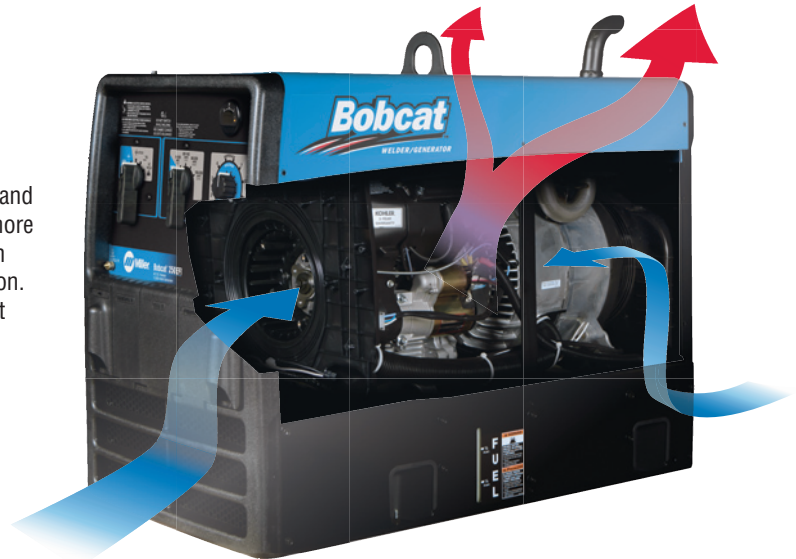
**MillerWelds.com**



# The Bobcat™ Advantage

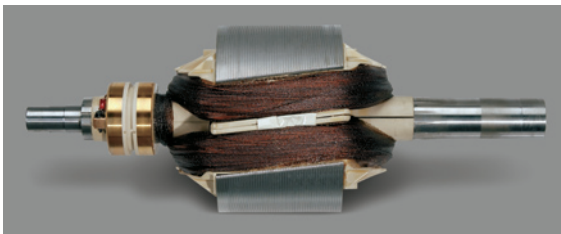
## Reversed air flow for optimized cooling

Exclusive engine and internal componentry design operates cooler and more efficiently. The engine is rotated towards the front to create more efficient airflow. More efficient airflow and exclusive engine location are significant contributors to reduced sound level and size reduction. Hot air recirculation is eliminated when machine is mounted in tight spots, and internal parts are kept cool for optimal performance.



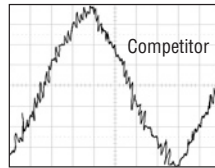
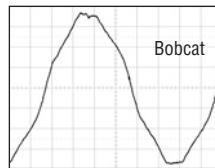
## Accu-Rated™ – not inflated auxiliary power

Our Accu-Rated™ 11,000 watts of *usable* peak power is delivered for a minimum of 30 seconds. Accu-Rated means peak power is usable for maximum auxiliary power loads such as plasma cutting, Millermatic® MIG welders and motor starting. Accu-Rated peak power beats the competition's very short-duration peak or surge power. Use your peak power, it's more than a number.



## Smooth power – not spike power

Revolutionary ten-degree skewed-rotor design optimizes auxiliary power performance for smoother power — not spiked power found with other brands. Better power — better performance.



Waveform Comparison

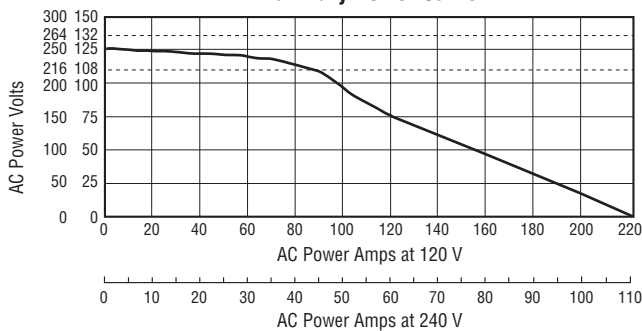
## Typical equipment power usage

Bobcat engine-driven welders will easily start and run the following equipment:

| Equipment  | Starting Watts | Running Watts |
|--|----------------|---------------|
| Barn Cleaner (5 hp)                                | 11,600         | 3,000         |
| Silo Unloader (5 hp)                               | 12,200         | 4,300         |
| Portable Conveyor (1/2 hp)                         | 3,400          | 1,000         |
| Milker (5 hp)                                      | 10,500         | 2,800         |
| Hand Drill (1/2 inch)                              | 600            | 600           |
| Circular Saw (8-1/4 inch)                          | 1,400          | 1,400         |
| Air Compressor (1-1/2 hp)                          | 8,200          | 2,200         |
| Flood Lights (Vapor)                               | 1,250          | 1,000         |
| Spectrum® 625 X-TREME™ (30 A, 230 V, 1/2-inch cut) | 6,900          | 6,900         |

To size a unit that has enough power output in watts, add the watts for the items you want to simultaneously run. Tools with induction motors may require three to seven times the listed wattage when starting. **All data listed is approximate — check your tool for specific wattage requirements.**

Auxiliary Power Curve



Tools and motors are designed to operate within 10 percent of 120/240 V. The auxiliary power of the Bobcat provides strong power while keeping the voltage within 10 percent of 120/240 V. **This increases tool/motor performance and life.**

# Specifications (Subject to change without notice.)



| Welding Mode | Process   | Amp/Volt Ranges | Rated Output at 100% Duty Cycle (at 104°F/40°C)* | Auxiliary Power   | Sound Levels at Max. Load/ at 150 Amps | Dimensions  | Net Weight**     |
|--------------|-----------|-----------------|--|---|--|---|------------------|
| CC/AC        | Stick/TIG | 40–225 A        | 200 A at 25 V                                    | <b>Single-phase</b><br>Peak: 11,000 watts<br>Continuous: 9,500 watts<br>120/240 V, 84/42 A<br><br><b>Three-phase</b><br>Peak: 11,000 watts<br>Continuous: 10,000 watts<br>480 V, 13 A | 73.5 dB/72 dB                          | H: 28 in. (711 mm)<br>H: 32.75 in. (832 mm)<br><i>(to top of exhaust)</i><br>W: 20 in. (508 mm)<br>D: 40.5 in. (1,029 mm) | 495 lb. (225 kg) |
| CC/DC        | Stick/TIG | 40–210 A        | 210 A at 25 V                                    |   |  |   |                  |
| CV/DC        | MIG/FCAW  | 19–28 V         | 200 A at 20 V                                    |   |  |   |                  |

\*Rated at sea level. \*\*Net weight without fuel.

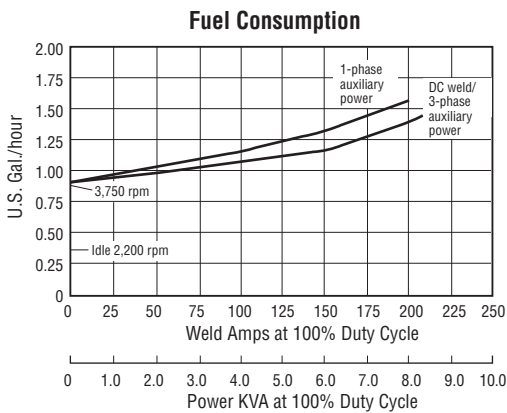
Certified by Canadian Standards Association to both the Canadian and U.S. Standards.

## Engine Specifications (Engines warranted separately by the engine manufacturer.)

| Engine Brand and Warranty     | Horsepower (HP)      | Type   | Weld Speed | Idle Speed | Fuel Capacity  | Oil Capacity    | Standard Shutdowns |
|-------------------------------|----------------------|--|------------|------------|----------------|-----------------|--------------------|
| Kohler CH730, 3-year warranty | 23.5 hp at 3,600 rpm | Twin-cylinder, four-cycle overhead valve, industrial air-cooled, gasoline* | 3,600 rpm  | 2,300 rpm  | 12 gal. (45 L) | 1.5 qt. (1.4 L) | Low oil pressure   |

\*Fuel stabilizer is recommended for gas engines that are used infrequently.

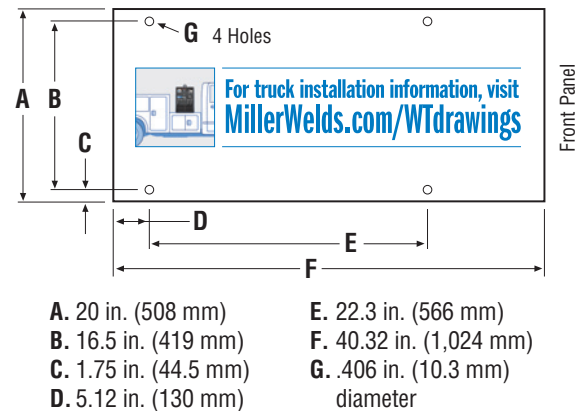
## Performance Data



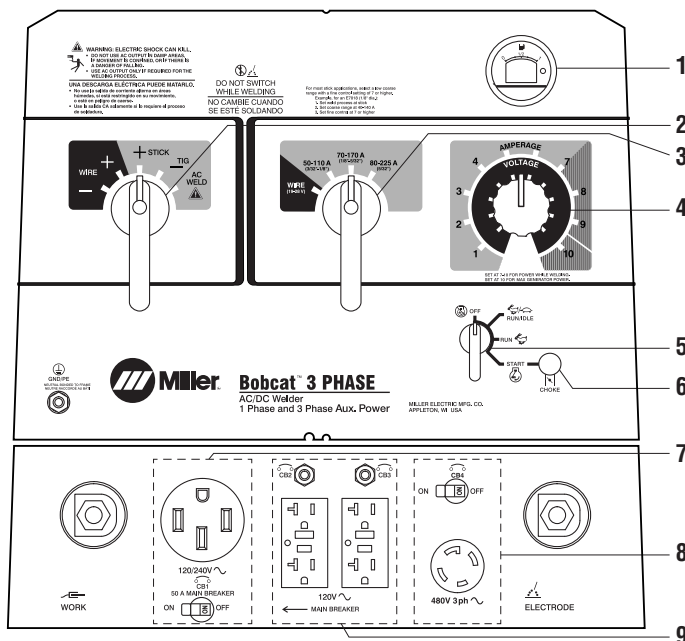
### Fuel Consumption Data

- 12-gallon fuel capacity.
- On a typical job using 1/8-inch 7018 electrodes (125 A, 20% duty cycle) expect about 20 hours of operation.
- Welding at 150 A, 40% duty cycle uses approximately 3/4 gallon per hour — about 16 hours of operation.
- Under a continuous load of 4,000 watts of auxiliary power, the Bobcat would run for about 14 hours of operation.

## Mounting Specifications



## Function and Benefit Guide



1. **Maintenance display** provides fuel level, engine hours and oil change interval information.
2. **Weld process selector switch** makes choosing between stick, wire and TIG processes easy. Switch also automatically changes polarity with process selection to make sure the machine is easy to set with little effort or knowledge.
3. **Coarse range control.** Three stick/TIG and one wire range are available for output control. Stick/TIG ranges are designed to electrode diameters (3/32, 1/8, and 5/32 inch) making these models **very easy to set.**
4. **Fine adjust control** makes it easy to fine tune amperage within a coarse range. Set control above 7 for best power while welding and to 10 for auxiliary-power-only use.
5. **Engine control switch** is used to start the engine and then select between auto idle and high speed lock positions.
6. **Engine choke control** is used for easy engine starting.
7. **120/240 V receptacle with circuit breaker.** (For matching plug, order **119172.**)
8. **480 V receptacle with circuit breaker.** (For matching plug, order **165963.**)
9. **120 V GFCI receptacles with circuit breakers.**

## Genuine Miller® Accessories (For additional options and accessories, see Bobcat literature ED/4.42)

**GFCI Receptacles 300975** Field  
Kit contains two GFCI 120 V duplex receptacles.

**Electric Fuel Pump 300976** Field  
Recommended for gas engine operations at altitudes above 5,000 feet. Improves engine starting and high-output performance.

**Spark Arrestor 300924** Field  
Mandatory when operating on California grasslands, brush or forest-covered land, and all national forests. For other areas, check your state and local laws.

**Full KVA Adapter Cord 300517** Field  
NEMA 14-50P to NEMA 6-50R. Adapts engine drive 120/240 V plug to common Millermatic® and Spectrum® 240 V plug.

**Full KVA Plug 119172** Field  
120/240 V, 50 A plug (NEMA 14-50P) to fit full KVA receptacle.

**Full KVA 3-Phase Plug 165963** Field  
480 V, 30 A plug (NEMA L16-30P) to fit 3-phase receptacle.

**Engine Tune-Up Kit 290804** Field  
Includes air and fuel filters, and two spark plugs.

**ArcReach® SuitCase® Wire Feeders**  
See literature M/6.55.

**Dynasty® 210 Series TIG Welders**  
See literature AD/4.81.

**Spectrum® Plasma Cutters**  
See literature PC/9.2, PC/9.6 and PC/9.8.



### Never Flat™ Tires

Available on Bobcat and Trailblazer running gear.

- Eliminate costly jobsite downtime

- Maintain constant tire pressure and will not develop flats
- Protect against punctures
- Preserve maneuverability, even when weighed down with heavy welding cable



**Off-Road Running Gear 300909** w/inner tubes  
**300910** w/Never Flat tires  
Includes four heavy-duty 15-inch tires and a rugged handle to provide maximum maneuverability.



**Off-Road Running Gear with Protective Cage and Never Flat Tires 300912**  
Running gear and rugged cage with cable holders protects your investment and is easy to move around the jobsite.



**Multi-Terrain Running Gear 300913** w/inner tubes  
**300914** w/Never Flat tires  
Includes two heavy-duty 15-inch tires, two 8-inch rubber swivel casters and a

heavy-duty handle. Recommended for all surfaces and applications.

**Protective Cage with Cable Holders 300921**  
Rugged cage with cable holders protects your investment. Can be used with running gear, gas cylinder mounting assembly, or with trailer.

### Protective Covers

**300919** For models **without** protective cage or running gear (shown)

**300920** For models **with** protective cage and/or running gear

Heavy-duty, water-resistant and mildew-resistant covers protect and maintain finish of the welder.

### HWY-Mid Frame Trailer 301438

A 1,424-pound (646 kg) capacity highway trailer. Includes jack stand, fenders, lights, and dual hitch with 2-inch (50 mm) ball hitch and 3-inch (76 mm) lunette eye. Shipped unassembled.

### Cable Tree 043826

Provides an area to conveniently wrap weld cables and extension cords.

### 2-In-1 Document/Fire Extinguisher Holder 301236

Stores documents and holds a five-pound fire extinguisher.

## Ordering Information

| Equipment and Options                 | Stock No.     | Description   | Qty. | Price |
|---------------------------------------|---------------|---|------|-------|
| <b>Bobcat™ 3 Phase</b>                | <b>907505</b> | Kohler engine with GFCI receptacles   |      |       |
| GFCI Receptacles                      | <b>300975</b> | Field   |      |       |
| Electric Fuel Pump                    | <b>300976</b> | Field. Recommended for gas engine operations at altitudes above 5,000 feet  |      |       |
| Spark Arrestor                        | <b>300924</b> | Field   |      |       |
| Full KVA Adapter Cord                 | <b>300517</b> | Field   |      |       |
| Full KVA Plug                         | <b>119172</b> | Field   |      |       |
| Full KVA 3-Phase Plug                 | <b>165963</b> | Field   |      |       |
| Engine Tune-Up Kit                    | <b>290804</b> | Field. For Kohler CH730. Includes air and fuel filters, and two spark plugs |      |       |
| <b>MIG/Flux-cored/TIG Welding</b>     |               | See above   |      |       |
| <b>Plasma Cutting</b>                 |               | See above   |      |       |
| <b>Accessories</b>                    |               |   |      |       |
| Off-Road Running Gear                 |               | See above   |      |       |
| Multi-Terrain Running Gear            |               | See above   |      |       |
| Protective Cage w/Cable Holders       | <b>300921</b> |   |      |       |
| Protective Covers                     |               | See above   |      |       |
| HWY-Mid Frame Trailer and Accessories |               | See above   |      |       |

Date:

Total Quoted Price:

Distributed by:

