

# Bobcat<sup>™</sup> Series

Issued April 2010 • Index No. ED/4.4

Gas, LP or Diesel Engine-Driven  
Welder/AC Generator



## Quick Specs

### Industrial Applications

Maintenance  
Repair  
Farm/Ranch Applications  
Fabrication  
Structural Steel Work  
Use as a Stand-Alone Generator

### Processes

Stick (SMAW)  
Flux Cored (FCAW)  
MIG (GMAW)  
DC TIG (GTAW)  
Non-Critical AC TIG (GTAW)  
Air Carbon Arc (CAC-A) Cutting and Gouging (3/16 in carbons)  
Air Plasma Cutting and Gouging with optional Spectrum models  
Optional Battery Charger

### Output Range

|              | 225      | 250      | 250 EFI  |
|--------------|----------|----------|----------|
| AC TIG/Stick | 50–225 A | 40–250 A | 40–275 A |
| DC Stick/TIG | 50–210 A | 40–250 A | 40–275 A |
| FCAW/MIG     | 19–28 V  | 17–28 V  | 17–28 V  |

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

225/250 Peak: 11,000 W  
225/250 Continuous: 9,500 W

250 EFI Peak: 12,000 W  
250 EFI Continuous: 10,500 W

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

## The Power of Blue.®

Reliable Bobcat engine-driven welding generators are the industry standard for quality and value. Multiprocess weld output, strong generator power, and most important — rated #1 in reliability, make the Bobcat the welding industry's most popular choice. **Bulletproof inside and out.**

**Versatile AC and DC Stick/TIG plus Wire capabilities** provide quality welds on all types of metals. DC is smooth and easy to run while AC Stick is used when arc blow occurs.

*Note: AC TIG requires Dynasty 200 Series or HF-251 (non-critical).*

**Accu-Rated™—Not Inflated Generator Power.** Miller's Accu-Rated 11,000 watts (12,000 with EFI) of *usable* peak power is delivered for a minimum of 30 seconds. See page 4 for more information.

**Welding and generator power ratings are at 104°F (40°C)**—highest in its class to ensure reliable performance.

**Fuel capacity of 12 gallons** means many hours of run time before refueling.

## Toughest Welders...

**CASE CLOSED**



Bobcat 250 (gas model) shown

**New!** Optional Bobcat 250 EFI Model with 12,000 Watts and More Weld Power!

### Meter maintenance displays:

- Hour meter function and oil change interval
- Diesel: High coolant temperature shutdown, low oil pressure shutdown and low fuel shutdown—engine shuts down before system runs out of fuel making restarts easy

## Bobcat 250 models only

See Choose the Right Gas Engine Drive on page 2 for more information.

### Optional EFI

**NEW! Electronic Fuel Injection (EFI) Benefits vs Carburetor Models**

- 12% to 27% better fuel economy!
- Reduced emissions—33% lower HC+Nox levels and 27% lower CO! (EPA 1000 Hour Certification)
- Easy starting in all climates with no choke required
- Elimination of carburetor icing
- Better high-altitude performance (electric fuel pump is recommended)
- EFI is more reliable when using equipment infrequently
- 12,000 watts of generator power and more weld output

The addition of the Bobcat's Tri-Cor™ Technology provides improved Stick arc performance with 7018 electrodes.

**Front panel fuel and sight gauges** provide convenient fuel level indication. *Note: Diesel engine will shut down before the system runs out of fuel making restarts easy.*



For truck installation information, visit [MillerWelds.com/truck](http://MillerWelds.com/truck)

**TRUE BLUE**  
3 YR. WARRANTY

Welder/generator is warranted for 3 years, parts and labor. Engine is warranted separately by the engine manufacturer.

MADE IN **USA**  
APPLETON, WI



**Miller Electric Mfg. Co.**  
An Illinois Tool Works Company  
1635 West Spencer Street  
Appleton, WI 54914 USA

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

**Web Site**  
[www.MillerWelds.com](http://www.MillerWelds.com)



# Specifications (Subject to change without notice.)



| Model      | Welding Mode   | Process   | Amp/Volt Ranges                               | Weld Output Rated at 100% Duty Cycle (at 104°F/40°C)*                                                                | Single-Phase Generator Power                                                                                                                                     | Sound Levels at Rated Output, 7 m (23 ft)                                                                      | Dimensions                                                                                                                                                                                                                                                               | Net Weight**                                                                       |
|------------|----------------|-----------|-----------------------------------------------|----------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------|
| Bobcat 225 | CC/AC          | TIG/Stick | 50–225 A                                      | 225 A at 25 V                                                                                                        | Peak: 11,000 watts<br>Continuous: 9,500 watts<br>120/240 VAC, 88/44 A, 60 Hz                                                                                     | 75.5 dB (100.5 Lwa)                                                                                            | H: 28 in (711 mm)<br>H: 33 in (838 mm)<br>to top of exhaust<br>W: 20 in (508 mm)<br>D: 45-1/2 in (1156 mm)                                                                                                                                                               | 530 lb (240 kg)                                                                    |
|            | CC/DC          | Stick/TIG | 50–210 A                                      | 210 A at 25 V                                                                                                        |                                                                                                                                                                  |                                                                                                                |                                                                                                                                                                                                                                                                          |                                                                                    |
|            | CV/DC          | MIG/FCAW  | 19–28 V                                       | 200 A at 20 V                                                                                                        |                                                                                                                                                                  |                                                                                                                |                                                                                                                                                                                                                                                                          |                                                                                    |
| Bobcat 250 | CC/AC<br>CC/DC | Stick/TIG | 40–100 A<br>60–140 A<br>80–200 A<br>100–250 A | 250 A at 25 V<br>(275 A at 25 V, 60% Duty Cycle)<br><b>EFI Model</b><br><b>250 A at 28 V</b><br><b>275 A at 25 V</b> | Peak: 11,000 watts<br>Continuous: 9,500 watts<br>120/240 VAC, 88/44 A, 60 Hz<br><b>EFI Model</b><br><b>Peak: 12,000 watts</b><br><b>Continuous: 10,500 watts</b> | <b>Kohler:</b> 75.5 dB (100.5 Lwa)<br><b>Subaru:</b> 76.5 dB (101.5 Lwa)<br><b>Kubota:</b> 80.5 dB (105.5 Lwa) | <b>Gas/LP Model:</b><br>H: 28 in (711 mm)<br>H: 33 in (838 mm)<br>to top of exhaust<br>W: 20 in (508 mm)<br>D: 45-1/2 in (1156 mm)<br><b>Diesel Model:</b><br>H: 30 in (762 mm)<br>H: 34-1/4 in (870 mm)<br>to top of exhaust<br>W: 20 in (508 mm)<br>D: 52 in (1321 mm) | <b>Gas/LP Model:</b><br>556 lb (252 kg)<br><b>Diesel Model:</b><br>700 lb (318 kg) |
|            | CV/DC          | MIG/FCAW  | 17–22 V<br>20–28 V                            | 250 A at 28 V<br>(275 A at 25 V, 60% Duty Cycle)                                                                     |                                                                                                                                                                  |                                                                                                                |                                                                                                                                                                                                                                                                          |                                                                                    |

Note: Derate outputs up to 5% when using LP fuel. \*Rated at sea level. \*\*Net weight without fuel.

Certified to both Canadian and U.S. Standards for welding equipment available. See ordering information on back.

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

| Engine Brand/Warranty                      | Horsepower (HP)                                | Type                                                                                              | Weld Speed | Idle Speed | Fuel Capacity | Oil Capacity                                | Standard Shutdowns                                  |
|--------------------------------------------|------------------------------------------------|---------------------------------------------------------------------------------------------------|------------|------------|---------------|---------------------------------------------|-----------------------------------------------------|
| Kohler: 3-year mfg.                        | 23 HP (gas), 25 HP EFI, 25 HP (LP) at 3600 RPM | Twin-cylinder, 4-cycle overhead valve, industrial air-cooled, gasoline* (carburetor or EFI) or LP | 3600 RPM   | 2300 RPM   | 12 gal (45 L) | 1.5 qt (1.4 L)                              | Low Oil Pressure                                    |
| Subaru: 3-year mfg.                        | 23 HP at 3600 RPM                              | Twin-cylinder, 4-cycle overhead valve, industrial air-cooled, gasoline*                           | 3600 RPM   | 2300 RPM   | 12 gal (45 L) | 1.6 qt (1.5 L), 1.8 qt (1.75 L) with filter | Low Oil Pressure                                    |
| Kubota: 2-year limited North American mfg. | 19 HP at 3600 RPM                              | 3-cylinder, industrial liquid-cooled, diesel                                                      | 3600 RPM   | 2450 RPM   | 12 gal (45 L) | 3.4 qt (3.2 L)                              | High Coolant Temperature/ Low Oil Pressure/Low Fuel |

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

## Choose the Right Gas Engine Drive

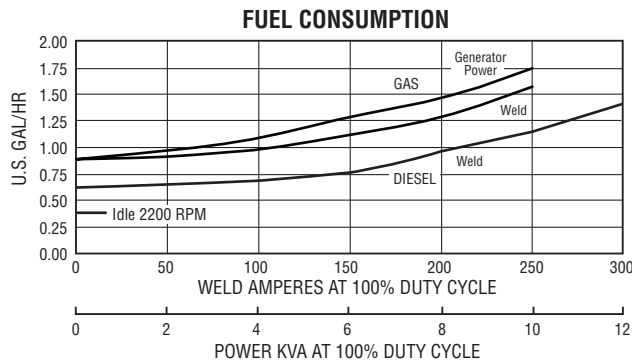
| Product Description             | Bobcat 225                                                                                                                                       |         | Bobcat 250                                                                                                                                                    |
|---------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------|---------|---------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                 | Cost-effective multiprocess machine primarily used for Stick is great for farm, ranch, stand-alone generator, and maintenance/repair operations. |         | Rugged engine drive is great for Stick and Flux Cored welding and is designed for maintenance/repair operations, construction, farm, ranch and generator use. |
| <b>Welding Performance</b>      |                                                                                                                                                  |         |                                                                                                                                                               |
| MIG—Wire (Solid/FCAW), Steel    | Fair                                                                                                                                             | Upgrade | Good                                                                                                                                                          |
| MIG—Wire, Aluminum w/Spool Gun  | Fair                                                                                                                                             | Upgrade | Good                                                                                                                                                          |
| TIG—DC, Steel                   | Good                                                                                                                                             | Upgrade | Very Good                                                                                                                                                     |
| TIG—AC, Aluminum w/H.F.*        | Fair                                                                                                                                             | Upgrade | Fair/Good                                                                                                                                                     |
| <b>Generator</b>                |                                                                                                                                                  |         |                                                                                                                                                               |
| Watts                           | 11,000 Watts                                                                                                                                     | Upgrade | 11,000 Watts/12,000 with EFI                                                                                                                                  |
| Power While Welding             | Fair/Good with voltage control set near maximum                                                                                                  | Upgrade | Good—easier to fine tune arc with voltage control near maximum                                                                                                |
| <b>Key Features</b>             |                                                                                                                                                  |         |                                                                                                                                                               |
| Maintenance Displays            | Hours/Oil Change                                                                                                                                 | Upgrade | Hours/Oil Change/Fuel                                                                                                                                         |
| EFI (Electronic Fuel Injection) | Not available                                                                                                                                    | Upgrade | Optional                                                                                                                                                      |

\*High Frequency Arc Starter and Stabilizer.

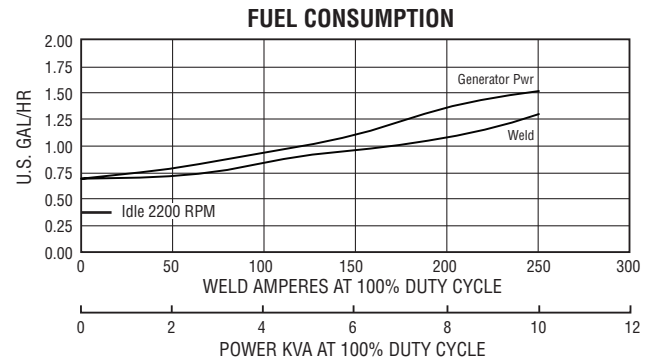
# Why Buy a Gas or Diesel Engine?

| Gas Advantages                                                                                                                                                                                                                           | EFI Advantages (vs. Carburetor Models)                                                                                                                                                                                                                                     | Diesel Advantages                                                                                                                                                                                                                                                                                        |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <ul style="list-style-type: none"> <li>• Lower product cost (by 50–70%)</li> <li>• Smaller size and less weight</li> <li>• Less expensive engine repairs</li> <li>• Better warranties</li> <li>• Easier cold weather starting</li> </ul> | <ul style="list-style-type: none"> <li>• 12–27% better fuel economy</li> <li>• Reduced emissions (approx. 1/3 lower)</li> <li>• Easy starting in all climates (no choke)</li> <li>• Elimination of carburetor icing</li> <li>• Better high altitude performance</li> </ul> | <ul style="list-style-type: none"> <li>• Uses 20–40% less fuel than carburetor gas</li> <li>• 1-1/2 to 2-1/2 times the engine life</li> <li>• Required on some job sites for safety</li> <li>• Typically have longer maintenance intervals</li> <li>• Convenient if other equipment is diesel</li> </ul> |

## Gas Carburetor and Diesel Models



## Gas EFI Models



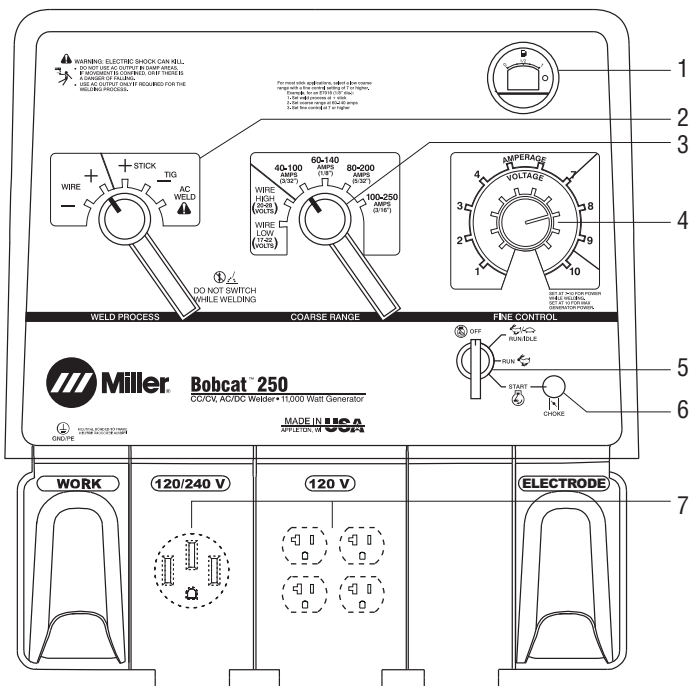
### FUEL CONSUMPTION DATA

- 12-gallon fuel capacity.
- On a typical job using 1/8-in 7018 electrodes (125 A, 20% duty cycle) expect about 20 hrs (gas) or 24 hrs (diesel) of operation.
- Welding at 150 A, 40% duty cycle uses approximately: 3/4 gallon per hour — about 16 hrs of operation (gas) or 1/2 gallon per hour — about 20 hrs of operation (diesel).
- Under a continuous load of 4000 watts of generator power, the Bobcat would run for about 14 hrs (gas) or about 17 hrs of operation (diesel).

### HOW EFI CAN SAVE YOU MONEY

- 120 V, 20 A continuous load (25 hrs/week, \$3/gal): fuel cost carbureted = \$75, fuel cost EFI = \$54.75. Difference of approximately \$20 x 50 weeks = **\$1,000 per year savings with EFI!**
- Running 1/8 in 7018 electrodes at 20% duty cycle, **EFI will save \$405 per year!**
- Running .045 diameter wire at 40% duty cycle, **EFI will save \$502 per year!**

## Function Guide

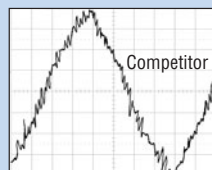
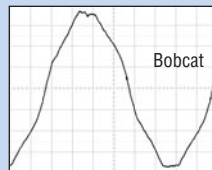


- 1. Maintenance Displays** provide fuel level (250 models only), engine hours and oil change interval information. Diesel model adds high coolant temperature and low oil pressure shutdowns.
- 2. Weld Process Selector Switch** makes choosing between Stick, Wire and TIG processes easy. Switch also automatically changes polarity with process selection to make sure the machine is easy to set with little effort or knowledge.
- 3. Coarse Range Control**  
**225 Model** — 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 in) making these models **very easy to set**.  
**250 Model** — Four Stick/TIG and two Wire ranges are available for output control. Stick/TIG ranges are designed to electrode diameters (3/32, 1/8, 5/32 and 3/16 in) 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 generator-only use.
- 5. Engine Control Switch** is used to start the engine and then select between Auto Idle and High Speed Lock. Diesel model can be locked in idle for low-speed starting.
- 6. Engine Choke Control** (Gas/LP models) is used for easy engine starting.  
*Note: No choke necessary on EFI models.*  
**Glow Plugs** (Diesel model) assist in cold weather starting.
- 7. 120 VAC and 240 VAC Covered Receptacles with Circuit Breakers** meet/exceed OSHA/CSA requirements for job site safety (optional 120 VAC GFCI receptacles available).  
*Note: For matching plug, order #119 172.*

# The Bobcat Generator Power Advantage

## Accu-Rated™ — Not Inflated Generator Power

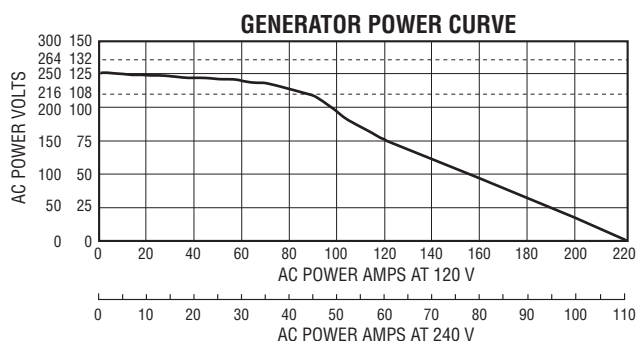
Miller's Accu-Rated™ 11,000 watts (**12,000 with EFI**) of *usable* peak power is delivered for a minimum of 30 seconds. Accu-Rated means peak power is usable for maximum generator loads such as plasma cutting, Millermatic® MIG welders and motor starting. Accu-Rated peak power beats the competition's very short-duration peak or surge power. Use your peak power, it's more than a number.



Waveform Comparison

## Smooth Power — Not Spike Power

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



Tools and motors are designed to operate within 10% of 120/240 VAC. The Bobcat's power generator provides strong power while keeping the voltage within 10% of 120/240 VAC. **This increases tool/motor performance and life.**

## TYPICAL EQUIPMENT POWER USAGE

Bobcats will easily start and run the following equipment:

| Equipment                                        | Starting Watts | Running Watts |
|--------------------------------------------------|----------------|---------------|
| Barn Cleaner (5 HP)                              | 11,600         | 3000          |
| Silo Unloader (5 HP)                             | 12,200         | 4300          |
| Portable Conveyor (1/2 HP)                       | 3400           | 1000          |
| Milker (5 HP)                                    | 10,500         | 2800          |
| Hand Drill (1/2 inch)                            | 600            | 600           |
| Circular Saw (8-1/4 inch)                        | 1400           | 1400          |
| Air Compressor (1-1/2 HP)                        | 8200           | 2200          |
| Flood Lights (Vapor)                             | 1250           | 1000          |
| Refrigerator/Freezer                             | 2200           | 700           |
| Sump Pump                                        | 1300           | 800           |
| Millermatic® 212 Auto-Set™ MIG Welder (230 V)    | 6500           | 6500          |
| Spectrum® 625 X-TREME™ (30 A, 230 V, 1/2 in cut) | 6900           | 6900          |

To select a generator that has enough power output in watts, add the watts for the items you want to simultaneously run. Tools and appliances with induction motors may require 3–7 times the listed wattage when starting. All data listed is approximate — check your tool/appliance for specific wattage requirements.

## SIMULTANEOUS WELDING AND POWER

| Weld Current in Amperes | Total Power in Watts | 120 V Full kVA Receptacle Amperes | 240 V Full kVA Receptacle Amperes |
|-------------------------|----------------------|-----------------------------------|-----------------------------------|
| 0                       | 11,000               | 88*                               | 44*                               |
| 90                      | 8000                 | 66*                               | 33                                |
| 125                     | 5200                 | 43*                               | 21                                |
| 180                     | 3500                 | 29*                               | 14                                |
| 250                     | 2200                 | 18                                | 9                                 |

For example, if you're welding at 125 amps you also have 5200 watts available for powering lights or tools (either 43 amps from the 120 volt full kVA receptacle or 21 amps from the 240 volt full kVA receptacle).

\*50 A, 120/240 VAC receptacle. See Owner's Manual for additional information.

## The Bobcat Competitive Advantage

### Make deadlines, not excuses.

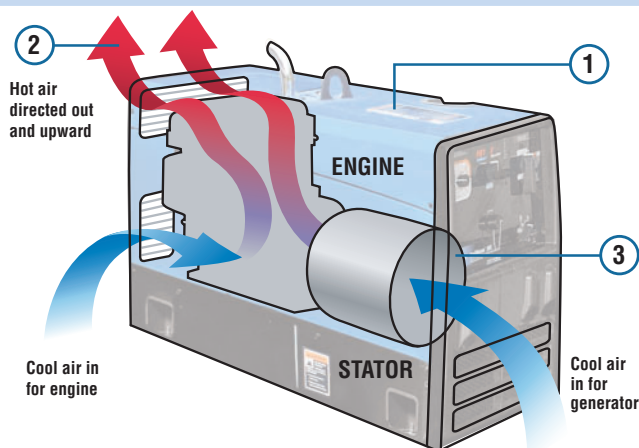
- 68% of service technicians, managers and owners, recommend the Bobcat over the competition.



Technician Recommendations

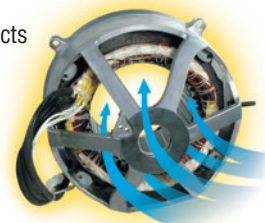
- 98% of current owners are "satisfied to very satisfied" with the Bobcat.\*

\*Based on an independent survey of thousands of Bobcat owners.



Directed airflow improves cooling for long engine and component life.

- 1 The fully enclosed case design virtually eliminates hot air recirculation when machine is mounted in tight spots.
- 2 Louver-directed air flow keeps the temperature of internal parts cool for maximum performance and extended life.
- 3 Self-cooling stator barrel completely encloses and protects its generator from the dirtiest and harshest environments.



All ratings are tested at 104°F (40°C) to maintain tough work schedules, even in hot weather.

## Genuine Miller Options

\*Available as factory option. See ordering information on back page.

**GFCI Protection\* #195 496** Field  
Ground Fault Circuit Interruptors are required on some construction sites. Kit contains two GFCI 120 VAC duplex receptacles. (240 VAC GFCI receptacle not required).

### LP Gas\*

Liquid withdrawal with vaporizer and regulator. Does not include tanks, brackets, or hose from tank to regulator.

*Note: Requires LP Tank Mounting Assembly #195 329.*

**Electric Fuel Pump\* #195 214** Field  
For gas models at high altitude. Improves engine starting and high-output performance.

### Battery Charger\*

Built-in system for industrial battery charging. Charges 12, 24 and 36 V batteries while not welding or using generator power.

*Note: AC weld output not available with this option.*



**FA-7.5 Flame Arrestor Fuel Cap** (Gasoline Red)  
**#042 632** Field  
Lockable for added protection.

**Spark Arrestor #043 579** 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.



### Remote Oil Drain/Filter Kits

#### Rear Mounted (shown)

**#300 106** Field. For Kohler  
**#300 417** Field. For Subaru  
Oil can be drained from rear of machine.

#### Front/Chassis Truck Mounted

**#300 236** Field. For Kohler  
**#300 418** Field. For Subaru  
Oil can be drained from the front of the machine or below the truck, mounted on the chassis.  
Makes servicing easy when engine drive is mounted in tight spots.



Female Receptacle

**Adapter Cord, Full KVA #300 517** 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 Kit

**#119 172** Field  
120/240 VAC, 50 amp plug (NEMA 14-50P) to fit full KVA receptacle.

*Order the following from Miller Service Parts.*

### Engine Tune-Up Kits

**#230 015** Field. Kohler CH 23 (Gas)  
**#246 115** Field. Kohler ECH 730 (EFI Gas)  
**#180 096** Field. Kohler CH 20 (LP) and CH 730 (LP)  
**#199 062** Field. Subaru EH 65  
**#206 421** Field. Kubota D722  
Tune-up kits include spark plugs (Gas/LP models) and engine filters.

**TIG Adapter with Extension #195 350** Field  
Extension with Power Cable Adapter 45V11. Required for scratch start TIG welding with Bobcats.

## Genuine Miller Accessories



### All-Purpose Running Gear

**#300 396** Gas/LP, with inner tubes  
**#300 477** Gas/LP, with Never Flat™ tires

Includes two heavy-duty 15 in tires, two 8 in rubber swivel casters and a heavy-duty handle. Recommended for all surfaces and applications, and is easy to move around the job site.

### All-Purpose Running Gear with Protective Cage

**#300 428** Gas/LP, with inner tubes  
**#300 478** Gas/LP, with Never Flat™ tires  
Running gear and rugged cage with cable holders protects your investment and is easy to move around flat surfaces.

### All-Terrain Running Gear EZ

**#300 572** Gas, with inner tubes  
**#300 574** Gas, with Never Flat™ tires  
Includes two heavy-duty 15 in tires, two 10 in pneumatic tires with innertubes and a rugged handle to provide maximum maneuverability.

*Note: Not for use with Gas Cylinder Mounting Assembly or LP Tank Mounting Assembly.*



### All-Terrain Running Gear EZ with Protective Cage

**#300 573** Gas, with inner tubes  
**#300 575** Gas, with Never Flat™ tires

Running gear and rugged cage with cable holders protects your investment and is easy to move around the jobsite.

*Note: Not for use with Gas Cylinder Mounting Assembly or LP Tank Mounting Assembly.*



### Protective Cage with Cable Holders

**#195 331** Gas/LP  
**#300 052** Diesel  
Rugged cage with cable holders protects

your investment. Can be used with running gear, Gas Cylinder Mounting Assembly, LP Tank Mounting Assembly, or with trailer.



### Gas Cylinder Mounting Assembly

**#195 330** Gas/Diesel  
Designed for use with All-Purpose Running Gear, Protective Cage, or by itself. Includes

base tray with bottle bracket, vertical support rack and safety chain.

*Note: Not recommended for diesel models when equipped with All-Purpose Running Gear. Not for use with LP Tank Mounting Assembly or All-Terrain Running Gears. Not recommended for use with Protective Cover.*



### LP Tank Mounting Assembly

**#195 329** LP  
Designed for use with All-Purpose Running Gear, Protective Cage,

or by itself. Includes bracket and clamp to mount 33 and 43 lb tanks horizontally, and hose with fittings to converter.

*Note: Not for use with Gas Cylinder Mounting Assembly or All-Terrain Running Gears. Not recommended for use with Protective Cover.*

## Protective Covers



#195 333 shown

**#195 333** For Gas models **without** Protective Cage or Running Gear.

**#195 529** For Gas models **with** Protective Cage and/or Running Gear.

*Note: Protective Cage side rail support brackets cannot be used with cover.*

**#195 334** For Diesel model **without** Protective Cage or Running Gear.

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

## Plasma Cutting



**Spectrum® 375 X-TREME™ #907 339**  
See Lit. Index No. PC/9.2.

**Spectrum® 625 X-TREME™ #907 404** 12 ft (3.7 m) torch  
**#907 404-01-1** 20 ft (6.1 m) torch  
See Lit. Index No. PC/9.6.

The Spectrum 375 X-TREME and 625 X-TREME come complete with protective X-CASE™ (not shown).

## MIG/Flux Cored Welding



Millermatic 140  
Auto-Set and 212  
Auto-Set shown.

**Millermatic® 140 Auto-Set™ #907 335**  
See Lit. Index No. DC/12.42

**Millermatic® 180 Auto-Set™ #907 312**  
See Lit. Index No. DC/12.44

**Millermatic® 212 Auto-Set™ #907 405**  
See Lit. Index No. DC/12.46

The Millermatic line of MIG welders are complete arc welding power source, wire feeder and gun packages designed for portability and ease of use.

*Note: The Millermatic machines can be operated utilizing generator power.*



**SuitCase® X-TREME™ 8VS Wire Feeder #951 181**

**SuitCase® X-TREME™ 12VS Wire Feeder #951 184**

Lightweight, portable, voltage-sensing wire feeders include secondary contactor and gas valve. See Lit. Index No. M/6.41.



**Spoolmatic® 30A Spool Gun #130 831**

Rated 200 amps at 100% duty cycle.  
Air-cooled, 1-lb spool

gun for aluminum MIG. Includes 30 ft (9.1 m) cable assembly. See Lit. Index No. M/1.73. WC-115A required for hookup.

**WC-115A Control #137 546-01-1**  
With contactor. Use with Spoolmatic 30A.



**Spoolmate™ 3035 Spool Gun #195 016**

Use with SGA 100C Control and Heavy-Duty Barrel. Spool gun

for aluminum and other wires. 4 in spools; .023–.035 in (0.6–0.9 mm) aluminum, steel and stainless steel. Rated at 150 amps, 60% duty cycle with 20 ft (6 m) cable assembly.

**SGA 100C Control #043 857**  
SGA with contactor required to connect Spoolmate 3035 to CV engine drive. Includes 10 ft (3 m) 115 VAC power cable and plug, 6 ft (1.8 m) interconnecting cable, and 5 ft (1.5 m) gas hose.

**Heavy-Duty Barrel for Spoolmate™ 3035 #195 375**

Use for demanding applications, rated at 200 A, 60% duty cycle.

## TIG (GTAW) Welding



**Dynasty® 200 Series**

For premium portable AC/DC TIG arc quality. See Lit. Index No. AD/4.8.



**HF-251 Series #042 388**

HF-251D-1, 115 VAC  
High-frequency arc starter and stabilizer. See Accessory Lit. Index No. AY/5.0. Requires Secondary Contactor.

**Secondary Contactor #041 969** Field  
Required to use HF-251D-1.

## Trailers and Hitches



**HWY-1000 Trailer #195 013**

A 1000 lb (454 kg) capacity highway trailer with welded steel tubing frame, heavy-duty axle with roller bearing hubs and leaf-spring suspension. The HWY-1000 comes with jack stand, 2 in (50 mm) ball hitch, fenders and lights.

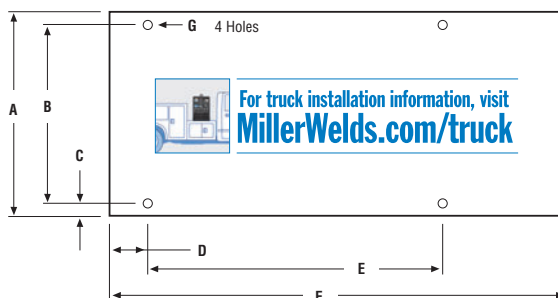
*Note: Trailer is shipped unassembled.*

**Cable Tree #195 023**

Provides an area to conveniently wrap weld cables and extension cords on the HWY-1000 trailer.

**Lunette Eye 2-1/2 in (64 mm) #043 824**

## Mounting Specifications



- A. 20 in (508 mm)
- B. 16-1/2 in (419 mm)
- C. 1-3/4 in (44 mm)
- D. 6-1/16 in (154 mm)
- E. 32-3/4 in (832 mm)
- F. 45-3/8 in (1153 mm) (Gas)  
52 in (1321 mm) (Diesel)
- G. 13/32 in (10 mm) diameter

**Height: (to top of exhaust)**  
33 in (838 mm) (Gas)  
34-1/4 in (870 mm) (Diesel)

**Width:** 20 in (508 mm)

**Depth:** 45-7/8 in (1164 mm) (Gas)  
52-1/2 in (1334 mm) (Diesel)

# Typical Installations for Bobcat 250



## Stick (SMAW) Basic Equipment

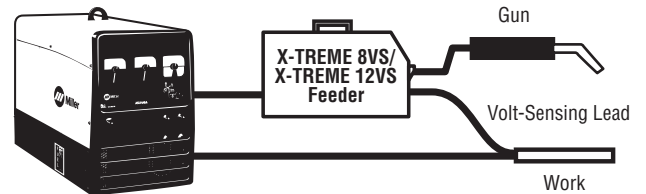
- Four-position range switch provides fine amperage control for typical electrode diameters (3/32, 1/8, 5/32 and 3/16 in).
- AC weld output for good arc quality with iron powder electrodes without fighting magnetic arc blow.
- Strong auxiliary power while welding — for example, if you are welding at 250 amps the Bobcat delivers 2200 watts of power to run tools, lights etc.



## Flux-Cored (FCAW) Basic Equipment

**SuitCase® X-TREME™ 8VS** #951 181  
**SuitCase® X-TREME™ 12VS** #951 184

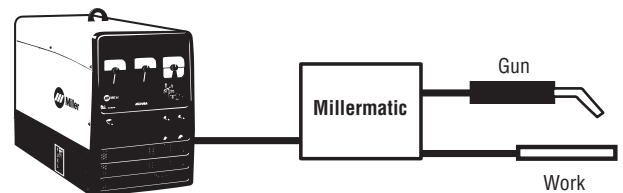
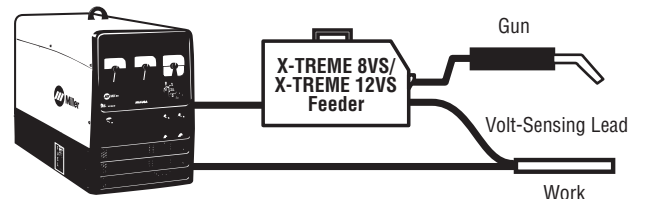
- 275 amps at 25 volts, 60% duty cycle (250 amps at 28 volts, 100% duty cycle). Strong output allows higher travel speeds and deposition rates than competitive machines.
- High voltage output ratings (28 volts at 250 amps) help to compensate for voltage drop across long weld cables.



## MIG (GMAW) Basic Equipment

**SuitCase® X-TREME™ 8VS** #951 181  
**SuitCase® X-TREME™ 12VS** #951 184  
**Millermatic® 140 Auto-Set™** #907 335  
**Millermatic® 180 Auto-Set™** #907 312  
**Millermatic® 212 Auto-Set™** #907 405

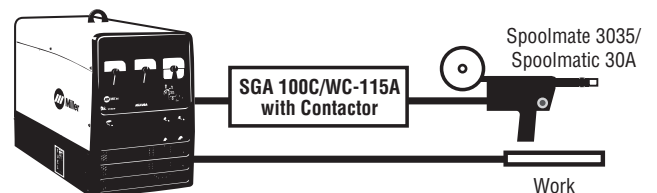
- Use .035 in solid wire with 75/25 argon mixed gas for welding down to 16 gauge steel.
- Use .045 solid wire with a minimum of 80% argon gas for spray transfer on 1/8 in and thicker material (flat and horizontal position).
- Millermatic machines utilize generator power.



## Aluminum MIG (GMAW) Basic Equipment

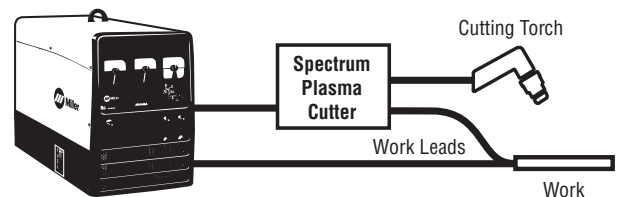
**Spoolmate™ 3035** #195 016  
**SGA 100C** #043 857  
**Spoolmatic® 30A** #130 831  
**WC-115A Control** #137 546-01-1

- Excellent results from 1/8–1/2 in thick fillet welds.



## Plasma Basic Equipment

- Spectrum® machines utilize generator power.
- Quality cuts with an optional Spectrum® plasma cutter.
- Replace heavy oxy-fuel cylinders with a lightweight, fast and versatile Spectrum® plasma cutter.
- Most plasma units require a separate air source.

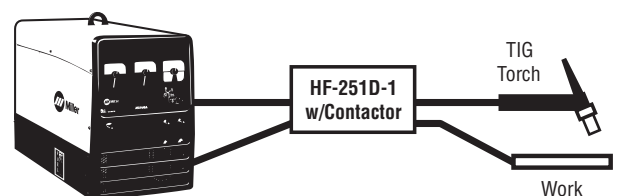


## TIG (GTAW) Basic Equipment

**TIG Adapter w/Extension** #195 350  
 • Required for Scratch Start TIG welding

**Dynasty® 200 Series**  
**HF251D-1** #042 388  
**Secondary Contactor** #041 969  
**RMLS-14 Switch** #129 337

- Excellent DC TIG capabilities
- Non-critical AC TIG welding (no remote amperage control available on the Bobcat)



# Ordering Information

| Equipment and Options                                                   | Stock No.                                                                                                      | Description                                                                                                                                                                                                                                          | Qty. | Price |
|-------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|-------|
| <b>Bobcat™ 225</b><br>(23 HP Kohler)                                    | #907 209<br>#907 209-01-1<br>#907 209-01-3<br>#907 209-01-4                                                    | Base machine, CC/CV, AC/DC 11,000 watts<br>With GFCI Receptacles<br>With CSA Approval<br>With No Battery                                                                                                                                             |      |       |
| <b>Bobcat™ 225</b><br>(23 HP Subaru)                                    | #907 210<br>#907 210-01-1<br>#907 210-01-2                                                                     | Base machine, CC/CV, AC/DC 11,000 watts<br>With GFCI Receptacles<br>With CSA Approval                                                                                                                                                                |      |       |
| <b>Bobcat™ 250</b><br>(23 HP Gas, 25 HP LP Kohler)                      | #907 211<br>#907 211-01-1<br>#907 211-01-3<br>#907 211-01-4<br>#907 211-01-8<br>#907 211-02-1<br>#907 211-03-1 | Base machine, CC/CV, AC/DC 11,000 watts<br>With GFCI Receptacles<br>With CSA Approval<br>With Electric Fuel Pump for High Altitude<br>With No Battery<br>With Battery Charger and GFCI Receptacles<br>With LP Gas, CSA Approval and GFCI Receptacles |      |       |
| <b>Bobcat™ 250</b><br>(23 HP Subaru)                                    | #907 212<br>#907 212-01-1<br>#907 212-01-3<br>#907 212-01-4<br>#907 212-01-5<br>#907 212-02-1                  | Base machine, CC/CV, AC/DC 11,000 watts<br>With GFCI Receptacles<br>With CSA Approval<br>With Electric Fuel Pump for High Altitude<br>With No Battery<br>With Battery Charger and GFCI Receptacles                                                   |      |       |
| <b>Bobcat™ 250 EFI</b><br>(Electronic Fuel Injection)<br>(25 HP Kohler) | #907 450<br>#907 450-00-1<br>#907 450-00-2<br>#907 450-00-3<br>#907 450-00-4                                   | Base machine, CC/CV, AC/DC 12,000 watts<br>With GFCI Receptacles<br>With CSA Approval<br>With Electric Fuel Pump for High Altitude<br>With No Battery                                                                                                |      |       |
| <b>Bobcat™ 250 Diesel</b><br>(19 HP Kubota)                             | #907 213<br>#907 213-01-1<br>#907 213-02-1<br>#907 213-01-3                                                    | Base machine, CC/CV, AC/DC 11,000 watts<br>With GFCI Receptacles<br>With Battery Charger and GFCI Receptacles<br>With No Battery (International)                                                                                                     |      |       |
| GFCI Protection                                                         | #195 496                                                                                                       | Field                                                                                                                                                                                                                                                |      |       |
| Electric Fuel Pump                                                      | #195 214                                                                                                       | Field. For gas models at high altitude                                                                                                                                                                                                               |      |       |
| Flame Arrestor Fuel Cap                                                 | #042 632                                                                                                       | Field. Gas models                                                                                                                                                                                                                                    |      |       |
| Spark Arrestor                                                          | #043 579                                                                                                       | Field                                                                                                                                                                                                                                                |      |       |
| Remote Oil Drain and Filter Kit                                         |                                                                                                                | Field. See page 5                                                                                                                                                                                                                                    |      |       |
| Adapter Cord, Full KVA                                                  | #300 517                                                                                                       | Field                                                                                                                                                                                                                                                |      |       |
| Full KVA Plug                                                           | #119 172                                                                                                       | Field                                                                                                                                                                                                                                                |      |       |
| Engine Tune-Up Kits                                                     |                                                                                                                | Field. See page 5                                                                                                                                                                                                                                    |      |       |
| TIG Adapter with Extension                                              | #195 350                                                                                                       | Field. Required for Scratch Start TIG welding w/Bobcats. (Order from Miller Service Parts)                                                                                                                                                           |      |       |
| <b>Accessories</b>                                                      |                                                                                                                |                                                                                                                                                                                                                                                      |      |       |
| All-Purpose Running Gear                                                | #300 396<br>#300 477                                                                                           | Gas/LP models, with inner tubes<br>Gas/LP models, with Never Flat™ tires                                                                                                                                                                             |      |       |
| All-Purpose Running Gear<br>with Protective Cage                        | #300 428<br>#300 478                                                                                           | Gas/LP models, with inner tubes<br>Gas/LP models, with Never Flat™ tires                                                                                                                                                                             |      |       |
| All-Terrain Running Gear EZ                                             | #300 572<br>#300 574                                                                                           | Gas models, with inner tubes. <i>Not for use with Gas Cylinder or LP Tank Mounting Assembly</i><br>Gas models, with Never Flat™ tires. <i>Not for use w/Gas Cylinder or LP Tank Mounting Assembly</i>                                                |      |       |
| All-Terrain Running Gear EZ<br>with Protective Cage                     | #300 573<br>#300 575                                                                                           | Gas models, with inner tubes. <i>Not for use w/Gas Cylinder or LP Tank Mounting Assembly</i><br>Gas models, with Never Flat™ tires. <i>Not for use w/Gas Cylinder or LP Tank Mounting Assembly</i>                                                   |      |       |
| Protective Cage<br>with Cable Holders                                   | #195 331<br>#300 052                                                                                           | Gas/LP models<br>Diesel model                                                                                                                                                                                                                        |      |       |
| Gas Cylinder Mounting Assembly                                          | #195 330                                                                                                       | Gas/Diesel models. <i>Not for use with LP Tank Mounting Assembly or All-Terrain RGs</i>                                                                                                                                                              |      |       |
| LP Tank Mounting Assembly                                               | #195 329                                                                                                       | LP models. <i>Not for use with Gas Cylinder Mounting Assembly or All-Terrain RGs</i>                                                                                                                                                                 |      |       |
| Protective Covers                                                       |                                                                                                                | See page 6                                                                                                                                                                                                                                           |      |       |
| Spectrum® Plasma Cutters                                                |                                                                                                                | See page 6                                                                                                                                                                                                                                           |      |       |
| Millermatic® Series MIG Welders                                         |                                                                                                                | See page 6                                                                                                                                                                                                                                           |      |       |
| SuitCase® Portable Wire Feeders                                         |                                                                                                                | See page 6                                                                                                                                                                                                                                           |      |       |
| Spoolmatic® 30A Spool Gun                                               | #130 831                                                                                                       | Requires WC-115A Control. See Lit. Index No. M/1.73                                                                                                                                                                                                  |      |       |
| WC-115A Control                                                         | #137 546-01-1                                                                                                  | See Lit. Index No. M/1.73                                                                                                                                                                                                                            |      |       |
| Dynasty® 200 Series TIG Welders                                         |                                                                                                                | See Lit. Index No. AD/4.8                                                                                                                                                                                                                            |      |       |
| HF-251D-1                                                               | #042 388                                                                                                       | 115 VAC. Requires Secondary Contactor                                                                                                                                                                                                                |      |       |
| Secondary Contactor                                                     | #041 969                                                                                                       |                                                                                                                                                                                                                                                      |      |       |
| HWY -1000 Trailer                                                       | #195 013                                                                                                       |                                                                                                                                                                                                                                                      |      |       |
| Cable Tree                                                              | #195 023                                                                                                       |                                                                                                                                                                                                                                                      |      |       |
| Lunette Eye 2-1/2 in (64 mm)                                            | #043 824                                                                                                       |                                                                                                                                                                                                                                                      |      |       |

Date:

Total Quoted Price:

Distributed by:

