Bobcat™ 250 Diesel

Industrial Applications
- Maintenance
- Repair
- Farm/ranch
- Fabrication
- Structural steel work
- Use as a stand-alone generator

Processes
- Stick (SMAW)
- MIG (GMAW)
- Flux-cored (FCAW)
- 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

Output Range
- AC stick/TIG: 40–250 A
- DC stick/TIG*: 40–250 A
- MIG/flux-cored: 17–28 V

*DC TIG available above 80 amps.

Generator Power Output Rated at 104°F (40°C)
- 11,000 watts peak, 9,500 watts continuous

Accuracy—Not Inflated Generator Power

Rugged welder/generator is great for stick and flux-cored welding.
Designed for maintenance/repair operations, construction, farm, ranch and generator use.

The most popular welder/generator in the industry, the Bobcat is:
- Quieter to operate
- Smaller and lighter
- Easier to maintain

Easy maintenance. With front panel maintenance displays, you know when your equipment needs to be serviced.

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.

Accu-Rated™—not inflated generator power. Our Accu-Rated 11,000 watts of usable peak power is delivered for a minimum of 30 seconds. See page 2 for more information.

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

Front panel fuel and sight gauges provide convenient fuel level indication.

Note: Diesel engine will shut down before system runs out of fuel making restarts easy.

Smaller and lighter design.* Bobcat welder/generators 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 safely around jobsites—even with weld cables and running gear attached.

*Compared to previous model.

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

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An ITW Welding Company
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Appleton, WI 54912-1079 USA

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

MillerWelds.com
For example, if you’re welding at 125 amps you also have 5,200 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 V receptacle. See owner’s manual for additional information.

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
Miler (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
Refrigerator/Freezer         2,200           700
Sump Pump                    1,300           800
Millermatic® 212 Auto-Set™ MIG Welder (230 V) 6,500 6,500
Spectrum® 625 X-TREME™ (30 A, 230 V, 1/2-inch cut) 6,900 6,900

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 three to seven times the listed wattage when starting. All data listed is approximate — check your tool/appliance for specific wattage requirements.

The Bobcat™ Competitive Advantage

Make deadlines, not excuses.

• 68 percent of service technicians, managers and owners, recommend the Bobcat over the competition.

• 98 percent of current owners are “satisfied to very satisfied” with the Bobcat.*

Technician Recommendations

The fully enclosed case design virtually eliminates hot air recirculation when machine is mounted in tight spots.

Louver-directed air flow keeps the temperature of internal parts cool for maximum performance and extended life.

Self-cooling stator barrel completely encloses and protects its generator from the dirtiest and harshest environments.

Directed airflow improves cooling for long engine and component life.

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

* Based on an independent survey of thousands of Bobcat owners.
**Specifications (Subject to change without notice.)**

<table>
<thead>
<tr>
<th>Specifications</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Welding Mode</td>
<td>CC/AC CC/DC</td>
</tr>
<tr>
<td>Process</td>
<td>Stick/TIG MIG/FCAW</td>
</tr>
<tr>
<td>Amp/Volt Ranges</td>
<td>40–250 A 17–28 V</td>
</tr>
<tr>
<td>Rated Weld Output at 104°F (40°C)*</td>
<td>250 A at 25 V, 100% duty cycle</td>
</tr>
<tr>
<td>Single-Phase Generator Power</td>
<td>Peak: 11,000 watts Continuous: 9,500 watts 120/240 V, 88/44 A, 60 Hz</td>
</tr>
<tr>
<td>Sound Levels at Rated Output, 7 m (23 ft.)</td>
<td>80 dB (104.9 Lwa)</td>
</tr>
<tr>
<td>Dimensions</td>
<td>H: 28 in. (711 mm) H: 34.375 in. (873 mm) (to top of exhaust) W: 20 in. (508 mm) D: 45.375 in. (1,153 mm)</td>
</tr>
<tr>
<td>Net Weight**</td>
<td>638 lb. (289 kg)</td>
</tr>
</tbody>
</table>

*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.)

<table>
<thead>
<tr>
<th>Engine Brand and Warranty</th>
<th>Horsepower (HP)</th>
<th>Type</th>
<th>Weld Speed</th>
<th>Idle Speed</th>
<th>Fuel Capacity</th>
<th>Oil Capacity</th>
<th>Standard Shutdowns</th>
</tr>
</thead>
<tbody>
<tr>
<td>Kubota D722, 2-year limited North American warranty</td>
<td>19 hp at 3,600 rpm</td>
<td>Three-cylinder, industrial liquid-cooled, diesel</td>
<td>3,600 rpm</td>
<td>2,450 rpm</td>
<td>12 gal. (45 L)</td>
<td>3.4 qt. (3.2 L)</td>
<td>High coolant temperature/low oil pressure/low fuel</td>
</tr>
</tbody>
</table>

### Function and Benefit Guide

1. **Maintenance display** provides fuel level, engine hours and oil change interval information; plus 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.** Four stick/TIG and two wire ranges are available for output control. Stick/TIG ranges are designed for electrode diameters (3/32, 1/8, 5/32 and 3/16 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 generator-only use.
5. **Engine control switch** is used to start the engine and then select between run/idle and run positions.
6. **Glow plugs** assist in cold weather starting.
7. **120/240 V receptacle with circuit breaker.**
   (For matching plug, order 119172.)
8. **120 V GFCI receptacles with circuit breakers.**
**Genuine Miller® Options**  *Available as factory option. See ordering information on back page.*

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

- **Cold Weather Kit**  301115  **Field**
  Includes block heater for improved starting, and a fuel heater for optimal filtration in cold temperatures.

- **Spark Arrestor**  043579  **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.

- **Order the following from Miller Service Parts.**

  - **Diesel Engine Filter Kit**  259935  **Field**
    Includes air filter, oil filter, fuel pre-filter and primary fuel filter.

**Genuine Miller® Accessories**

- **All-Purpose Running Gear**  300477
  Includes two heavy-duty 15-inch Never Flat™ tires, two 8-inch rubber swivel casters and a heavy-duty handle. Recommended for all surfaces and applications, and is easy to move around the jobsite.

- **Protective Cage with Cable Holders**  195331
  Rugged cage with cable holders protects your investment. Can be used with all-purpose running gear, gas cylinder mounting assembly, or with trailer.
  *Note: Not for use with protective cover.*

- **Protective Cover**  301099
  Heavy-duty, water-resistant and mildew-resistant covers protect and maintain the finish of the welder.
MIG/Flux-cored Welding

Millermatic® 141 907612
See literature DC/12.42
Millermatic® 211 907614
See literature DC/12.58
Millermatic® 212 Auto-Set™ 907405
See literature 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 auxiliary power.

SuitCase® X-TREME™ 8VS Wire Feeder 951582
SuitCase® X-TREME™ 12VS Wire Feeder 951543

Lightweight, voltage-sensing wire feeders include secondary contactor, gas valve, drive roll kit and Bernard™ BTB Gun 300 A. See literature M/6.42.

Stick (SMAW) Welding

Weld Leads
2/0 Stick Cable Set, 50 ft. (15 m) 173851
Consists of 50-foot (15 m) 2/0 electrode cable with holder, and 50-foot (15 m) work cable with clamp. 350 A, 100% duty cycle.

2/0 Stick Cable Set, 100/50 ft. (30.5/15 m) 043952
Consists of 100-foot (30.5 m) 2/0 electrode cable with holder, and 50-foot (15 m) work cable with clamp. 300 A, 100% duty cycle.

TIG (GTAW) Welding

Dynasty® 210 Series
For portable AC/DC TIG. See literature AD/4.81.

Plasma Cutting

Spectrum® 375 X-TREME™ and 625 X-TREME™ shown.

Spectrum® 375 X-TREME™ 907529
See literature PC/9.2
Spectrum® 625 X-TREME™ 907579
See literature PC/9.6
Spectrum® 875 907583
See literature PC/9.8.

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

<table>
<thead>
<tr>
<th>Model</th>
<th>Gross Axle Weight Rating</th>
<th>Gross Vehicle Weight Rating</th>
<th>Net Payload</th>
<th>Height of Bed</th>
<th>Road Clearance</th>
<th>Track (center to center of tires)</th>
<th>Standard Tires (standard rating or P-size rating)</th>
<th>Dimensions</th>
<th>Net Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>HWY-Mid Frame</td>
<td>1,605 lb. (728 kg)</td>
<td>1,424 lb. (646 kg)</td>
<td>1,424 lb.</td>
<td>19.5 in. (495 mm)</td>
<td>8 in. (203 mm)</td>
<td>46 in. (1,168 mm)</td>
<td>ST175/80D-13 Load Range C</td>
<td>Length: 101 in. (2,565 mm) Width: 55 in. (1,397 mm)*</td>
<td>181 lb. (82 kg)</td>
</tr>
</tbody>
</table>

*Width at outside of fenders.*

**Mounting Specifications**

For truck installation information, visit MillerWelds.com/truck

**Cable Tree 043826**
Provides an area to conveniently wrap weld cables and extension cords.

**Dual Hitch 301441**
Combination 2-inch (50 mm) ball hitch and 3-inch (76 mm) lunette eye in one reversible assembly.

**2-In-1 Document/Fire Extinguisher Holder 301236**
Stores documents and holds a five-pound fire extinguisher.

Note: Holder shown mounted on trailer. Fire extinguisher not included.

**Trailer and Hitches** (Note: Trailers are shipped unassembled.)

**HWY-Mid Frame Trailer 301438**
1,424-pound (646 kg) capacity highway trailer with welded steel tubing frame, heavy-duty axle with roller bearing hubs and leaf-spring suspension. Includes jack stand, fenders, lights, and dual hitch with 2-inch (50 mm) ball hitch and 3-inch (76 mm) lunette eye.

**Dual Hitch 301441**
Combination 2-inch (50 mm) ball hitch and 3-inch (76 mm) lunette eye in one reversible assembly.
### Typical Installations

#### 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 2,200 watts of power to run tools, lights etc.

#### Flux-cored (FCAW) Basic Equipment
**SuitCase® X-TREME® 8VS** 951582
**SuitCase® X-TREME® 12VS** 951543
- 275 amps at 25 volts, 60 percent duty cycle (250 amps at 28 volts, 100 percent 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** 951582
**SuitCase® X-TREME® 12VS** 951543
**Millermatic® 141** 907612
**Millermatic® 211** 907614
**Millermatic® 212 Auto-Set™** 907405
- Use .035-inch solid wire with 75/25 argon mixed gas for welding down to 16-gauge steel.
- Use .045-inch solid wire with a minimum of 80 percent argon gas for spray transfer on 1/8-inch and thicker material (flat and horizontal position).
- Millermatic machines utilize generator power.

#### Aluminum MIG (GMAW) Basic Equipment
**Spoolmate® 3035** 195016
**SGA 100C** 043857
**Spoolmatic® 30A** 130831
**WC-115A Control** 137546011
- Excellent results from 1/8–1/2 inch 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 with extension** 195350
- Required for scratch start TIG welding.
### Ordering Information

<table>
<thead>
<tr>
<th>Equipment and Options</th>
<th>Stock No.</th>
<th>Description</th>
<th>Qty.</th>
<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bobcat™ 250 Diesel</td>
<td>907565</td>
<td>Kubota engine with GFCI Receptacles</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Field Options** Options listed below can be added to the above packages. Installation is required.

- **GFCI Receptacles** 300975
- **Cold Weather Kit** 301115
- **Spark Arrestor** 043579
- **Full KVA Adapter Cord** 300517
- **Full KVA Plug** 119172
- **Diesel Engine Filter Kit** 259935
  - *Order from Miller Service Parts*

**Accessories**

- **All-Purpose Running Gear** 300477
  - With Never Flat™ tires
- **Protective Cage with Cable Holders** 195331
  - *Not for use with protective cover*
- **Protective Cover** 301099

**MIG/Flux-cored Welding**

- **Millermatic® Series MIG Welders** See page 5
- **SuitCase® X-TREME™ Wire Feeders** See page 5
- **Spoolmatic® 30A Spool Gun** 130831
  - Requires WC-115A Control. See literature M/1.73
- **WC-115A Control** 137546011
  - See literature M/1.73
- **Spoolmate™ 3035 Spool Gun** 195016
  - See literature M/1.5
- **SGA 100C Control** 043857
  - See literature M/1.5
- **Heavy-Duty Barrel for Spoolmate 3035** 195375
  - See literature M/1.5

**Stick Welding**

See page 5

**TIG Welding**

See page 5

**Plasma Cutting**

See page 5

**Trailers and Hitchs**

- **HWY-Mid Frame Trailer** 301438
  - Trailer with lights, fenders and dual hitch. For highway use
- **Cable Tree** 043826
  - Trailer-mounted cable holder
- **Dual Hitch** 300831
  - Combination ball hitch and lunette eye in one reversible assembly
- **2-In-1 Document/Fire Extinguisher Holder** 301236
  - Stores documents and holds a five-pound fire extinguisher

Date: Total Quoted Price:

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