

Bobcat™ 225 and 250

Gas or LP Engine-Driven
Welder/AC Generator 

Quick Specs

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 (250 model only, 3/16 in. carbons)
Air plasma cutting and gouging with optional Spectrum® models

Output Range

	225	250	250 EFI
AC stick/TIG	60–160 A	40–250 A	40–250 A
DC stick/TIG*	40–225 A	40–250 A	40–250 A
MIG/flux-cored	19–28 V	17–28 V	17–28 V

*DC TIG available above 80 amps.

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

225/250: 11,000 watts peak
225/250: 9,500 watts continuous
250 EFI: 12,000 watts peak
250 EFI: 10,500 watts continuous

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

Rugged welder/generators are 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
- More fuel efficient with EFI
- Easier to maintain



Bobcat 250 EFI model shown.



Safer, more productive jobsite



Easier mobility and uses less truck space and payload

Easier Maintenance

With its intuitive design, the daily maintenance of our Bobcat welder/generators is faster and easier.



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



Miller Electric Mfg. LLC

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MillerWelds.com



The Bobcat™ Advantage

Quieter and better sound*

Significant improvements in sound level and quality offer better jobsite communication, which provides a safer, more efficient working environment for you and your crew. Bobcat welder/generators 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.



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.

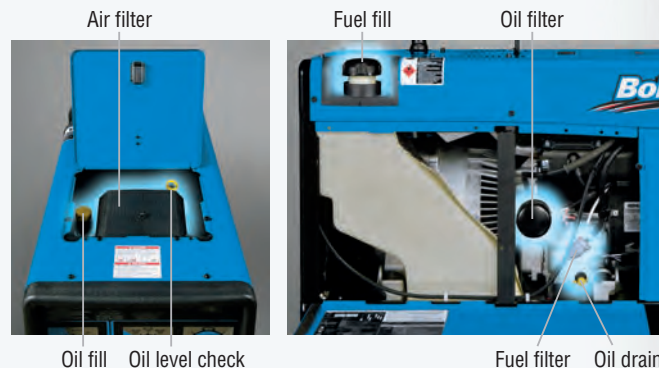


**Compared to previous model*

Easier maintenance*

With its intuitive design, the daily maintenance of our Bobcat welder/generators is faster and easier. With front panel maintenance displays, you know when your equipment needs to be serviced. And 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



Designed for reliability

From Appleton, Wis. USA, our welder/generators 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 iron generator 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 welder/generator 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.

Bobcat™ 250 Additional Features

- Front panel fuel and sight gauges provide convenient fuel level indication
- Smoother weld output and better generator power while welding
- More weld output than 225-amp welder generators — 72 percent more power for MIG/flux-cored, 67 percent more for AC welding, and 11 percent more for DC stick



Bobcat 250 recommended option

Electronic fuel injection (EFI)

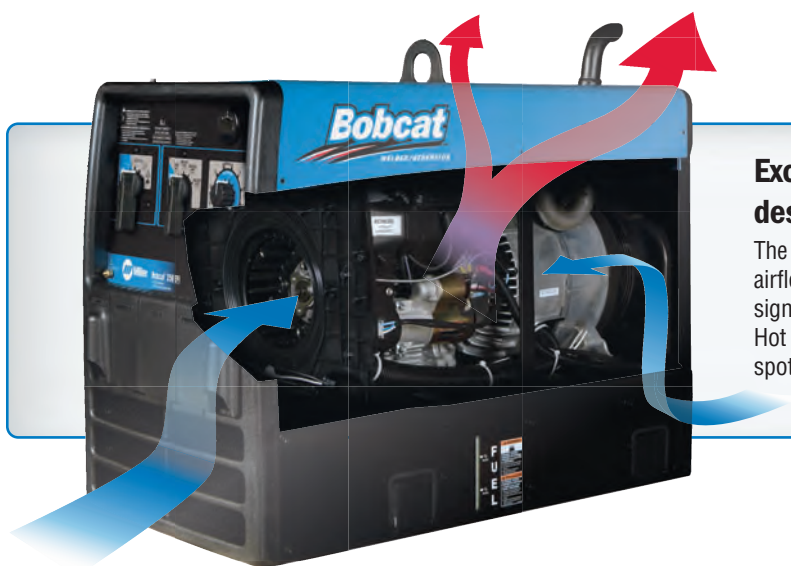
EFI gas engines optimize the air/fuel ratio for all engine speeds and engine loads, resulting in lower operational costs, fewer emissions, longer runtimes and better performance when compared to carbureted models. The payback from fuel savings alone is a matter of months.



EFI advantages (vs. carburetor models)

- 12,000 watts of generator power
- Up to 27 percent better fuel efficiency — save up to \$1,000 per year in fuel and extend runtimes by as much as 2.5 hours per tank
- Fast, easy starts in all climates — no choke required
- Reliable operation, even with infrequent use — less prone to fuel deterioration
- Fewer emissions — 27 percent less CO and 33 percent lower HC+NOx levels

Reversed Generator Airflow



Exclusive engine and generator packaging 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.

The Bobcat™ Generator Power Advantage

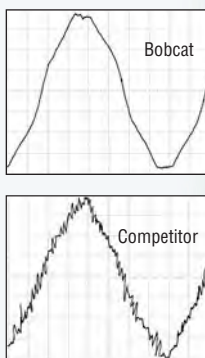
Accu-Rated™ — not inflated generator power

Our 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.

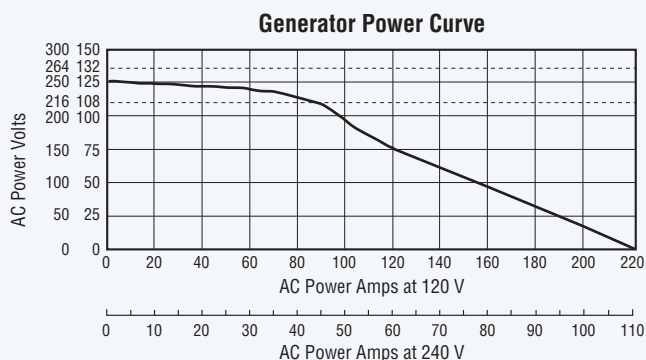


Smooth power — not spike power

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



Waveform Comparison



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

Typical equipment power usage

Bobcat welder/generators 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
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.

Specifications (Subject to change without notice.)



Model	Welding Mode	Process	Amp/Volt Ranges	Rated Weld Output at 104°F (40°C) ²	Single-Phase Generator Power	Sound Levels at Max. Load/150 A	Dimensions	Net Weight ³
Bobcat 225	CC/AC	Stick/TIG	60–160 A	150 A at 25 V, 100% duty cycle	Peak: 11,000 watts Continuous: 9,500 watts 120/240 V, 88/44 A, 60 Hz	73.5 dB/72 dB	H: 28 in. (711 mm) H: 32.75 in. (832 mm) (to top of exhaust) W: 20 in. (508 mm) D: 40.5 in. (1,029 mm)	485 lb. (220 kg)
	CC/DC	Stick/TIG ¹	40–225 A	225 A at 25 V, 100% duty cycle				
	CV/DC	MIG/FCAW	19–28 V	200 A at 20 V, 100% duty cycle				
Bobcat 250	CC/AC	Stick/TIG	40–250 A	225 A at 25 V, 100% duty cycle 250 A at 25 V, 60% duty cycle	Peak: 11,000 watts Continuous: 9,500 watts 120/240 V, 88/44 A, 60 Hz EFI Model Peak: 12,000 watts Continuous: 10,500 watts	72.5 dB/72 dB	H: 28 in. (711 mm) H: 32.75 in. (832 mm) (to top of exhaust) W: 20 in. (508 mm) D: 40.5 in. (1,029 mm)	501 lb. (227 kg)
	CC/DC	Stick/TIG ¹	40–250 A	250 A at 25 V, 100% duty cycle				
	CV/DC	MIG/FCAW	17–28 V	250 A at 28 V, 100% duty cycle 275 A at 25 V, 60% duty cycle				

Note: Derate outputs up to five percent when using LP fuel. 1) DC TIG available above 80 amps. 2) Rated at sea level. 3) Net weight without fuel.

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

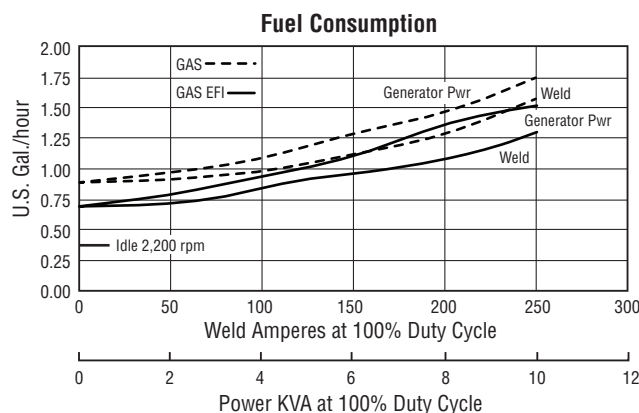
Engine Specifications (Engines warranted separately by the engine manufacturer.)

Model	Engine Brand and Warranty	Horsepower (HP)	Type	Weld Speed	Idle Speed	Fuel Capacity	Oil Capacity	Standard Shutdowns
Bobcat 225 and 250	Kohler CH730, 3-year warranty	Gas: 23.5 hp at 3,600 rpm LP: 21 hp at 3,600 rpm	Twin-cylinder, four-cycle overhead valve, industrial air-cooled, gasoline* (carburetor or EFI) or LP**	3,600 rpm	2,300 rpm	12 gal. (45 L)	1.5 qt. (1.4 L)	Low oil pressure
Bobcat 250 EFI	Kohler ECH730, 3-year warranty	23 hp at 3,600 rpm						

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

**Hose and LP Tank Mounting Assembly and setup are required.

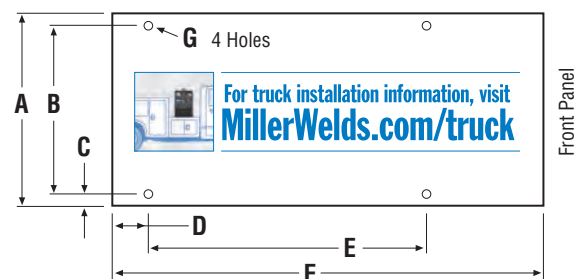
Performance Data



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 (gas) of operation.
- Welding at 150 A, 40% duty cycle uses approximately 3/4 gallon per hour — about 16 hours of operation (gas).
- Under a continuous load of 4,000 watts of generator power, the Bobcat would run for about 14 hours (gas) of operation.

Mounting Specifications



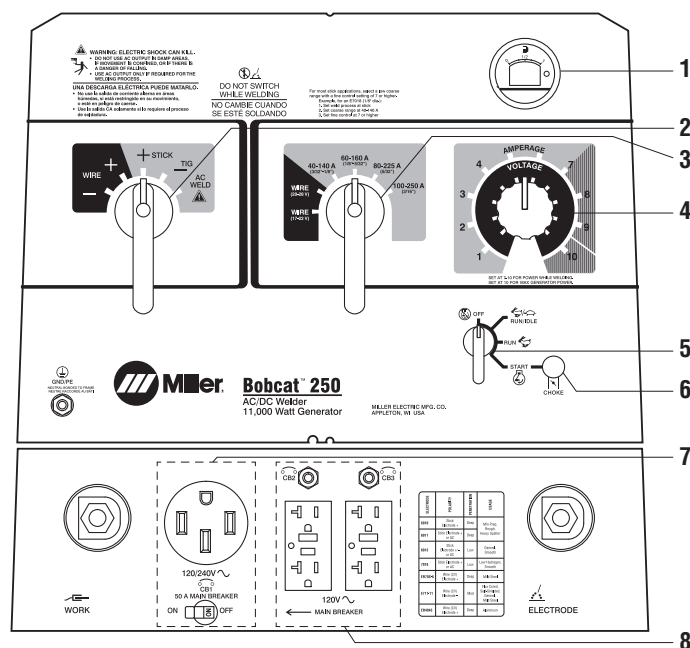
- A. 20 in. (508 mm)
- B. 16.5 in. (419 mm)
- C. 1.75 in. (44.5 mm)
- D. 5.12 in. (130 mm)
- E. 22.3 in. (566 mm)
- F. 40.32 in. (1,024 mm)
- G. .406 in. (10.3 mm) diameter

Choose the Right Bobcat™ Engine Drive

Sound Levels	Bobcat 225	UPGRADE	Bobcat 250
At Maximum Load / At 150 Amps	73.5 dB / 72 dB	➡	72.5 dB / 72 dB
Sound Quality	Good	➡	Very Good
Fuel System			
Typical Runtime per 12-Gallon Tank	13 hours	➡	13 hours / 15.5 hours with EFI
Efficiency	Good	➡	Good / Very Good with EFI
Type	Gasoline		Gasoline or LP
Delivery	Carburetor		Carburetor or EFI available
Generator			
Peak Watts	11,000 watts	➡	11,000 / 12,000 watts with EFI
Clean Power Quality	Very Good/Excellent		Very Good/Excellent
Power While Welding	Fair/Good — With voltage control set near maximum	➡	Good — Easier to fine-tune arc with voltage control near maximum
Weld Performance			
Stick	Good/Very Good	➡	Very Good
MIG — Wire (solid/FCAW), Steel	Fair (.035 in.)	➡	Good (.035–1/16 in.)
MIG — Wire, Aluminum with Spool Gun	Fair/Good (add WC-115A with contactor)	➡	Very Good (add WC-115A with contactor)
DC TIG (steel)	Good	➡	Very Good
AC Weld	70–150 amps	➡	40–250 amps
Carbon Arc Gouging	N/A	➡	Good (carbons: rated 3/16 in.)
Dimensions			
Size (H x W x D)	28 x 20 x 40.5 in.		28 x 20 x 40.5 in.
Weight	485 lb.		501 lb.
Key Features			
Maintenance Displays	Hours/Oil change	➡	Hours/Oil change/Fuel

Note: See MillerWelds.com or the Full-line Catalog to compare to Trailblazer models.

Function and Benefit Guide



- Maintenance display** provides fuel level (250 models only), engine hours and oil change interval information.
- 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 (on 225 model, weld process selector switch is combined with coarse range control).
- Coarse range control**
225 model — Three DC stick/TIG, one AC TIG, and one wire range are available for output control. Stick ranges are designed for electrode diameters (3/32, 1/8 and 5/32 inch) making these models **very easy to set**.
250 model — Four stick/TIG and two wire ranges are available for output control. Stick ranges are designed for electrode diameters (3/32, 1/8, 5/32 and 3/16 inch) making these models **very easy to set**.
- 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.
- Engine control switch** is used to start the engine and then select between auto idle and high speed lock positions.
- Engine choke control** is used for easy engine starting.
Note: No choke necessary on EFI models.
- 120/240 V receptacle with circuit breaker.**
(For matching plug, order 119172.)
- 120 V GFCI receptacles with circuit breakers.**

Genuine Miller® Options *Available as factory option. See ordering information on back page.

LP Gas*

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

Note: Requires hose and LP tank mounting assembly 300917.

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.



Remote Oil Drain and Filter Kit 300923 Field
Front mount for Kohler. Makes servicing easy when engine drive is mounted in tight spots.



Female
Receptacle



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.

Engine Tune-Up Kits

230015 Field. Kohler CH730 (gas)

246115 Field. Kohler ECH730 (EFI gas)

252838 Field. Kohler CH730 (LP)

Includes spark plugs and engine filters.

Genuine Miller® Accessories



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



Multi-Terrain Running Gear

300913 Gas/LP, with inner tubes

300914 Gas/LP, with 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, and is easy to move around the jobsite.



Hose and LP Tank Mounting Assembly 300917 LP

Designed for use with multi-terrain running gear, protective cage, or by itself. Includes bracket and clamp to

mount 33- and 43-pound tanks horizontally, and hose with fittings to convert.

Note: Not for use with gas cylinder mounting assembly. Not recommended for use with protective cover.



Off-Road Running Gear

300909 Gas/LP, with inner tubes

300910 Gas/LP, with Never Flat tires

Includes four

heavy-duty 15-inch tires and a rugged handle to provide maximum maneuverability.



Protective Cage with Cable Holders

300921 Gas/LP

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.



Protective Covers

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

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

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



Off-Road Running Gear with Protective Cage and Never Flat Tires

300912 Gas/LP

Running gear and rugged cage with

cable holders protects your investment and is easy to move around the jobsite.



Gas Cylinder Mounting Assembly

300918 Gas

Designed for use with multi-terrain running gear, protective cage, or by itself. Includes base tray with bottle

bracket, vertical support rack and safety chain.

Note: Not for use with LP tank mounting assembly.

Not recommended for use with protective cover.

Genuine Miller® Accessories (Continued)

MIG/Flux-cored Welding



Millermatic 141 and 211 shown.

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.



Spoolmatic® 30A Spool Gun 130831
Air-cooled, 200-amp, one-pound spool gun for aluminum MIG. See literature M/1.73.

Requires WC-115A control (137546011).



Spoolmate™ 3035 Spool Gun 195016
Use with SGA 100C control and heavy-duty barrel. Spool gun for aluminum and

other wires. Four-inch spools; .023–.035 inch (0.6–0.9 mm) aluminum, steel and stainless steel. Rated at 150 amps, 60 percent duty cycle with 20-foot (6 m) cable assembly.

SGA 100C Control 043857

SGA with contactor required to connect Spoolmate 3035 to CV engine drive. Includes 10-foot (3 m) 115 V power cable and plug, 6-foot (1.8 m) interconnecting cable, and 5-foot (1.5 m) gas hose.

Heavy-Duty Barrel for Spoolmate 3035 195375

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

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.

Multiprocess Welding



Multimatic™ 200 907518

Portable, all-in-one multiprocess package weighs only 29 pounds (13.2 kg), and features excellent arc characteristics. Exclusive multi-voltage plug (MVP™) provides flexibility to plug into 120- or 240-volt power. Take it anywhere you need to MIG, TIG or stick weld. See literature DC/12.57.

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).

Trailers and Hitches



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.

Note: Trailer is 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.

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

Ordering Information

Equipment and Options	Stock No.	Description	Qty.	Price
Bobcat™ 225	907498001 907498	Kohler engine, base model Kohler engine with GFCI receptacles		
Bobcat™ 250	907500001 907500 907500002	Kohler engine, base model Kohler engine with GFCI receptacles Kohler engine with electric fuel pump		
Bobcat™ 250 EFI	907502	Kohler engine, base model		
Bobcat™ 250 LP	907504	Kohler engine with GFCI receptacles		
Field Options <i>Options listed below can be added to the above packages. Installation is required.</i>				
GFCI Receptacles	300975			
Electric Fuel Pump	300976	Recommended for gas engine operations at altitudes above 5,000 feet		
Spark Arrestor	300924			
Remote Oil Drain and Filter Kit	300923	Front mount for Kohler		
Full KVA Adapter Cord	300517			
Full KVA Plug	119172			
Engine Tune-Up Kits		See page 6. <i>Order from Miller Service Parts</i>		
Accessories				
Off-Road Running Gear	300909 300910	Gas/LP models, with inner tubes Gas/LP models, with Never Flat™ tires		
Off-Road Running Gear with Protective Cage	300912	Gas/LP models, with Never Flat™ tires.		
Multi-Terrain Running Gear	300913 300914	Gas/LP models, with inner tubes Gas/LP models, with Never Flat™ tires		
Protective Cage with Cable Holders	300921	Gas/LP models		
Gas Cylinder Mounting Assembly	300918	Gas models. <i>Not for use with LP tank mounting assembly.</i> <i>Not recommended for use with protective cover</i>		
Hose and LP Tank Mounting Assembly	300917	LP models. <i>Not for use with gas cylinder mounting assembly.</i> <i>Not recommended for use with protective cover</i>		
Protective Covers		See page 6		
MIG/Flux-cored Welding				
Millermatic® Series MIG Welders		See page 7		
SuitCase® X-TREME Wire Feeders		See page 7		
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 7		
TIG Welding		See page 7		
Multiprocess Welding		See page 7		
Plasma Cutting		See page 7		
Trailers and Hitches				
HWY-Mid Frame Trailer	301438	Trailer with lights, fenders and dual hitch. For highway use		
Cable Tree	043826	Trailer-mounted cable holder		
2-In-1 Document/Fire Extinguisher Holder	301236	Stores documents and holds a five-pound fire extinguisher		

Date:

Total Quoted Price:

Distributed by:

