Bobcat[®] 225 NT

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Engine-Driven Welder/ AC Generator



Industrial Applications

Structural Steel Work General Maintenance Farm/Ranch Applications 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

Generator Power Output Rated at 104° F

10,000 Watts Peak, 9500 Watts Continuous

Weld Output Rated at 104° F

For DC Stick210 Amps at 25 Volts, 100% Duty CycleFor AC Stick/TIG225 Amps at 25 Volts, 100% Duty CycleFor FCAW/MIG (CV)200 Amps at 20 Volts, 100% Duty Cycle

Output Range

For DC Stick 50–210 Amps For FCAW/MIG (CV) 17–28 Volts

Weight 512 lb (232 kg)

Rotatable exhaust can

The Power of Blue[®].

20 HP Kohler Command

Quick

Specs

overhead valve engine provides dependable all-weather starts, exceptional fuel efficiency, pressure lubrication, no valve adjustment, as well as reduced oil consumption and emissions.

Heavy-duty construction! Engine, generator barrel, electrical switches and other components are protected against accidental impact while allowing plenty of air to cool and prolong the life of the engine.

10,000-watt (peak) power output provides plenty of power to run power tools and lights.

Standard **circuit breaker protection** protects tools and the generator itself.





Fastex[™] tool-free oil drain system combined with hour meter makes service a snap.

Patented 10-gallon "smart" fuel tank has a reservoir design that minimizes the chance of fuel backflow. Large capacity means more running time before refueling. Standard fuel gauge is accurate and easy to read. Additional fuel sight gauges on both sides.

Optional No. 27 Hand Running Gear provides maneuverability.



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





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Specifications (Subject to change without notice.)



Welding Mode	Max. Open- Circuit Voltage	Amp/Volt Ranges	Rated Weld Output at 100% Duty Cycle at 104° F	Generator Power	Dimensions	Weight*
CC/AC	80	50-100 A	225 A at 25 V	Peak: 10,000 watts	H: 33 in (838 mm)	512 lb (232 kg)
CC/DC	72	70-150 A 85-225 A (210 DC)	210 A at 25 V	Continuous: 9500 watts, 70/35 A, 120/240 VAC,	W: 18-3/4 in (476 mm) D: 45-1/2 in (1156 mm)	
CV/DC	33	17–28 V	200 A at 20 V	60 Hz while not welding		

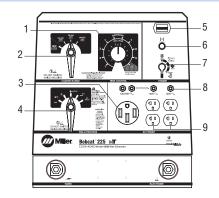
Rated output decreases approximately 3.5% per 1000 ft (305 m) above sea level. The rated output of any engine-driven welder/generator decreases as temperatures rise. *Net weight without fuel. Add 30 lb for shipping weight.

Engine Specifications (Subject to change without notice.)

Engine Brand	Horsepower (HP)	Туре	Weld Speed	Idle Speed	Fuel Capacity	Oil Capacity
Kohler: 3 year mfg. warranty	20 HP at 3600 RPM	V-Twin cylinder, 4-cycle, OHV, industrial, air-cooled, gasoline	3600 RPM	2250 RPM	10 gal (38 L)	1.75 qt (1.7 L), 2 qt (1.9 L) with filter; every 100 hrs for oil, every 200 hrs for oil filter

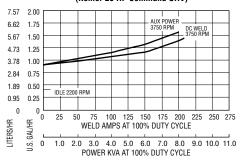
(SP CSA Pending. See ordering information on back.

Control Panel



Performance Data

FUEL CONSUMPTION (Kohler 20 HP Command OHV)



SIMULTANEOUS WELDING AND POWER

Weld Current In Amperes	Total Power In Watts	120 V Receptacle Amperes	240 V Receptacle Amperes
210	1300	10	5
140	5200	42	21
90	8400	70	35

1. Fine Adjust Control

- 2. Coarse Adjust Switch
- 3. 50 A, 120/240 VAC Receptacle*
- 4. Weld Process Selector Switch
- 5. Engine Hour Meter
- 6. Engine Choke Control
- 7. Engine Control Switch
- **8.** Auxiliary Power Circuit Breakers
- **9.** 20 A, 120 VAC Duplex Receptacles
- (Optional GFCI Circuit Breakers available)

*For matching plug, order #119 172

TYPICAL CONTRACTOR TOOLS POWER USAGE

Tool	Starting Watts	Running Watts	
Table Saw, 10 inch	6,300	1,800	
Air Compressor, 1-1/2 HP	8,200	2,200	
Flood Lights			
Metal Halide	313	250	
Mercury	1000	-	
Vapor	1,250	1,000	
Submersible Pump, 400 gph	600	200	
Centrifugal Pump, 900 gph	900	500	
High Pressure Washer, 1 HP	6,100	1,600	
Wet & Dry Vac, 1.7 HP	900	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 3-7 times the listed wattage when starting. All data listed is approximate —check your tool/appliance for specific wattage requirements.

Genuine Miller Options

GFCI Protection*

Ground Fault Circuit Interrupters are required on some construction sites. Factory option contains two GFCI 120 VAC duplex receptacles. (240 VAC GFCI receptacle not required).

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.

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

FA-7.5 Flame Arrestor Fuel Cap #042 632 Field

Gasoline Red. Lockable for added protection.



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



Genuine Miller Accessories



No. 27 Hand Running Gear #043 014 Rugged, lightweight design provides maximum maneuverability. Comes with standard handle, two large 480/400 x 8 pneumatic tires, two 5 in rubber swivel casters, adjustable axle and easy-to-read instructions.



No. 4B Running Gear #041 930 Includes two rear 480/400 x 8 pneumatic tires, two 8 in (203 mm) solid-rubber-tired front wheels and a 32 in (813 mm) handle.

No. 27CR Cylinder Rack #043 040

Designed for use with No. 4B or No. 27RG. Consists of base tray with bottle bracket, and vertical support rack with safety chain.



Protective Cover #195 136 Blue, with logo.

Attractive, mildewresistant, odor-free, waterproof cover protects your machine's

finish and includes easy-off handles.

No. 2WA Stick Accessory Pkg. #040 039 Consists of 35 ft (10.7 m) No. 2 electrode cable with insulated electrode holder and lug, 30 ft (9.1 m) No. 2 work cable with clamp and lug, welding helmet, and wire scratch brush.

Plasma Cutting



 Spectrum[®] Thunder
 #903 741

 See Lit. Index No. PC/13.0
 Spectrum[®] 375 CutMate[™]
 #903 891

 See Lit. Index No. PC/9.1
 #903 891

Spectrum® 625 #907 058 See Lit. Index No. PC/9.5

MIG (GMAW) or Flux Cored (FCAW) Welding



SuitCase™ 12VS Wire Feeder #194 941 Lightweight, portable, voltage-sensing wire feeders include secondary contactor

and gas valve. Requires drive roll kit. See Lit. Index No. M/6.4.

3045 FC #194 919

Economical and portable feeder for self-shielding Flux Cored wire welding on 16 ga – 3/8 in steel. See Lit. Index No. M/6.6.

Spoolmatic® 30A #130 831

Rated 200 amps at 100% duty cycle. Extend the weld pro-

cess range by adding a portable 1 lb spool gun for aluminum and .035–.045 steel wire MIG. Includes 30 ft (9.1 m) cable assembly. WC-115A with contactor required. See Lit. Index No. M/1.5.

WC-115A Weld Control #137 546-01-1

Provides control circuitry to operate spool gun from Miller and competitive enginedriven products. Includes contactor. *Note: Contactor Kit (#137 548) available for field installation in existing WC-115A Weld Controls having no contactor*.



Spoolmate™ 3035 #195 016

Rated 150 amps at 60% duty cycle. Extend the weld process range by adding a

handy portable system for aluminum and small wire MIG. Includes 20 ft (6.0 m) cable assembly. SGA 100C required. See Lit. Index No. M/1.5.

SGA 100C #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.

TIG (GTAW) Welding



HF-251D-1 High-Frequency Arc Starter and Stabilizer #042 388 Requires Secondary Contactor and RMLS-14 Switch. A portable 115 volt, 250 amp unit. (No remote

amperage control available on the Bobcat.)

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

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. It comes with jack stand, 2 in (50 mm) ball hitch, fenders and lights.

Cable Tree #195 023

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

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

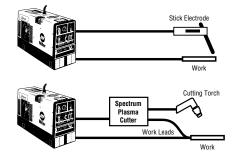
Trailer Specifications (Subject to change without notice.)

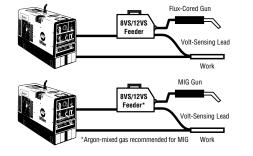
Model	Gross Axle Weight Rating	Gross Vehicle Weight Rating	Net Payload	Height of Bed	Road Clearance	Track (Center to center of tires)	Standard Tires (Standard rating or P-size rating)	Dimensions	Net Weight
HWY-1000	1500 lb (680 kg)	1610 lb (730 kg)	1000 lb (453 kg)	18-1/2 in (470 mm)	6-1/2 in (165 mm)	50 in (1.27 m)	4.8-12	Length: 98 in (2489 mm) Width: 57-1/2 in (1461 mm)*	265 lb (120 kg)

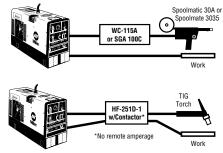
* Width at outside of fenders.



Typical Installations







Ordering Information

Equipment and Options	Stock No.	Description	Qty.	Price
Power Source				
Bobcat™ 225 NT	#903 517 #903 517-02-21	Base model w/Kohler engine With GFCI Protection and CSA (pending)		
Field Options				
Spark Arrestor	#043 579	Field		
Flame Arrestor Cap	#042 632	Field		
Full KVA Plug	#119 172	Field		
General Accessories				
No. 27 Running Gear	#043 014			
No. 4B Running Gear	#041 930			
No. 27CR Cylinder Rack	#043 040	For use with No.27 or No. 4B Running Gear		
Protective Cover	#195 136	Blue, with logo		
Stick Accessories				
No. 2WA Stick Accessory Package	#040 039	Includes 35 ft (10.7 m) No. 2 electrode cable and holder, 30 ft (9.1 m) work cable with clamp and lug, welding helmet and wire scratch brush		
Plasma Cutting Accessories				
Spectrum [®] Thunder	#903 741	115 V, 20 ft torch. See Lit. Index No. PC/13.0		
Spectrum [®] 375 CutMate [™]	#903 891	115/230 V, 20 ft torch. See Lit. Index No. PC/9.1		
Spectrum [®] 625	#907 058	25 ft torch. See Lit. Index No. PC/9.5		
Flux Cored/MIG Accessories				
Suitcase™ 12VS	#194 941	Includes contactor kit and gas valve. Requires drive rolls		
3045 FC	#194 919	Includes contactor kit and gas valve. Requires drive rolls		
Spoolmatic [®] 30A	#130 831	200 amp , 30 ft (9 m). See Lit. Index No. M/1.5		
WC-115A Control	#137 546-01-1	Includes contactor. See Lit. Index No. M/1.5		
Spoolmate™ 3035	#195 016	150 amp , 20 ft (6 m). See Lit. Index No. M/1.5		
SGA 100C	#043 857	Includes contactor. See Lit. Index No. M/1.5		
FC-1260 Flux Cored Gun	#195 729	350 amp, 15 ft (4.6 m). See Lit. Index No. AY/16.0		
Roughneck [®] C-3015 MIG Gun	#194 753	300 amp, 15 ft (4.6 m). See Lit. Index No. AY/17.0		
TIG Accessories				
HF-251D-1	#042 388	Requires Secondary Contactor Kit		
RMLS-14 Contactor Switch	#129 337	Activates HF-251D-1 Contactor		
Secondary Contactor Kit	#041 969			
Water Coolant Systems		See Lit. Index No. AY/7.2		
Trailers and Hitches				
HWY-1000 Trailer	#195 013			
Cable Tree	#195 023			
Lunette Eye	#043 824	2-1/2 in (64 mm)		



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