

Big Blue[®] 500 X

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Engine-Driven
Welder/Generator 

Quick Specs



Applications

Heavy Construction
Structural Steel
Maintenance and Repair Rigs
Mining Maintenance
Process Piping
Sheet Metal

Process

Stick, Gouging
(opt. 8mm, max. 10mm
Electrodes)
Scratch TIG CC/CV
MIG CC/CV
Flux Cored CC/CV

IP 23

Rated Output: 500 A, 40% DC 40°C

Output Range: 55 - 500 A

Generator Output Rated: Max. 5500 W/17 A, 220 VAC

Weight: 701 kg

The Power of Blue.[®]

Designed for fleet owners that demand the ultimate in reliability and performance.

ARC-DRIVE

Makes welding easy. Automatically enhances Stick welding, especially on pipe, by focusing the arc and preventing the electrode from going out.

Remote toolless oil drain

allows oil to be drained without getting under the engine and reduces the chance of oil spillage.

Industrial-grade, sealed marine ignition switch starter interlock

prevents the starter from engaging while the engine is running. Protects ring gear and starter from abuse.



The Big Blue 500 X is ideal for pipeline contractors, rental or fleet managers who value reliability, ease of service, and long life at an economical price.

4-cylinder industrial liquid-cooled engine designed, built and proven to operate over 10,000 hours before the first basic overhaul.

Automatic engine shutdown protects engine if low oil pressure or high coolant temperature occurs.

Engine gauges are standard Oil pressure and coolant temperature gauges provide visual engine vitals.

Three-phase rotating field generator efficiently produces smooth DC weld output using 20-30% less fuel than a rotating armature-type DC generator.

Hot Start[™]

provides positive Stick electrode starts to make it easy to start all types of electrodes, and works great for bead tie-ins.



Engine is warranted 2 years by engine manufacturer.
Welder/generator is warranted by Miller for 3 years, parts and labour.

MADE IN USA
APPLETON, WI



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Specifications



Welding Mode	Weld Output Range	Rated Output	Generator Rated Output	Max. Open-Circuit Voltage	Dimensions	Weight
CC/ DC	55 - 500 A 15 - 500 A (CC/CV Models Only)	300 A, 32 Volt DC, 100% Duty Cycle 430 A, 37 Volt DC, 60% Duty Cycle	5.500 W max. 4.000 W cont. 220 VAC/1 Phase 17 A 50/60 Hz	95 V	H: 1092 mm W: 724 mm D: 1637 mm	701 kg
CV/DC (CC/CV Models Only)	14 - 40 V	300 A, 29 Volt DC (CV), 100% Duty Cycle 430 A, 36 Volt DC (CV), 60% Duty Cycle		56 V		

Ordering Information

Power Source	Stock No.	Description
Big Blue 500 X CC	907 187	Perkins 404.22 Motor
Big Blue 500 X CC	907 187 011	With digital display A and V
Big Blue 500 X CC	907 187 021	With digital display A and V, pole switch (mechanical)
Big Blue 500 X CC/CV	907 186	
Accessories		
RHC-3GD34A	041 122	6 m (CC Models Only)
HF 5000	V29 012 345	HF arc starter for TIG (CC/CV Models Only)
RHC - 14	242 211 020	Hand Remote Control 6 m (CC/CV Models Only)
PRHC - 14	028 050 25	Hand Control, with big magnet, on/off switch, 25 m (CC/CV Models Only)
Welding cable with electrode holder and work cable with earth clamp, Dinse connectors	058 066 041	Length 5 m, 50 mm ²
	058 066 042	Length 10 m, 50 mm ²
	058 066 047	Length 15 m, 70 mm ²
	058 066 048	Length 20 m, 70 mm ²
Weld Cable Adapter	232 728	Threaded Stud to Dinse 50/70 mm ²
Suitcase 8 RC	300 660 003	Lightweight portable wire feeder (CC/CV Models Only)
Suitcase 12 RC	300 663 004	Lightweight portable wire feeder (CC/CV Models Only)
Suitcase X-Treme 12VS	300 659 001	Lightweight portable V-sense wire feeder, operates on OCV (CC/CV Models Only)
Ironmate		Flux Cored Guns (CC/CV Models Only)
Vandalisme Lockout Kit	195 118	Lockable front control panel and engine compartment
Protective Cover	194 683	
Cable Holder	043 946	
Spark Arrestor Muffler	195 012	
Lockable Fuel Cap Flame Arrestor	043 947	
Idle control	043 938	
Battery Voltmeter	195 454	
Roll Cage/ Drip Pan	194 918	
Polarity switch	043 942	
Weld meters	195 131	