

# Big Blue® 500 X

January 2011 • Index No. EDX/10.11

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



### ITW Welding Products

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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
<b>Big Blue 500 X CC</b>	<b>907 187</b>	Perkins 404.22 Motor
<b>Big Blue 500 X CC</b>	<b>907 187 011</b>	With digital display A and V
<b>Big Blue 500 X CC</b>	<b>907 187 021</b>	With digital display A and V, pole switch (mechanical)
<b>Big Blue 500 X CC/CV</b>	<b>907 186</b>	
<b>Accessories</b>		
RHC-3GD34A	<b>041 122</b>	6 m (CC Models Only)
HF 5000	<b>V29 012 345</b>	HF arc starter for TIG (CC/CV Models Only)
RHC - 14	<b>242 211 020</b>	Hand Remote Control 6 m (CC/CV Models Only)
PRHC - 14	<b>028 050 25</b>	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	<b>058 066 041</b>	Length 5 m, 50 mm <sup>2</sup>
	<b>058 066 042</b>	Length 10 m, 50 mm <sup>2</sup>
	<b>058 066 047</b>	Length 15 m, 70 mm <sup>2</sup>
	<b>058 066 048</b>	Length 20 m, 70 mm <sup>2</sup>
Weld Cable Adapter	<b>232 728</b>	Threaded Stud to Dinse 50/70 mm <sup>2</sup>
Suitcase 8 RC	<b>300 660 003</b>	Lightweight portable wire feeder (CC/CV Models Only)
Suitcase 12 RC	<b>300 663 004</b>	Lightweight portable wire feeder (CC/CV Models Only)
Suitcase X-Treme 12VS	<b>300 659 001</b>	Lightweight portable V-sense wire feeder, operates on OCV (CC/CV Models Only)
Ironmate		Flux Cored Guns (CC/CV Models Only)
Vandalisme Lockout Kit	<b>195 118</b>	Lockable front control panel and engine compartment
Protective Cover	<b>194 683</b>	
Cable Holder	<b>043 946</b>	
Spark Arrestor Muffler	<b>195 012</b>	
Lockable Fuel Cap Flame Arrestor	<b>043 947</b>	
Idle control	<b>043 938</b>	
Battery Voltmeter	<b>195 454</b>	
Roll Cage/ Drip Pan	<b>194 918</b>	
Polarity switch	<b>043 942</b>	
Weld meters	<b>195 131</b>	