

# Big Blue® 500 Pro and 600 Series

See literature ED/11.0 (500) and ED/11.5 (600)

**Clean, quiet, multiprocess machines designed to give welders the output they need for heavy-duty applications on construction and fabrication sites.**



Big Blue 500 and 600 Pro

Big Blue 600 Air Pak

**IMPROVED!**

Now available with wireless interface control (WIC) on select models.

## ArcReach®

Parameter control at the wire feeder or stick/TIG remote without needing a control cord. Standard on all Deluxe and Air Pak™ models. See page 47 for more information.

## WIRELESS INTERFACE CONTROL

Work hassle-free with full welder/generator control in the palm of your hand. Factory-installed option on select models. See page 80 for more information.

### Heavy industrial

#### Processes

- Stick (SMAW) ▪ MIG (GMAW)<sup>1</sup>
- Flux-cored (FCAW)<sup>1</sup> ▪ DC TIG (GTAW)
- RMD<sup>2</sup> ▪ Pulsed MIG (GMAW-P)<sup>2</sup>
- Submerged arc (SAW)
- Air carbon arc cutting and gouging (CAC-A) (500: rated 5/16 in. carbons; 600: rated 3/8 in. carbons)

<sup>1</sup>With wire feeder.

<sup>2</sup>ArcReach models only with ArcReach Smart Feeder.

#### Diesel engines

##### EPA Tier 4 Final choices

##### 500 and 600 Pro: Kubota V2403

48.9 hp at 1,800 rpm  
Turbo-charged, four-cylinder, industrial, liquid-cooled

##### 600 Air Pak: Deutz TD2.9 L4

65.7 hp at 1,800 rpm  
Turbo-charged, four-cylinder, industrial, liquid-cooled

Note: Engines are warranted separately by engine manufacturer.

#### Most popular accessories

- SuitCase® Feeders (pg 18/47)
- ArcReach® Smart Feeder (pg 18/47)<sup>3</sup>
- ArcReach® Stick/TIG Remote (pg 47)<sup>3</sup>
- ArcReach® Heater (pg 47/92)<sup>3</sup>
- Dynasty 210® Series (pg 56)
- Full KVA Adapter Cord (pg 120)
- Full KVA Plug Kit (pg 120)
- Protective Cover (pg 120)
  - 301495 Kubota
  - 301113 Deutz
- Remote Output Panel Kit 951850 (pg 120)
- HWY-225 Trailer 301338 (pg 121)
- Desiccant Air Dry System (for Air Pak model only)
  - 195117 Side mount
  - 195117001 Rear mount
 Eliminates moisture in the air stream and prevents air line freeze-ups in cold climates
- Cold Weather Kit 301482
- Spark Arrestor Kit 195012
- Wireless Interface Control Screen Protectors 287594 (5 pack)

<sup>3</sup>For ArcReach models only.

Visit MillerWelds.com or your distributor for other Miller® options and accessories.

#### Electronic engine display

simultaneously displays fuel level, engine hours, coolant temperature, oil pressure, battery volts, and engine rpm. Also tracks oil change intervals and displays engine diagnostics for easier servicing.



#### Dynamic DIG™ technology

automatically adjusts the amount of current required to clear a short. Delivers a smoother, more consistent arc that can be tailored to match the application, material, fit-up and welder technique.



**Industrial USB port.** Quickly upload the latest software and download machine log files to retrieve in-depth information such as diagnostics and machine statistics.

**20,000 watts of pure generator power.** Plug in Miller® inverter-based power sources for additional welding arcs!

**Standard features** include digital meters with SunVision™, adjustable Hot Start™, output contactor control, automatic idle, thermal overload protection and 120-volt block heater.

**Deluxe and Air Pak™ models** add ArcReach technology, polarity reversing switch and vandalism lockout kit (protects control panel and receptacles).

**Ingersoll Rand ultra-reliable industrial rotary screw compressor (Air Pak™ model only).** 30,000-hour life expectancy. Independent on/off control for applications not requiring compressed air – allows greater fuel savings and longer compressor service intervals.

\*Big Blue 600 Series has welder truck specific models available – visit MillerWelds.com or your distributor.

Model/Stock Number	Welding Mode/Process	Amp/Volt Ranges	Rated Output at 104°F (40°C)	Generator Power at 104°F (40°C)	Dimensions	Net Weight
<b>Big Blue 500 Pro</b> (907736) Kubota (907736001) Kubota Deluxe model (907736008) Kubota Deluxe model with WIC	CC/DC (Stick/TIG)	20-500 A	400 A at 36 V, 100% duty cycle 450 A at 38 V, 100% duty cycle 500 A at 40 V, 100% duty cycle	Three-phase Peak: 27,000 watts Continuous: 20,000 watts	H: 46 in. (1,168 mm) W: 28.5 in. (724 mm) D: 69.5 in. (1,765 mm)	1,750 lb. (794 kg)
	CV/DC (MIG/FCAW)	15-50 V	Single-phase Peak: 15,000 watts Continuous: 12,000 watts			
<b>Big Blue 600 Pro*</b> (907737) Kubota (907737001) Kubota Deluxe model (907737003) Kubota Deluxe model with WIC	CC/DC (Stick/TIG)	20-600 A	600 Pro: 500 A at 40 V, 100% duty cycle 550 A at 42 V, 60% duty cycle 600 A at 42 V, 40% duty cycle	Three-phase Peak: 27,000 watts Continuous: 20,000 watts	H: 46 in. (1,168 mm) W: 28.5 in. (724 mm) D: 69.5 in. (1,765 mm)	600 Pro: 1,750 lb. (794 kg) 600 Air Pak: 2,040 lb. (925 kg)
	CV/DC (MIG/FCAW)	15-50 V	600 Air Pak: 500 A at 40 V, 100% duty cycle 575 A at 43 V, 100% duty cycle 600 A at 44 V, 60% duty cycle	Single-phase Peak: 15,000 watts Continuous: 12,000 watts		
<b>Ingersoll Rand CE55 G1 Air Compressor</b> (Air Pak model only)	<b>Features</b> Rotary screw with electric clutch for on/off, oil change intervals of 500 hours, life expectancy of 30,000 hours	<b>Free Air Delivery</b> Idle: 40 cfm (1.13 m³/min.) Weld: 60 cfm (1.70 m³/min.)	<b>Working Pressure Constant</b> 100 psig (7 bar)	<b>Duty Cycle</b> 100%	<b>Oil Capacity</b> 4 qt. (3.79 L)	

Diesel