

Big Blue® 400X Pro

Issued February 2021 · Index No. ED/5.7 UK

**Diesel Engine-Driven
Welder/AC Generator**



Quick Specs



Heavy Industrial Applications

Mechanical contractors
Structural steelwork
Fabrication
Maintenance
Repair
Rental
Construction
Pipe welding

Processes

Stick (SMAW)
MIG (GMAW)*
Flux-cored (FCAW)*
RMD***
Pulsed MIG (GMAW-P)**
DC TIG (GTAW)
Air carbon arc (CAC-A)
Rated: 4.8 mm (3/16 in.) carbons
Capable: 6.4 mm (1/4 in.) carbons

Output Range DC stick 20–400 A
MIG/flux-cored 14–40 V
DC TIG 20–400 A

Generator Output Rated at 40°C (104°F)
12,000 watts peak, 10,000 watts continuous

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

*With wire feeder.

**ArcReach models only with ArcReach Smart Feeder.

The professional welder's choice –

designed with the professional in mind, the Big Blue 400X Pro is the best for ease of use, reliability and fuel economy.



Heavy duty low-speed industrial
diesel engine KUBOTA

Dynamic DIG™ technology



Ultra-adaptive arc control. Unlike conventional DIG that provides a preset amount of short-clearing current, Miller-exclusive Dynamic DIG technology works on a time-based algorithm that automatically adjusts the amount of current required to clear a short. Delivers a smoother more consistent arc that can be tailored to match application, material, fit-up and welder technique.



Durable and built to last in harsh industrial environments.



Superior arc performance.



CE compliant.

ArcReach® technology (option)



Parameter control at the wire feeder or pendant without needing a control cord.

An ArcReach system allows you to change weld settings from your ArcReach feeder or Stick/TIG remote, saving a trip to the power supply. ArcReach technology uses the existing weld cable to communicate welding control information between the feeder or Stick/TIG remote and the power source. This technology eliminates the need for control cords, and their associated problems and costs.

ArcReach-equipped power sources work with non-ArcReach accessories; however the ArcReach benefit is only realized with the complete ArcReach system. This includes an ArcReach-equipped machine and one or more of the following accessories:

- ArcReach SuitCase feeder
- ArcReach Smart Feeder
- ArcReach Stick/TIG Remote



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



Big Blue® 400X Pro Features and Controls

Digital meters with SunVision™

technology enable welding parameters to be viewed with greater clarity than analog meters — at virtually any angle. Meters can be seen clearly even in direct sunlight.

Meters display

- Process settings for quick and easy setup
- Preset and actual amperage

Simple-to-set controls

require no elaborate procedure — just select process and weld.

10.000 watts of pure generator power.

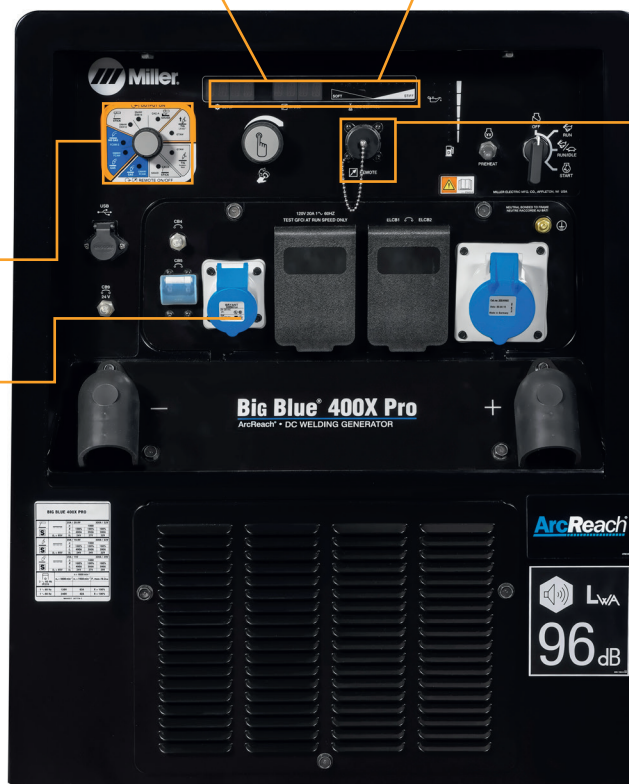
Plug in an extra Miller® inverter-based power source for a second welding arc.

Industrial USB port.

Quickly upload the latest software and download machine log files.



Thermal overload protection prevents machine damage if the duty cycle is exceeded or airflow is blocked.



Arc control is beneficial when welding with stick and solid wires for easier fine-tuning of tough-to-weld materials and out-of-position applications.

Standard 14-pin receptacle with Auto-Remote Sense™ for simple connection of remote controls and wire feeders.

Low OCV stick (VRD), when enabled, reduces the open-circuit voltage to 30 volts when the welding power source is not in use, increasing operator safety without compromising arc starts.

HD powder coat with zinc-rich primer protects sheet metal from rust and corrosion.

Standard features include adjustable Hot Start™, output contactor control, automatic idle, 120-volt block heater and Dynamic DIG™.

Big Blue® 400X Pro Benefits

Easily update technology



With the industrial USB port, you can easily upload the latest software and download machine log files to retrieve in-depth information from your machine such as diagnostics and statistics.

Visit MillerWelds.com/support to download the latest software updates.

Less noise



Quieter jobsites are safer and more productive because work crews can communicate easier. The Big Blue 400X Pro is only 71.6 decibels (96 Lwa) under a full load, allowing for easier jobsite

communication. Optional wireless interface control makes it easier to shut off your machine when it's not in use, so you can lower jobsite noise levels and hear what's going on around you.

Jobsite safety



Reduce the need to walk back to or climb into the truck bed to make process and parameter changes, or turn your machine on/off. ArcReach® technology provides parameter control at the wire

feeder or Stick/TIG remote and optional wireless interface control provides full front panel control in the palm of your hand, so you can lower the risk of encountering potential jobsite hazards.

Specifications (Subject to change without notice.)



Weld Mode/ Process	Weld Output Range	Weld Output Rated at 100% Duty Cycle at 40°C (104°F)	Max. Open- Circuit Voltage	Generator Power Output Rated at 40°C (104°F)	Sound Levels at Rated Output, 7 m (23 ft.)	Dimensions	Net Weight (without fuel)**
CC/DC (TIG)	20–400 A	300 A at 32 VDC 350 A at 27 VDC 400 A at 24 VDC	85 VDC 30 VDC*	12,000 watts peak, 10,000 watts continuous 1-phase, 84/42 A, 120/240 VAC	Idle: 66 dB (91 Lwa) Weld: 71.6 dB (96 Lwa)	H: 813 mm (32 in.) W: 667 mm (26.25 in.) D: 1,422 mm (56 in.)	431 kg (950 lb.)
CC/DC (Stick)	20–400 A						
CV/DC (FCAW/MIG)	14–40 V						

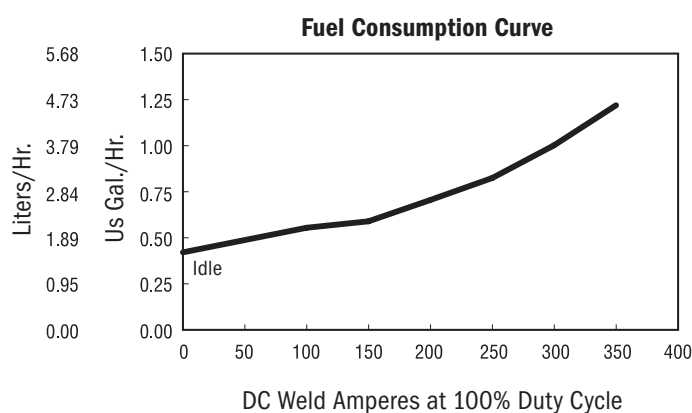
* Sense voltage for Lift-Arc™ TIG and stick with VRD on.

** Additional 37 kg (82 lb.) when fuel tank is full.

Engine Specifications (Engines warranted separately by the engine manufacturer)

Engine Brand	Features	HP	Type	Engine Speeds	Capacities	Automatic Engine Shutdown
Kubota V1505	CE compliant	20.2	Four-cylinder, liquid-cooled industrial diesel	Idle: 1,500 rpm Weld: 1,800 rpm	Fuel: 43.5 l (11.5 gal.) Oil: 5.7 l (6 qt.) Coolant: 5.7 l (6 qt.)	Low oil pressure, high coolant temperature, low fuel level

Performance Data



Simultaneous Welding and Power

Weld Amperes	Total Aux. Power Available (Watts)
25 A	10,000
75 A	10,000
125 A	10,000
175 A	9,000
225 A	7,500
300 A	4,500
350 A	1,000

Function Guide

1. Self-calibrating digital weld meters with fault code indication display preset or actual weld parameters.

2. Pushbutton main control knob used for adjusting amperage/voltage, adjusting arc control, and accessing the service menu.

3. LED process indicator. Front panel process selections are illuminated with an LED that identifies the active process. This enables the selected weld process to be seen at a distance from the power source.

4. Lift-Arc™ TIG with Auto-Stop™ and Auto-Crater™.

5. USB port allows software updates from a USB drive. A summary file of recorded data from the unit will be saved to a USB drive that is inserted.

6. Weatherproof Lexan® nameplate is super durable and resists cracking and fading.

7. Adjustable arc control adjusts DIG when process control is in stick mode and adjusts inductance when process control is in FCAW or MIG mode. The amount of DIG determines how much amperage (heat) varies with stick arc length. Inductance determines the “wetness” of the weld puddle.

8. Maintenance interval reminder. Yellow and red indicator lights let an operator know when the machine is approaching and finally in need of routine maintenance.

9. Fuel indicator gauge. Low fuel shutdown shuts engine off prior to running out of fuel to prevent loss of fuel in the system, and make restarts easy.

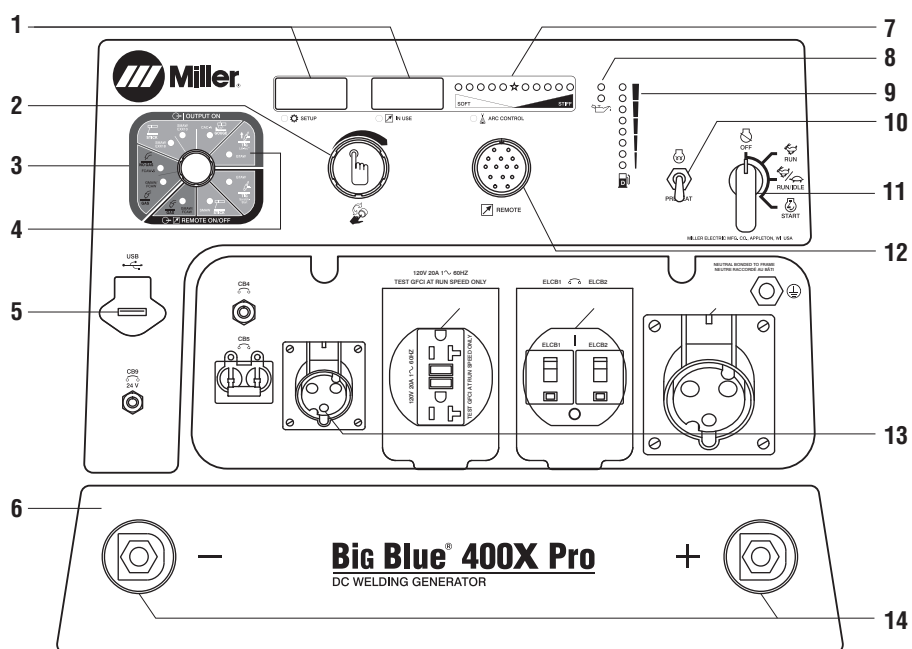
10. Glow plugs assist in cold weather starting.

11. Engine control switch is used to start the engine and then select between auto idle and high speed lock.

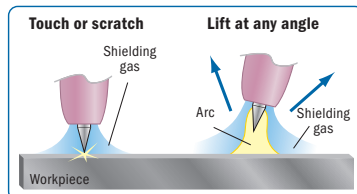
12. Standard 14-pin receptacle for simple connection of remote controls and wire feeders. Includes Auto Remote Sense™ which automatically switches from panel to remote amperage/voltage (A/V) control with remote connected. Eliminates confusion of a panel/remote switch.

13. International receptacle panel with 16 A, 240 V receptacle, 20 A 120 V GFCI receptacle and 32 A, 240 V receptacle with circuit breakers.

14. Weld output terminals

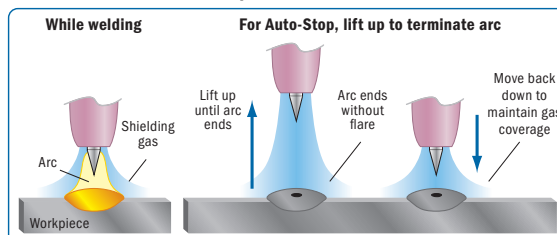


ARC START with Lift-Arc™



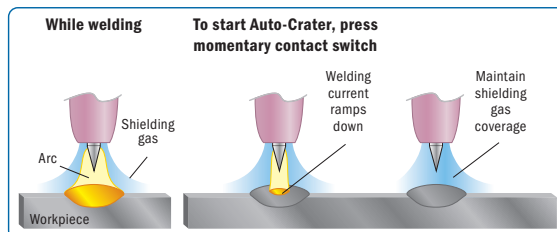
- Reduces or eliminates sticking
- Reduces or eliminates electrode/work contamination
- Low open-circuit voltage

ARC END with Auto-Stop™



- Eliminates need for a remote control
- Maintains shielding gas coverage
- Eliminates tungsten and workpiece contamination
- Eliminates unwanted arc strikes outside the weld area

ARC END with Auto-Crater™



- Maintains shielding gas coverage
- Eliminates tungsten and workpiece contamination
- Auto-Crater time allows for addition of filler
- Eliminates unwanted arc strikes outside the weld area

Genuine Miller® Accessories

Engine Filter Kits

253901 Field. For Kubota (USA/Int'l)

Includes all filters required for proper engine maintenance. Oil filter, primary and secondary fuel filter, and primary air filter.



FA-1D Lockable Flame Arrestor Fuel Cap 043947

Field Fuel cap can be padlocked to prevent vandalism. A built-in flame arrestor prevents flames or sparks from entering the fuel tank.



Protective Cover 195301

Field Blue water-resistant cover with Miller logo resists stains and mildew, and protects the finish of your welder.

MIG (GMAW) or Flux-cored (FCAW)



ArcReach® SuitCase® 8 301457

ArcReach® SuitCase® 12 301456

Portable feeder designed to run off of arc voltage. When paired with an ArcReach power source, provides remote control of the power source without a control cord – saving time and money. See literature M/6.55.



ArcReach® Smart Feeder 301177

For use with ArcReach models only.

TIG (GTAW) Welding and multiple operator welding

The Maxstar® or Dynasty® power sources can be run off the engine drive's generator to provide two arcs with only one engine.



Maxstar® 210 (DC)

Dynasty® 210 (AC)

For portable DC or AC/DC TIG welding.

Stick/TIG Remote Controls



ArcReach® Stick/TIG Remote 301325

When paired with an ArcReach power source, provides remote control of the power source without a control cord – saving time and money. See literature AY/14.5.



RHC-14 Hand Control 242211020

Miniature hand control for remote current, voltage and contactor control. Dimensions: 102 x 102 x 82 mm (4 x 4 x 3.25 in.).

Includes 6 m (20 ft.) cord and 14-pin plug.



Wireless Remote Hand Control 301582

For remote current and contactor control. Receiver plugs directly into the 14-pin receptacle of Miller machine. 91.4 m (300 ft.) operating range.

Wireless Antenna Kit 300749

Recommended for improved reception.

Trailers and Hitches (Note: Trailers are shipped unassembled.)



HWY-225 301338

Trailer for field (not certified for roads), 1225 kg capacity trailer.



Dual Hitch 301441

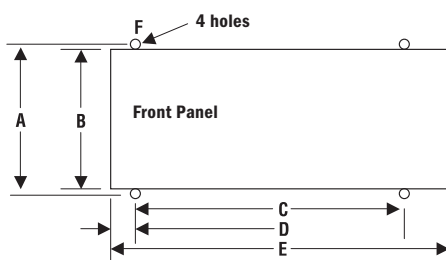
Combination 50 mm (2 in.) ball hitch and 76 mm (3 in.) lunette eye in one reversible assembly.



Road trailer without brake:

for France only use **018035030**

Mounting Specifications



- A. 705 mm
- B. 667 mm
- C. 1,327 mm
- D. 51 mm
- E. 1,422 mm
- F. 14 mm diameter

Height: 813 mm
Width: 667 mm
Depth: 1,422 mm

Ordering Information

Equipment and Options	Stock No.	Description	Qty.	Price
Big Blue® 400X Pro (Int'l)	907732011	Kubota. International model with ArcReach®		
Field Accessories				
Engine Filter Kits	253901			
FA-1D Lockable Flame Arrestor Fuel Cap	043947	Field		
Protective Cover	195301	Field		
MIG/Flux-cored Welding				
Wire Feeders		See page 5		
TIG Welding		See page 5		
Multiple Operator Welding		See page 5		
Stick/TIG Remote Controls				
ArcReach® Stick/TIG Remote	301325	For use with ArcReach models only		
RHC-14 Hand Control	242211020	Hand control with 6 m (20 ft.) cord		
Wireless Remote Hand Control	301582	Hand control with wireless 91.4 m (300 ft.) operating range		
Wireless Antenna Kit	300749	Recommended for improved reception		
Trailers and Hitches				
HWY-225	301338	Trailer for field		
Trailer	018035030	Road trailer without brake		
Dual Hitch	301441	Combination 50 mm (2 in.) ball hitch and 76 mm (3 in.) lunette eye in one reversible assembly		

Date:

Total Quoted Price:

Miller recommends *Elega* consumables

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