

 ENGINE DRIVEN



# Big Blue<sup>®</sup> 400X Pro with ArcReach Technology

Part No: MILBB400XPRO [Kubota Diesel Engine]



## The Professional Welder's Choice



DESIGNED WITH THE PROFESSIONAL IN MIND,  
THE BIG BLUE 400X PRO IS THE BEST FOR  
EASE OF USE, RELIABILITY & FUEL ECONOMY

**DON'T WALK WELD<sup>™</sup>**

**GAME-CHANGING TECHNOLOGIES CAN STOP YOU FROM WASTING HOURS EVERY DAY.**

ArcReach welding technology minimises the non-value-added time spent walking to and from the power source - and maximises arc-on time, weld quality and jobsite safety.



### APPLICATIONS

- Construction
- Structural Steel
- Mining Maintenance
- Maintenance and Repair Rigs
- Process Piping

### PROCESSES

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

\*With optional ArcReach Smart Feeder



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## AUTO REMOTE SENSE™

Detects if a remote control is plugged into the 14-pin receptacle and eliminates confusion of a remote/panel switch.

## HD POWDER COAT

With zinc-rich primer protects sheet metal from rust and corrosion.

## INFINITE ARC CONTROL

Allows the arc characteristics to be changed for specific applications in Stick, TIG, MIG and FCAW.

## LIFT-ARC TIG WITH AUTO CRATER AND AUTO STOP

Lift-Arc TIG provides soft TIG arc starting without the use of high frequency, while Auto Crater and Auto Stop eliminates tungsten and workpiece contamination.

## THERMAL OVERLOAD PROTECTION

Prevents machine damage if the duty cycle is exceeded or airflow is blocked.

## STANDARD FEATURES

- > ArcReach.
- > Digital Preset Weld Meters.
- > Automatic Idle.
- > Cold Weather Starting Aids.

## DIGITAL METERS

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

## INDUSTRIAL USB PORT

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

## REMOTE OIL DRAIN

Prevents spills and makes servicing easy.

## MODEL OPTIONS

Emergency Stop, Double Pole Battery Isolator & Lockout Device

## PART. NO

MR907732011-2

Roll Frame & Spill Tray Assembly, Emergency Stop, Double Pole Battery Isolator & Lockout Device

MR907732011-3

## ARC CONTROL

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

## AUXILIARY POWER\*

- > 1 x 240 V 60Hz 32 Amp 1 Phase Socket.
- > 2 x 240 V 60 Hz 15 Amp 1 Phase Socket.
- > RCD.

## LOW OCV STICK (VRD)

Reduces the open-circuit voltage to 30 volts when the welding power source is not in use. This feature is now built into the Big Blue 400X Pro for increased operator safety without compromising arc starts.

## HEAVY-DUTY LOW-SPEED INDUSTRIAL DIESEL ENGINES

### 3 YEAR WARRANTY

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

\*Generator auxiliary power is 60Hz, and intended for operating equipment associated with welding, such as angle grinders, drills and floodlights. Some New Zealand 50Hz equipment incorporating induction motors, such as pumps, fans, air compressors, refrigeration or air-conditioners, may not operate correctly and could be damaged. Refer to appliance supplier or manufacturer to confirm suitability.



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 **ENGINE DRIVEN**

**CC**  
**CV**

**DC**  


**1**  
Phase



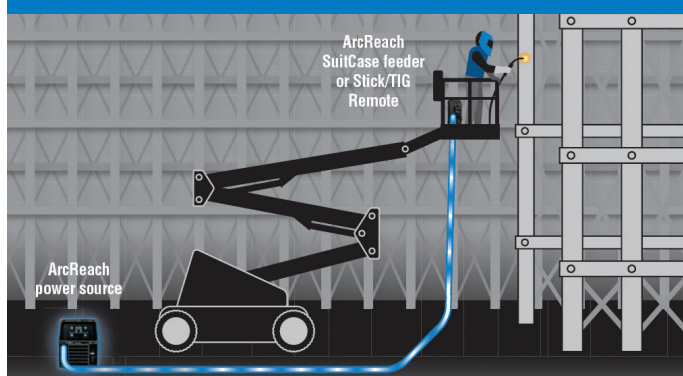
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## ArcReach<sup>®</sup>

**REMOTE CONTROL OF  
THE POWER SOURCE  
WITH A CONTROL CORD**

ArcReach technology uses the existing weld cable to communicate welding control information between the feeder or remote and power source. This technology eliminates the need for control cords, and their associated problems and costs.



**FEWER CABLES  
TO MAINTAIN**

### SAVE TIME

Operators no longer need to troubleshoot welding system problems that result from damaged control cords.

### ELIMINATE COSTLY CONTROL CORD REPAIRS

Because control cords are not used.



**FLEET  
COMPATIBILITY**

### CROSS PLATFORM COMPATIBLE

The same ArcReach accessories that work on engine-driven equipment can also be used on select ArcReach-equipped XMT<sup>®</sup> power sources.

### REVERSE COMPATIBLE

ArcReach-equipped power sources work with non-ArcReach accessories; however, the complete ArcReach benefit is only realised with the ArcReach system.



**MORE WELDS IN LESS TIME**

### MORE ARC-ON TIME & REDUCED EXPOSURE TO WORKPLACE HAZARDS

Less time is spent going back to the welding power supply to set process and arc amperage or voltage.

### AUTO-PROCESS SELECT<sup>™</sup>

Depending on connected accessory, the system automatically changes to stick or MIG/FCAW (with gas) if electrode positive polarity is detected or TIG or FCAW (no gas) if electrode negative polarity is detected, when ArcReach communication is established between the accessory and the Big Blue – reducing the need to access the power supply.

### LESS OPERATOR FATIGUE

Operators no longer need to move or reposition heavy secondary weld leads bundled with control cords on the job site because control cables are not used.

### AUTOMATIC RETURN TO PANEL SETTINGS

System automatically returns to Big Blue setting when ArcReach communication is terminated. For example, if the Big Blue is set to gouging at 400 Amps and an ArcReach feeder is connected, the Big Blue will go to a MIG/FCAW process. If the feeder is disconnected, the Big Blue will go back to its previous setting (gouging at 400 Amps).



**BETTER WELDS WITH LESS REWORK**

### OPERATORS CAN PRECISELY SET ARC AMPERAGE OR VOLTAGE

Operators can set the Amperage and voltage at the weld joint and monitor the actual arc voltage and current delivered to the weld using the digital meters on the accessory. This removes guesswork when it comes to adhering to weld procedures.

### REMOTE OVERRIDE OF BIG BLUE

When an ArcReach accessory is connected to a Big Blue the accessory has full control and the Big Blue controls are disabled. While under ArcReach control, process and voltage/amperage adjustments are locked out, preventing accidental changes by personnel other than the welding operator.

  
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## ARC REACH SUITCASE 12 FEATURES



### SETTING THE STANDARD FOR PERFORMANCE

Heavy-duty drive motor with tachometer control provides wire feed speed that is accurate and consistent from the start of the weld to the finish and from one weld to the next, which provides consistent arc quality. Front panel has trigger hold, wire jog, and gas purge for easy operator access. Wide voltage range for small and large wires with no contactor chatter or arc outages.

### SET VOLTS & WIRE SPEED FEED REMOTELY

The simple interface on the feeder allows operators to adjust parameters at the point of use with no control cords.

### EASY PROCESS CHANGEOVER

Simply connect the ArcReach SuitCase feeder to your weld lead and you are ready to go. The power source automatically switches settings to run conventional wire processes.

### EASY SOLUTION FOR TRADITIONAL WIRE PROCESS

Add the flux-cored capability of the Big Blue 500X Pro for fill and cap passes for increase productivity.

### DURABLE DESIGN REDUCES DOWNTIME

Impact-resistant case and the elimination of feeder control cords provides a solid solution to last in harsh environments.

## ARC REACH STICK/TIG REMOTE



### COMPLETE REMOTE CONTROL

Portable and lightweight, the ArcReach<sup>®</sup> Stick/TIG Remote paired with an Big Blue 500X Pro power source allows you to change weld settings at your work area, saving a trip to the power supply. No extra control cord to purchase, maintain, string or unstring – saving time and money.



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 **ENGINE DRIVEN**

**CC**  
**CV** **DC** **1**  
Phase



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WELDING MODE/ PROCESS	AMP/VOLT RANGE	WELD OUTPUT	MAX OPEN-CIRCUIT VOLT.	GENERATOR POWER OUTPUT RATED AT 40 °C***	DIM. (MM)	WEIGHT (WITHOUT FUEL)
CC/DC (Stick/TIG)	20 - 400 A	300 A at 32 VDC, 100% Duty Cycle* 350 A at 27 VDC, 100% Duty Cycle	85 VDC 30 VDC**	12,000 watts peak, 10,000 watts continuous 42 A, 240 VAC, 60 Hz	H: 813 W:667 D: 1422	Net: 431kg Shipping: 456kg  *Additional 75kg when fuel tank is full
CV/DC (MIG/FCAW)	14 - 40 V	400 A at 24 VDC, 100% Duty Cycle				

\*Meets NEMA and IEC ratings. \*\*VRD voltage for Stick and sense voltage for Lift-Arc™ TIG. \*\*\*Will operate either 60 hertz or 50/60 hertz power tools, lights, etc.

ENGINE SPECIFICATIONS						
ENGINE BRAND	HP	TYPE	FEATRUES	ENGINE SPEEDS	CAPACITIES	AUTOMATIC ENGINE SHUTDOWN
Kubota V1505	20.2	Turbo-charged four-cylinder, liquid-cooled industrial diesel	EPA Tier 4 Final compliant	Idle: 1500 RPM Weld: 1800 RPM	Fuel: 43.5 L Oil: 5.7 L Coolant: 5.7 L	Low Oil Pressure, High Coolant Temperature, Low Fuel Level