

FRONTIER® 500X

Diesel Engine Driven Welder/Generator



Shown K5350-2

The New Frontier of Performance

The Frontier® 500X is a high-performance engine-driven welder/generator built for demanding jobsites. With up to 525 amps of output, advanced multi-process capabilities (including STT®, pulse, and mechanized welding), and 15 kW of continuous three-phase power, it's ready for any task. A rugged 7" digital display simplifies operation with memory, maintenance alerts, and PIN security. CrossLinc® Technology allows full control at the arc—no extra cables needed—while Auto-Stop/Start cuts fuel use and engine wear.

Note: Includes ArcLink™ connector punch-out for optional kit installation. Enables mechanized communication today, with support for future capabilities.

Next-Gen Display – 7" digital interface with memory, maintenance alerts, and PIN security.

Powerful & Versatile – Up to 525A weld output and 20 kW auxiliary power in a compact, quiet package.

Advanced Processes – Supports CC/CV, pulse, and mechanized welding.

CrossLinc® Enabled – Adjust weld settings at the arc—no control cable needed.

Auto-Stop/Start – Cuts fuel use and limits engine wear.

Proven Diesel Power – Reliable Kubota® engine built for tough jobsites.

Built to Last – Rugged design with 3-year warranty and trusted support.

Mechanized Ready – ArcLink™ punch-out supports optional connector kit for orbital solutions.

Processes »

SMAW (Stick), FCAW (Flux-Cored), GMAW (MIG), GTAW (TIG), CAC-A (Arc Gouging), SAW (Sub-Arc)

Output »



Input »



Product Number »

K5350-2

Industries Served »

- Maintenance & Repair
- Pipeline
- Power Generation
- Structural

Key Accessories »

- LN-25X® Wire Feeder
- Activ8X® Pipe Wire Feeder
- CrossLinc Remote
- Wireless Remote Control
- Medium Two-Wheeled Trailer
- Engine Service Kit

MACHINE SPECIFICATIONS

Product Name	Product Number	Rated Output @104°F [40°C]	Output Range	Open Circuit Voltage	AC Generator Auxiliary Power ⁽¹⁾	Auxiliary Receptacles ⁽²⁾	Dimensions ⁽³⁾ H x W x L in (mm)	Weight lb (kg) ⁽⁴⁾
Frontier 500X	K5350-2	IEC Rating – 500A / 40V / 100%	Stick: 30 – 525 Amps Pipe: 30 - 400 Amps DC TIG: 5 – 410 Amps MIG / FCAW: 10 – 45 Volts Arc Gouging: 60 – 525 Amps	71 Peak OCV @ 1800 RPM	Single Phase: 12 kW Continuous, 15 kW Peak, 120V/240V @ 60 Hz Three Phase: 20 kW Continuous, 21 kW Peak, 240V @ 60 Hz	NEMA 5-20R (120V / 20A / 1-) NEMA 14-50R (120/240V / 50A / 1-) NEMA 15-50R (240V / 50A / 3-)	Machine Only: 40.4 x 28.4 ⁽³⁾ x 65.0 (1027 x 721 x 1651) To Top of Exhaust Pipe: 48.9 (1242)	1462 (663)

ENGINE SPECIFICATIONS

Engine Model	Service Kit	Engine Description	Operating Speed (RPM) @ Full Load	Displacement	Capacities
Kubota V2403-CR-TE4-BG ⁽⁵⁾ Tier 4 Final Compliant	K3599-6	4 Cylinder 48.9 hp (36.5kW) Turbocharged Water Cooled Diesel Engine	High Idle: 1800 Low Idle: 1500	148.5 cu. in (2.43 L) Bore x Stroke 3.43 x 4.031 in (87 x 102.4 mm)	Fuel: 20 US gal. (75.7 L) Oil: 10 qts. (9.5 L) Cooling System: 9 qts. (8.5 L)

(1) When welding, available auxiliary power will be reduced. Output voltage is within +/- 10% at all loads up to rated capacity.

(2) Circuits cannot be wired in parallel to operate the same device.

(3) Includes width of door. Base width is 27.0 in. (687 mm).

(4) Machine only – Does not include fuel.

(5) Engine warranted separately by engine manufacturer.

For best welding results with Lincoln Electric equipment, always use Lincoln Electric consumables. Visit www.lincolnelectric.com for more details.

Manufactured at a facility with certified ISO Quality and Environmental Management Systems.

CUSTOMER ASSISTANCE POLICY

The business of Lincoln Electric is manufacturing and selling high quality welding equipment, automated welding systems, consumables, and cutting equipment. Our challenge is to meet the needs of our customers, who are experts in their fields, and to exceed their expectations. On occasion, purchasers may ask Lincoln Electric for information or technical information about their use of our products. Our employees respond to inquiries to the best of their ability based on information and specifications provided to them by the customers and the knowledge they may have concerning the application. Our employees, however, are not in a position to verify the information provided or to evaluate the engineering requirements for the particular weldment, or to provide engineering advice in relation to a specific situation. Accordingly, Lincoln Electric does not warrant or guarantee or assume any liability with respect to such information or communications. Moreover, the provision of such information or technical information does not create, expand, or alter any warranty on our products. Any express or implied warranty that might arise from the information or technical information, including any implied warranty of merchantability or any warranty of fitness for any customers' particular purpose or any other equivalent or similar warranty is specifically disclaimed.

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Subject to Change – This information is accurate to the best of our knowledge at the time of printing. Please refer to www.lincolnelectric.com for any updated information.

The Lincoln Electric Company
22801 St. Clair Avenue · Cleveland, OH · 44117-1199 · U.S.A.
www.lincolnelectric.com