

VERSATILE

- Available welding output up to 410 amps
- Up to 11kW of continuous three phase or single phase power to operate industrial tools or an additional inverter welder
- Select one of five process modes, including CC-Stick, Downhill Pipe, DC Touch Start TIG®, CV-Wire, or Arc Gouging

DEPENDABLE

- Lab tested, field proven ruggedness and durability
- Engineered for outdoor use and harsh environments (IP23 Rated)
- Stainless steel paneling, potted PC boards, and automotive-grade connectors for added protection and durability
- Equipped with a smooth-running, industry-proven 22 hp Kubota® diesel

SAFETY ENHANCED

- Meets the latest compliance standards for RoHS, CE, and Stage V emissions
- VRD® (Voltage Reduction Device) reduces open circuit voltage in CC-stick welding mode for added safety
- Front panel emergency stop, battery lockout, and residual current device (RCD) for extra protection
- Low noise operations at 71 dB (97.0 Lwa sound power)



Shown  
K4178-1

Processes

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

Output



Input



Industries Served

- Structural
- Pipeline
- Maintenance and Repair
- Power Generation

Product Highlights

- Compact and versatile machine to handle various jobs
- Ideal choice for the construction industry, pipeline, and rental fleet managers

Key Accessories

- LN-25X Wire Feeder
- Kubota V1505 Service Kit
- Remote Output Control
- Medium Trailer
- Fender & Light Kit
- Cable Rack Kit

MACHINE SPECIFICATIONS

Product Number	Rated Output @104°F [40°C]	Output Range	Open Circuit Voltage	AC Generator Auxiliary Power <sup>[1]</sup>	Auxiliary Receptacles <sup>[2]</sup>	Dimensions H x W x L in (mm)	Weight lb (kg) <sup>[4]</sup>
K4178-1	IEC Rating – 300A / 32V / 100%  Max Rating – 410A / 23V / 100%	CC-Stick: 30 – 410 Amps  Downhill Pipe (CC): 40 – 300 Amps  Touch Start® TIG: 20 - 250 Amps  CV-Wire: 14 – 32 Volts  Arc Gouging: 90 – 300 Amps	60 Max OCV @ 1800 RPM	Single Phase: 10 kW Continuous, 115V/230V @ 60Hz  Three Phase: 11 kW Continuous, 400V @ 60Hz	IEC 60309 Yellow 2P+Ground (115V / 30A / 1-)  IEC 60309 Blue 2P+Ground (230V / 16A / 1-)  IEC 60309 Red 2P+Netural+Ground (400V / 16A / 3-)	Machine Only: 35.9 x 25.3 <sup>[3]</sup> x 60.0 (913 x 643 x 1524)  To Top of Enclosure: 43.8 [1113]	1076 (488)

ENGINE SPECIFICATIONS

Engine Model	Engine Description	Operating Speed (RPM) @ 372 HP	Displacement	Capacities
Kubota® V1505 <sup>[5]</sup> Stage V Compliant	4 Cylinder 22 hp [16.4 kW] Naturally Aspirated Water Cooled Diesel Engine	High Idle: 1890 RPM Full Load: 1800 RPM Low Idle: 1350 RPM	91 cu. in. [1.5L] Bore x Stroke 3.07 in x 3.09 in [78 mm x 78 mm]	Fuel: 20 US gal. [75.7L] Oil: 6.4 qt. [6.0L] Coolant: 7.2 qt. [6.8L]

[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 24.0" [610 mm].  
[4] Machine only – Does not include fuel.  
[5] Engine warranted separately by engine manufacturer.

CUSTOMER ASSISTANCE POLICY

The Lincoln Electric Company is manufacturing and selling high quality welding equipment, consumables, and cutting equipment. Our challenge is to meet the needs of our customers and to exceed their expectations. On occasion, purchasers may ask Lincoln Electric for information or advice about their use of our products. Our employees respond to inquiries to the best of their ability based on information 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. Accordingly, Lincoln Electric does not warrant or guarantee or assume any liability with respect to such information or advice. Moreover, the provision of such information or advice does not create, expand, or alter any warranty on our products. Any express or implied warranty that might arise from the information or advice, including any implied warranty of merchantability or any warranty of fitness for any customers' particular purpose is specifically disclaimed.

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