

Vantage[®] 300

Processes

Stick, TIG, MIG, Flux-Cored, Gouging

Product Number

K2409-3

See back for complete specs

Output Range

See Back Page

Rated Output Current/Voltage/Duty Cycle

300A/32V/100%

350A/28V/100%

Number of Cylinders

4

HP @ Speed (RPM)

22 HP @ 1800 RPM

Weight/Dimensions (H x W x D)

1035 lbs. (469 kg)

35.9 x 25.3 x 60.0 in.

(913 x 642 x 1524 mm)

44.3 (1124 mm) To Top of Exhaust Tube

Compact, Multi-Process, Excellent Value

The quiet, compact Vantage[®] 300 is an ideal choice for construction teams, pipe rig owners and rental fleet managers.

FEATURES

► Compact Case With Stainless Steel Enclosure

- Small size and light weight is suitable for many pickup trucks. Standard stainless steel roof, side panels and engine-access door deliver added protection and durability.

► Multi-Process Welding, Separate Arc Gouge Mode

- Select one of five Process Modes, including CC-stick up to 3/16 in. (4.8 mm), downhill pipe (for stick), DC Touch Start TIG[®], CV-wire up to 5/64 in. (2.0 mm) or new arc gouging mode which maximizes output with up to 1/4 in. (6.3 mm) carbon rods.
- Digital weld meters included.

► Plenty of AC Generator Power

- 12.5 kW peak (11 kW continuous) 3-Phase 240V AC generator power. Will power industrial equipment such as a plasma cutter, pump or inverter welder.
- 11.5 kW peak (10 kW continuous) 1-phase AC generator power for common construction tools.

► Industrial Diesel Engine

- 4 cylinder 1800 RPM Kubota[®] diesel engine runs smooth and quiet. Standard engine gauges allow you to monitor performance at a glance.
- 20 gallon (76 liter) fuel tank for longer running time.

APPLICATIONS

- Construction
- Pipe
- Maintenance & Repair



Shown: K2409-3

FEATURES, CONT'D.

► Innovative Service Access

- Lockable, removable sliding engine access door provides ample space for engine and oil filter work without requiring a large clearance space on your truck. 55% more access than competitive product.
- Battery drawer on front of machine and top-mounted radiator cover provide convenient access to these systems. Patented tilt down control panel for easy servicing of internal components.

INPUT



OUTPUT



Kubota[®]

CONSTRUCTION
EQUIPMENT

Top 100
new products



Two Year Extended
Warranty Available in
the U.S.A. and Canada.



THE LINCOLN ELECTRIC COMPANY

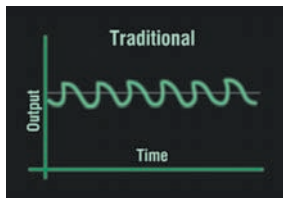
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LINCOLN[®]
ELECTRIC
THE WELDING EXPERTS[®]

Arc Performance

- 300 amps @ 100% duty cycle with output range up to 400 amps. All ratings are at temperatures of 104°F/40°C.


WHAT IS CHOPPER TECHNOLOGY®?



Traditional weld control is more variable around the desired output.



Chopper Technology® delivers extremely fast response for tighter output control.

Patented and award-winning Lincoln Electric  Chopper Technology® delivers superior DC arc welding performance for general purpose stick, downhill pipe, DC TIG, MIG, cored-wire and arc gouging.

Benefits of Chopper Technology® include:

- Easy arc starting
- Smooth arc action
- Low spatter levels
- Excellent bead appearance

- Arc gouging with up to a 1/4 in. (6.3 mm) carbon. A separate arc gouging mode maximizes output.
- VRD™ (Voltage Reduction Device™) reduces OCV (open circuit voltage) in CC-stick welding mode for added safety.

WHAT IS VRD™?

The VRD™ provides additional safety in the CC-stick weld mode, especially when working in an environment with a higher risk of electrical shock such as wet areas and hot, humid, sweaty conditions. The VRD™ reduces the OCV at the welding output terminals while not welding to less than 30 volts DC.

The VRD™ is activated by flipping a toggle switch inside the machine to the “ON” position. Indicator lights monitor the voltage: green for less than 30 volts while not welding, and either red (greater than 30 volts) or green while welding, depending on the actual voltage of the arc.

Other weld modes when VRD™ is on:

- Downhill Pipe – There is no output.
- CV-Wire – OCV is not reduced.
- Touch Start TIG® – No difference in operation. TIG is normally a low voltage (less than 30 volts) operation.



VRD™ portion of nameplate with green light on.

- CC-stick mode is optimized for general purpose stick using E7018 low hydrogen electrode.

- Built-in “hot” start for easier starts and restrikes minimizing the electrode “sticking” to the work.
- Downhill pipe mode has arc force control for enhanced downhill pipe welding. The pipe mode is excellent for cellulosic electrodes and facilitates fast travel speeds, especially on fill passes. Adjust the arc force for a soft, buttery arc or a more forceful digging arc.
- Standard DC Touch Start TIG® welding, not scratch start, for easy arc starting that avoids tungsten contamination and the need for high-frequency equipment.

WHAT IS TOUCH START TIG®?

Touch Start TIG® uses a very low voltage to sense when the tip of the tungsten electrode is touched to the work piece. When this occurs, a complete circuit is established. When the tungsten is then raised from the work piece, the circuit senses a change in voltage and initiates the appropriate welding current and voltage to support the TIG welding process.

Enjoy the added benefits of Lincoln Electric’s Touch Start TIG® when DC TIG welding. Not only do you avoid tungsten contamination when arc starting, but you also don’t need extra high frequency equipment.

- Excellent CV wire welding with cored-wire and MIG (CO₂ and mixed gas).

Generator Performance

- 3-phase 240V AC generator power rated at 12.5 kW peak (11 kW continuous) output to power industrial equipment such as a plasma cutter, pump or inverter welder. Simultaneously weld and use 3-phase AC power – for example, up to 5,300 watts can be delivered while welding at 200 amps. Compare to competitive product which does not have 3-phase power.
- 3-phase 240V receptacle on control panel eliminates the need to hard-wire the connections.
- The Vantage® 300 provides added value at the job site by delivering up to 11.5 kW peak (10 kW continuous) watts of 1-phase AC auxiliary power for equipment such as a Lincoln Electric plasma cutter. Also use for lights, grinders and other common construction tools. And, you can simultaneously weld and have access to AC power – 3,500 watts can be delivered while welding at 250 amps. Compare to competitive product which has no AC generator power at 225 amps welding and above.
- AC generator voltage is constant at 120V or 240V at any weld dial setting.
- Two 120V GFCI (Ground Fault Circuit Interrupter) modules are sealed from moisture for more reliable operation.
- All receptacles are circuit breaker protected. Each receptacle has a spring-loaded weather protective cover which keeps each receptacle protected from the environment when not in use.

SIMULTANEOUS WELDING AND AC GENERATOR POWER

Weld Amps			1 Phase		3 Phase			Simultaneous 1 and 3 Phase		
			Watts	Amps				Watts	Amps	Watts
0	AND	10000	42	OR	11000	27	OR	10000	-	
100		8300	35		8500	20		8300	-	
200		5300	22		5700	14		5300	-	
250		3500	15		3500	8		3500	-	
300		400	2		800	2		400	-	
400		0	0		0	0		0	-	

FEATURES



Single-side engine access with lockable sliding door.



Fuel, oil pressure and engine temperature gauges help you monitor performance.



Output automatically switches to remote mode when remote device is connected. For the **NEW** CC-stick, downhill pipe and Touch Start TIG® modes, the machine output dial becomes a maximum current limit for more fine tuning with the remote control dial or Amptrol™.



Convenient battery tray below control panel.



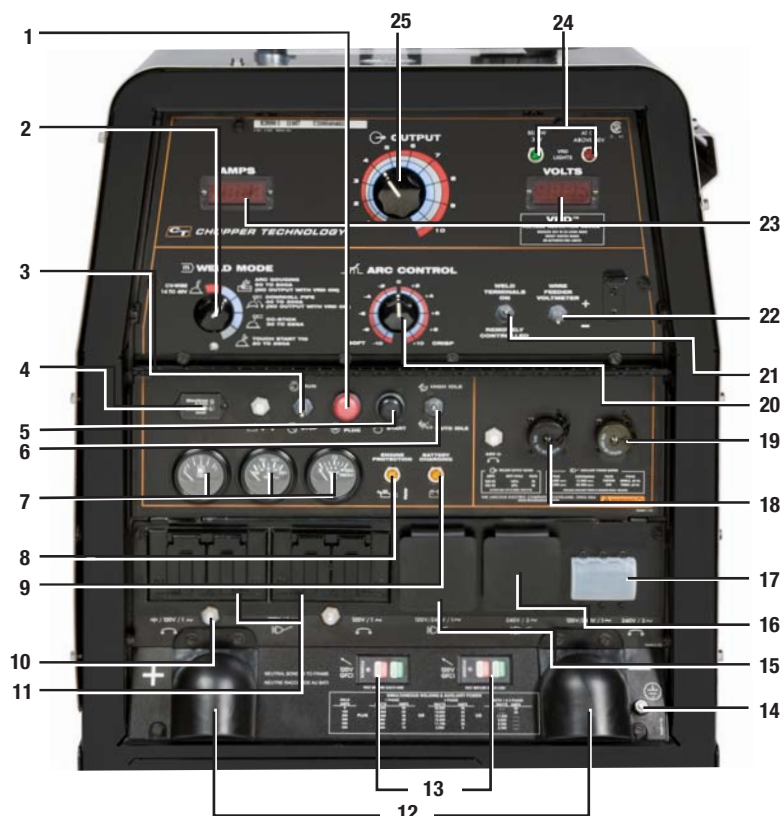
Latched and lockable radiator cap cover.



Handy oil drain valve and tube makes oil changes neat.

- Simple Controls – Keeps training time to a minimum. The flip-down control panel door keeps less frequently used dials out of the way. Scratch-resistant Lexan® nameplate.
- Digital meters for amps and volts output make it easy to precisely set your procedures.
- Large 20 gallon (76 liter) fuel tank provides run time for an extended day – over 16 hours of welding at 300A/32V/100% duty cycle output, or 49 hours at high idle.
- The Kubota® V1505 engine is a 22 horsepower, water-cooled, 4 cylinder diesel engine with an automatic idler for greater fuel economy and reduced noise.
- Engine hour meter makes it easy to schedule maintenance.
- LN-25 Ironworker™ arcross-the-arc wire feeder is a recommended option.
- 14-pin connector for Lincoln Electric wire feeders with control cables: LF-72, LF-74, LN-8, LN-15, LN-25 PRO Dual Power, and LN-742. Also compatible with Magnum® SG spool gun system.
- Two Vantage® 300 units can be paralleled in the CC-stick mode to increase output.
- Kilowatts available for Multi-Weld® 350 use: 4.8 KW @ 60 VDC, 7.0 KW @ 58 VDC.

KEY CONTROLS



1. Glow Plug Button
2. Weld Mode Selector Switch
3. Run/Stop Switch
4. Hour Meter
5. Start Pushbutton
6. Engine Idler Switch
7. Fuel Level, Engine Temperature and Oil Pressure Gauges
8. Engine Protection Light
9. Engine Battery Charging Light
10. 120 VAC Circuit Breakers
11. 120 VAC Receptacles
12. Covered Weld Output Terminals + and -
13. Sealed GFCI Modules
14. Ground Stud
15. 120/240 VAC Full-KVA 1-Phase Receptacle
16. 240 VAC Full-KVA 3-Phase Receptacle
17. Full-KVA 1- & 3-Phase Circuit Breaker
18. 14-Pin Wire Feeder Connector
19. 6-Pin Remote Control Connector
20. Arc Force & Inductance/Pinch Control Dial
21. Welding Terminals Control Switch
22. Wire Feeder Voltmeter Polarity Switch
23. Digital Amps and Volts Output Meters
24. VRD™ Indicator Lights
25. Output Control Dial

Note: Control panel door not shown.

- Simple wire harnessing keeps connections to a minimum for greater reliability. Lead and harness strain reliefs on all control connections help ensure trouble-free performance.
- Engine protection system includes automatic shutdown for low oil pressure or high engine temperature.
- Indicator light turns on for low oil pressure or high engine temperature. A second indicator light turns on if the engine battery charging system malfunctions.
- Circuit breaker protection on the battery ignition system provides added component protection.
- Environmental friendly engine! The engine has a closed breather system to keep the engine compartment and ground clean. This system eliminates oil mist from collecting inside the engine compartment, especially on surfaces that would lower engine cooling efficiency.
- Self-bleeding engine simplifies startup if your fuel tank runs dry.
- Kubota® engine camshaft is gear-driven. No timing belt maintenance.

- Printed circuit boards are environmentally-shielded using Lincoln Electric's engineered potting and protective frame trays.
- Dependability and long life are aided by all-copper windings in rotor and stator with high quality insulation.
- Standard stainless steel roof, side panels and engine-access door deliver added protection, durability and corrosion-resistance. Eliminates the need to paint or replace rusting panels.
- Manufactured under a quality system certified to ISO 9001 requirements and ISO 14001 environmental standards.
- Canadian Standards Association (CSA) certified.
- Three-year Lincoln Electric warranty (parts and labor) on welder (engine is warranted separately by the manufacturer).


MACHINE SPECIFICATIONS

Product Name	Ordering Information	Description	Rated DC Output ⁽¹⁾ Current/Voltage/Duty Cycle	CV Rated Output ⁽¹⁾ Current/Voltage/Duty Cycle	AC Power ⁽³⁾⁽⁴⁾	Dimensions H x W x L inches (mm)	Weight lbs. (kg)
Vantage® 300	K2409-3	300 Amp DC Welder with Engine Gauges 12,500 Watts Peak 11,000 Watts Continuous AC Power 3-Phase 11,500 Watts Peak 10,000 Watts Continuous AC Power 1-Phase	DC Constant Current 300A/32V/100% 350A/28V/100% 30-400 Amps DC Pipe Current 300A/32V/100% 40-300A Touch Start TIG® Range 250A/30V/100% 20-250 Amps Arc Gouge 300A/32V/100% 90-300A Single Dial Continuous Control 60V DC Max OCV @1890 RPM	DC Constant Voltage⁽²⁾ 300A/32V/100% 350A/28V/100% 14-32V Single Dial Continuous Control Wire Feeder Power 120V/60 Hz 42V/60 Hz	12,500 Peak Watts, 60 Hz Two 120V Duplex Receptacles w/ Sealed GFCI <u>Modules</u> 20A Per Duplex 40A Total ⁽⁵⁾ 1-Phase Full KVA Receptacle 42A@240V 42A@120V Each Branch Circuit ⁽⁵⁾ 3-Phase Full KVA <u>Receptacle</u> 27A@240V	35.9 x 25.3 x 60.0 (913 x 642 x 1524) <i>To top of exhaust tube:</i> 44.3 (1124)	1035 lbs. (469 kg)

⁽¹⁾ High Altitude: For maximum rating, derate the output 2.5% to 3.5% for every 1,000 ft. (300 m). High Temperature: For maximum rating, derate 2 volts for every 18°F (10°C) above 104°F (40°C).

⁽²⁾ DC Constant Voltage capability provides convenience and added safety when welding in electrically hazardous conditions.

⁽³⁾ When welding, available AC generator power will be reduced. Output voltage is within +/- 10% at all loads up to rated capacity.

⁽⁴⁾ 120V will operate either 60 Hz or 50/60 Hz power tools, lights, etc.

⁽⁵⁾ Circuits cannot be wired in parallel to operate the same device.

ENGINE SPECIFICATIONS

Product Name	Description	Horsepower & Displacement	Capacities	Operating Speeds	Fuel Consumption
Kubota® V1505 ⁽⁶⁾	4 Cylinder, 4 Cycle Water-Cooled Diesel Engine, 12V Electric Start, Dry Type Air Cleaner, Fuel Filter with Water Separator EPA Tier 4i	22 HP @ 1800 RPM 91 cu in (1.5 ltrs)	FUEL: 20 gals (76 ltrs) OIL: 6.4 qts (6.0 ltrs) RADIATOR COOLANT: 7.2 qts (6.8 ltrs)	300A Load 1800 RPM High Idle 1890 RPM Low Idle 1350 RPM	1.2 Gal/Hr 4.4 Ltr/Hr 0.4 Gal/Hr 1.5 Ltr/Hr 0.3 Gal/Hr 1.1 Ltr/Hr

⁽⁶⁾ Kubota® warranty is 2 years/2,000 hours for machines shipped within the U.S., Canada, Pacific Ocean region and Western Europe. Warranty is 1 year/1,000 hours for Central and South America, Asia, Africa and Middle East.

One-Pak® Welding Package

Order a Lincoln Electric One-Pak® and get everything you need to complete a welding package - all with one order number.
(Package requires assembly.)

Unassembled Package Contains:

- Vantage® 300
- Medium Welder Trailer (K2636-1)
- Duo-Hitch™ 2 in. (51 mm) Ball/Lunette Eye Hitch (included)
- Fender and Light Kit (K2639-1)
- Cable Rack (K2640-1)
- Cable Connectors - two (K2487-1)
- Electrode Cable 2/0, two 50 ft. (15.3 m) lengths (K2485-2)
- Electrode Cable 2/0, 10 ft. (3 m) (K2483-2)
- Work Cable 2/0, 50 ft. (15.3 m) (K2484-2)
- 300A Electrode Holder (K909-7)
- 300A Work Clamp (K910-1)

Order:

K2452-3 Vantage® 300 Kubota® One-Pak® Package



Vantage® 300



K2636-1 Medium Welder Trailer



Duo-Hitch™ 2 in. (51 mm) Ball/Lunette Eye Hitch (included)



K2640-1 Cable Rack (included)

Ready-Pak® Welding Package

Order a Lincoln Electric Ready-Pak® Package and get an **assembled** welding package.

Completely Assembled Package Contains:

- Vantage® 300
- Medium Welder Trailer (K2636-1)
- Duo-Hitch™ 2 in. (51 mm) Ball/Lunette Eye Hitch (included)
- Fender and Light Kit (K2639-1)
- Cable Rack (K2640-1)
- Cable Connectors - two (K2487-1)
- Electrode Cable 2/0, two 50 ft. (15.3 m) lengths (K2485-2)
- Electrode Cable 2/0, 10 ft. (3 m) (K2483-2)
- Work Cable 2/0, 50 ft. (15.3 m) (K2484-2)
- 300A Electrode Holder (K909-7)
- 300A Work Clamp (K910-1)

Order:

K2453-3 Vantage® 300 Kubota® Ready-Pak® Package



Completely Assembled Ready-Pak® Pkg.

RECOMMENDED ACCESSORIES



120V



GENERAL OPTIONS

Power Plug Kit (20A)

Provides four 120V plugs rated at 20 amps each, and one dual voltage, full KVA (1-Phase) plug rated at 120/240V, 50 amps. 120V plug may not be compatible with common household receptacles.
Order K802N



Full-KVA Power Plug (1-Phase)

One dual voltage plug rated at 120/240V, 50 amps. NEMA 14-50P.
Order T12153-9



Full-KVA Power Plug (3-Phase)

One plug rated at 240V, 50 amps. NEMA 15-50P.
Order T12153-10



Full-KVA Adapter Kit (1-Phase)

Provides convenient connection of Lincoln Electric equipment having a 240V AC 1-phase plug (NEMA 6-50P) to the full-KVA receptacle on Lincoln engine-driven welders.
Order K1816-1

Medium Welder Trailer

For heavy-duty road, off-road, plant and yard use. Includes pivoting jack stand, safety chains, and 13 in. (330 mm) wheels. Stiff .120 in. (3.0 mm) welded rectangular steel tube frame construction is phosphate etched and powder coat painted for superior rust and corrosion resistance. Low sway suspension gives outstanding stability with manageable tongue weight. Wheel bearings are packed with high viscosity, high pressure, low washout Lubriplate® grease. Includes a Duo-Hitch™ — a 2 in. (51 mm) Ball/Lunette Eye combination hitch. Overall width 60 in. (1524 mm). Overall length 124 in. (3150 mm).
Order:
K2636-1 Trailer
K2639-1 Fender & Light Kit
K2640-1 Cable Rack



Four-Wheeled Steerable Yard Trailer

For off-road, plant and yard use. Includes an automatically engaging drawbar lock when the drawbar is raised to the verticle position. 13 in. (330 mm) wheels. Wheel bearings are packed with high viscosity, high pressure, low washout Lubriplate® grease. Stiff 3/16 in. (4.8 mm) welded rectangular steel frame construction is phosphate etched and powder-coat painted for superior rust and corrosion resistance. Also includes a Duo-Hitch™ — a 2 in. (51 mm) Ball/Lunette Eye combination hitch. Overall width 55 in. (1397 mm). Overall length 124 in. (3150 mm).
Order K2641-2



Spark Arrestor Kit

Mounts to muffler exhaust tube. Virtually eliminates spark emissions.
Order K1898-1



Digital Weld Meters Kit

Easy-to-read digital meters for volts and amps. Easy to install. (For K2409-1 and K2499-1).
Order K2467-1



Polarity/Multi-Process Switch

For easy polarity switching. Example: DC-stick root pass on pipe & DC+ stick for hot, fill and cap passes. Also for an easy process change. Example: DC+ stick root pass on pipe and DC- Innershield® self-shielded flux-cored wire for hot, fill and cap passes. 6 & 14-pin remote connections can be made to this unit. For all Lincoln Electric Chopper Technology® engine-driven welders. Mounts on roof with K2663-1 Docking Kit.
Order K2642-1



Docking Kit

Secures the K2642-1 Polarity/Multi-Process Switch to the engine-driven welder roof. Release latch permits removal of K2642-1 Polarity/Multi-Process Switch. Made from stainless steel for rust-free operation. For all Lincoln Electric Chopper Technology® engine-driven welders.
Order K2663-1



STICK OPTIONS

Accessory Kit

Includes 35 ft. (10.7 m) 2/0 electrode cable with lug, 30 ft. (9.1 m) 2/0 work cable with lugs, headshield, filter plate, cover plate, work clamp and electrode holder. 400 amp capacity.
Order K704



Remote Output Control

Consists of a control box with choice of two cable lengths. Permits remote adjustment of output.
Order K857 for 25 ft. (7.6 m)
K857-1 for 100 ft. (30.5 m)



Remote Output Control with 120V AC Receptacles

Remote weld output control box with two 120V AC receptacles having GFCI (Ground Fault Circuit Interrupter) protection. One cord for both remote and power. 100 ft. (30.5 m) length. Permits remote adjustment of weld output and power for tools (such as a grinder) at the work. 20 amp capacity.
Order K2627-2



TIG OPTIONS

Pro-Torch™ PTA-26V TIG Torch

Air-cooled 200 amp torch (2 piece) equipped with valve for gas flow control. 25 ft. (7.6 m) length.
Order K1783-9



Magnum® Parts Kit for PTA-26V TIG Torch

Magnum® Parts Kit provides all the torch accessories you need to start welding. Parts Kit provides collets, collet bodies, a back cap, alumina nozzles and tungstens in a variety of sizes, all packaged in an easy to carry reclosable sack.
Order KP509



Foot Amptrol™

Provides 25 ft. (7.6 m) of remote output control for TIG welding. (6-pin plug connection).
Order K870



Hand Amptrol™

Provides 25 ft. (7.6 m) of remote current control for TIG welding. 6-pin plug connection). Velcro straps secure torch.
Order K963-3
(one size fits all Pro-Torch™ TIG Torches)



Square Wave™ TIG 175

For AC TIG Welding with square wave performance, use the AC generator of the engine-driven welder to supply the power (full rated output may not be available). Easy setup. Includes torch, foot Amptrol™ and gas regulator and hose. Requires the K1816-1 Full-KVA Adapter Kit.
Order K1478-5



Invertec® V205-T AC/DC One-Pak® Pkg.

For AC TIG welding with square wave performance, use the AC generator of the engine-driven welder to supply the power. Easy setup. Includes torch, parts kit, regulator and hose kit, Twist Mate™ torch adapter, work cable with Twist Mate™ end and Foot Amptrol™. Requires K1816-1 Full-KVA Adapter Kit.
Order K2350-2

RECOMMENDED ACCESSORIES

WIRE FEEDER OPTIONS



LN-25 Ironworker™ Wire Feeder
Portable CV unit for flux-cored and MIG welding with MAXTRAC® wire drive system. Includes digital meters for wire feed speed/amperage and voltage, gas solenoid, internal contactor and 5/64 in. (2.0 mm) drive roll kit for cored wire. Has 83% reduced wire feed speed capability for 6 o'clock pipe welding with Innershield® wire.
Order K2614-9



Magnum® SG Spool Gun
Hand held semiautomatic wire feeder. Requires SG Control Module and Input Cable.
Order K487-25



SG Control Module
The interface between the power source and the spool gun. Provides control of the wire speed and gas flow. For use with a spool gun.
Order K488



K126 PRO Innershield® Gun
For self-shielded wire with 15 ft. (4.5 m) cable. For .062-5/64 in. (1.6-2.0 mm) wire. Includes K466-10 Connector Kit.
Order K126-12



Input Cable (For SG Control Module)
For Lincoln Electric engine power sources with 14-pin MS-type connection, separate 115V NEMA receptacles and output stud connections.
Order K691-10



Drive Roll and Guide Tube Kit
For .068-.072 in. (1.7-1.8 mm) cored or solid steel wire.
Order KP1697-068



Magnum® PRO 350 Ready-Pak® 15 ft., .035-5/64 in.
Magnum® PRO MIG/flux-cored welding guns are rated 100% duty cycle. The guns are designed for high amperage, high duty cycle applications in extreme environments where heat-resistance and fast serviceability are key.
Order K2652-2-10-45



PLASMA CUTTING
Tomahawk® 1000
Cuts metal using the AC generator power from the engine-driven welder. Requires the T12153-9 Full-KVA Power Plug (1-Phase).
Order K2808-1



Drive Roll and Guide Tube Kit
For .035 in. and .045 in. (0.9-1.1 mm) solid steel wire.
Order KP1696-1

Product Name	Product Number	Rated Output Current/Voltage/ Duty Cycle	Output Range	Engine	Number of Cylinders	HP & Speed (rpm)	H x W x D inches (mm)	Net Weight lbs. (kg)
Vantage® 300	K2409-3	300A/32V/100%	30-400A DC	Kubota® V1505	4	22 @ 1800	35.9 x 25.3 x 60.0	1035
Vantage® 300 One-Pak®	K2452-3	350A/28V/100%	40-300A Pipe	Diesel			(913 x 642 x 1524)	(469)
Vantage® 300 Ready-Pak®	K2453-3		20-250A DC TIG 14-32V CV 90-300A Gouge 3-Phase AC Power: 12.5 kW Peak, 11.0 kW Continuous 1-Phase AC Power: 11.5 kW Peak, 10.0 kW Continuous	EPA Tier 4i			<i>To top of exhaust tube:</i> 44.3 (1124)	

