


NEW!

Vantage® 400

Compact. Multi-process. Excellent Value.

The Vantage® 400 is one of the most compact 400 amp engine-driven welder/generators available to the construction, pipe and rental fleet markets today. It's also one of the quietest, with a smooth-running, 4-cylinder Perkins® diesel engine. Use this multi-process welder for arc gouging with up to 8mm carbons, stick weld with up to 6mm electrodes and CV wire weld with up to 2.4mm wire. Superior arc performance delivered by Lincoln  Chopper Technology™ ensures optimum productivity. You'll also appreciate VRD (Voltage Reduction Device), which reduces OCV (open circuit voltage) in the CC-Stick weld mode for added safety.

This model efficiently generates 13,200 watts of AC generator power for your lights, grinders and power tools. Housed in a rugged, low-maintenance stainless steel enclosure, it's loaded with many innovative service features. It's a power package that's excellent value!



 Perkins

Processes

Stick, TIG, MIG, Flux-cored, Gouging

Description



Advantage Lincoln

- **Multi-Process Welding, Simple to Operate**
 - Select one of four Process Modes, including CC-Stick (up to 6mm), Downhill Pipe (for stick), Touch-Start® DC TIG or CV Wire (up to 2.4mm⁽¹⁾), and then dial in the desired output.
- **Plenty of AC Generator Power**
 - 13.2kw of AC power.
 - Will power industrial equipment such as a plasma cutter, pump or inverter welder.
 - 240 Volt and 415 Volt IP66 rated outlets.
- **Compact Case**
 - One of the most compact 400 amp machines available.
 - Suitable for many pickup and service trucks.
- **Stainless Steel Enclosure**
 - Standard stainless steel roof, side panels and engine-access door deliver added protection and durability.
- **VRD Voltage Reduction Device**
 - Reduced OCV in the CC-Stick weld mode for added safety.

- **Arc Gouging**
 - Arc gouging with up to 8mm carbons.
 - **Reliable Engine**
 - 4 cylinder, 1500 RPM Perkins diesel engine runs smoothly and quietly
 - Standard engine gauges allow you to monitor performance at a glance.
 - **Low Noise**
 - 96 dBA Lwa sound power (71 dBA at 7m) is one of the quietest 400 amp engine-driven welders available.
 - **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.
 - Battery drawer on front of machine and top-mounted radiator cover provide convenient access to these systems.
 - Patent-pending tilt down control panel for easy servicing of internal components.
 - Patent-pending radiator cap cover is latched for easy access and is lockable.
- ⁽¹⁾ 2.4mm E70T-6 up to 260 IPM, 27V

Order

K32038-1 Vantage® 400

TECHNICAL SPECIFICATIONS

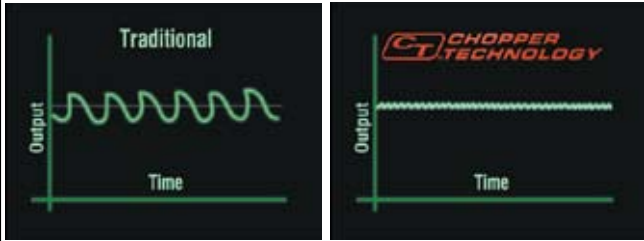
Model	Output Range	Rated Output*	Engine Model	No of Cylinders	HP & Speed (rpm)	Weight Kg	Dimensions H x W x D mm
K32038-1	30 - 400A DC 40 - 300A Pipe 20-250A DC TIG 14-36 CV	350A/34V @ 100% 400A/30V @ 60%	Perkins 404C-22 Diesel	4	28 @ 1500	560	913 x 642 x 1524

PERFORMANCE

Arc Performance

- **350 amps @ 100% duty cycle** with output range up to 400 amps using Chopper Technology™. All ratings are at temperatures of 104°F/40°C.

WHAT IS CHOPPER TECHNOLOGY?



Patented and award-winning Lincoln **CT** 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 Mode** is optimised for superior carbon arc gouging performance with up to 8mm carbons.
 - **VRD (Voltage Reduction Device)** reduces OCV (open circuit voltage) in CC-stick welding mode for added safety.
 - **CC-Stick mode is optimised** for general purpose stick using E7018 low hydrogen electrode.
 - **Built-in “hot” start** for easier starts and restrikes which minimises the electrode “sticking” to the work.
 - **Downhill pipe mode with active arc force control.** Excellent for cellulosic electrodes, it provides fast travel speeds, especially on fill passes. Arc control adjustment for a soft, buttery arc or a more forceful digging arc.
 - **Standard Touch-Start® DC TIG welding** - not scratch start - for easy arc starting that avoids tungsten contamination and the use of high-frequency equipment.

- **Excellent CV wire welding** with cored-wire and MIG (CO₂ and blended gas). 2.4mm E70T-6 up to 260 IPM, 27V.

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’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.

WHAT IS VRD?

The VRD (Voltage Reduction Device) 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 (open circuit voltage) at the welding output terminals, while not welding, to less than 30 volts DC.

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.
- Gouging – 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 32 volts) operation.

Key Controls



1. Glow Plug Button
2. Weld Mode Selector Switch
3. Run/Stop Switch
4. Hour Meter
5. Start Pushbutton
6. Fuel Level, Engine Temperature and Oil Pressure Gauges
7. Engine Protection Light
8. Engine Battery Charging Light
9. Engine Idler Switch
10. 14-Pin Wire Feeder Connector
11. 6-Pin Remote Control Connector
12. Arc Force & Inductance/Pinch Control Dial
13. Welding Terminals Control Switch
14. Wire Feeder Voltmeter Polarity Switch
15. Digital Amps and Volts Output Meters
16. VRD Indicator Lights
17. Output Control Dial

Items not shown

- Output terminals
- 240V receptacle
- 415V receptacle
- Battery isolator switch
- Engine stop

FEATURES

- **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.
- **Lockable battery disconnect** switch provides lockout/tagout capability.
- **Engine stop** to quickly shut the Vantage® 400 down in the event of an emergency.
- **Digital weld meters for amps and volts output** make it easy to precisely set your procedures.
- **Engine hour meter** for scheduled maintenance.
- **14-pin connector for Lincoln wire feeders** LF-72, LF-74, LN™-15, LN™-25 PRO. Also compatible with Magnum SG Spool Gun System.
- **57 litre fuel tank** provides run time for an extended day—over 12 hours of welding at 250A/34V/100% duty cycle output, or 36 hours at high idle.
- **Quality Engine** - 28 horsepower, water-cooled 4 cylinder Perkins 404C-22 diesel engine. Engine has an automatic idler for greater fuel economy and reduced noise.
- **Two Vantage® 400 units can be paralleled** in the CC-Stick Mode to increase output.

QUALITY, RELIABILITY & CONVENIENCE

- **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.
- **Oil drain valve and tube** to direct used engine oil away from base into pan.
- **Closed breather system** keeps 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.
- **Perkins® engine camshaft is gear-driven** - no timing belt maintenance.
- **Printed circuit boards are environmentally-shielded** using Lincoln's engineered potting and protective frame trays.
- **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 certification** - ISO 9001 and ISO 14001 environmental standards.
- **Three-year Lincoln parts and labour Warranty** on welder. (Engine is warranted separately by the manufacturer.)



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.



Convenient slide-out battery drawer below control panel.



Patent-pending latched and lockable radiator cap cover.



Handy oil drain valve and tube makes oil changes easy.

GENERATOR PERFORMANCE

- **The Vantage 400** provides added value at the job site by delivering up to 13.2 kW peak watts of AC auxiliary power for equipment such as a Lincoln plasma cutter or inverter welding power source. Also use for lights, grinders and other common construction tools. You can simultaneously weld and have access to AC power – 4,700 watts can be delivered while welding at 300 amps.
- **240V & 415V Receptacles** are circuit breaker protected and are IP66 rated.

SIMULTANEOUS WELDING & POWER LOADS

Welding Output (Amps)	Permissible Power (Watts)
0	13,200
100	11,000
200	8,000
300	4,700
400	1,700

STICK OPTIONS

Welding Leads

Electrode Lead 10m x 50mm²
c/w twist-lock holder

Order KA1452-8

Work Return Lead 9m x 50mm²
c/w work clamp

Order KA1452-7

Pigtail 50mm²
/w lug and female mechconnector

Order KA1452-1



Remote Output Control

Permits remote adjustment of output.

Order K857 8.5m lead & 6 pin plug
K857-1 30m lead and 6 pin plug

WIRE FEEDER OPTIONS



LF-72 Wire Feeder

A heavy-duty semi-automatic wire feeder designed for CV MIG and FCAW welding.

Order K2327-7



LN™-25 PRO Wire Feeder

Portable CC/CV unit for flux-cored and MIG welding. Includes Gas Solenoid & Internal Contactor.

Order K2613-1A1 includes bonus K126 gun
K2613-1A2 includes bonus Magnum® 400 gun



**Magnum® 350 Innershield® Gun
(for LN™-25 PRO)**

For self-shielded wire with 4.5m cable. For 1.7 - 2.4mm wire.

Order K126

Bash Frame c/w Spill Tray

For improved site protection with built-in spill tray.

Order K32002-2

PLASMA CUTTING OPTIONS



Invertec® PC210

Cuts up to 10mm using the 240V AC generator power from the Vantage® 400.

Order K12038-2



Invertec® PC620

Cuts up to 20mm using the 415V AC generator power from the Vantage® 400.

Order K12029-2



Invertec® V205-T AC/DC

For AC TIG welding with square wave performance, use the AC generator of the engine-driven welder to supply the power. Ready-To-Weld™ package includes everything required to start welding straight away

Order V205TACDC-PKG Ready-To-Weld™ Package

TIG OPTIONS



Powercraft™ PC26G TIG Torch

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

Order PC 26FS-8I-2



Foot Amptrol™

Provides 7.6m of remote output control for TIG welding. (6 pin plug connection).

Order K870



Hand Amptrol™

Provides 7.6m of remote current control for TIG welding. (6 pin plug connection). Velcro straps secure torch.

Order K963-3 (one size fits all TIG Torches)



Medium Welder Trailer

For heavy duty road, off-road, plant and yard applications and includes wheeled jack.

Order K2636-1 Trailer
K2639-1 Mud guard

CUSTOMER ASSISTANCE POLICY

The business of 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 advice or information about their use of our products. We respond to our customers based on the best information in our possession at that time.

Lincoln Electric® is not in a position to warrant or guarantee such advice, and assumes no liability, with respect to such information or advice. We expressly disclaim any warranty of any kind, including any warranty of fitness for any customer's particular purpose, with respect to such information or advice. As a matter of practical consideration, we also cannot assume any responsibility for updating or correcting any such information or advice once it has been given, nor does the provision of information or advice create, expand or alter any warranty with respect to the sale of our products.

Lincoln Electric® is a responsible manufacturer, but the selection and use of specific products sold by Lincoln Electric® is solely within the control of, and remains the sole responsibility of the customer. Many variables beyond the control of Lincoln Electric® affect the results obtained in applying these types of fabrication methods and service requirements.

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