

ADVANTAGE

► 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.



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 the 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!

ADVANTAGES 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.
- 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

PROCESSES

- Stick
- DC TIG
- MIG
- Flux-cored
- Gouging

| Product Name | Model | Output Range | Rated Output* | Engine Model | No of Cylinders | HP & Speed (rpm) | Weight Kg | Dimensions H x W x D mm |
|--|----------------|--------------------------------|-----------------------------------|------------------------|-----------------|------------------|-----------|-------------------------|
| Vantage® 400 | K32038-1 | 30 - 400A DC 40 - 300A Pipe | 350A/34V @ 100% 400A/30V @ 60% | Perkins 404C-22 Diesel | 4 | 28 @ 1500 | 560 | 913 x 642 x 1524 |
| Vantage® 400 inc. Roll Frame/ Spill Tray | K32038-1V-0001 | 20-250A DC TIG 14-36 CV | | | | | | |

Vantage[®] 400

PERFORMANCE

Arc Performance

- ▶ **350 amps @ 100% duty cycle** with an output range of up to 400 amps using Chopper Technology[®]. All ratings are at temperatures of 40°C.
- ▶ **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.
- ▶ **Excellent CV wire welding** with cored-wire and MIG (CO2 and blended gas). Up to 2.4mm E70T-6 up to 260 IPM, 27V.
- ▶ **Standard Touch-Start™ DC TIG welding** - not scratch start - for easy arc starting that avoids tungsten contamination and the use of 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'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.

KEY CONTROLS

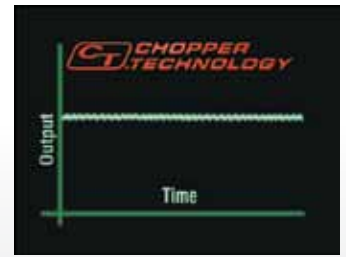
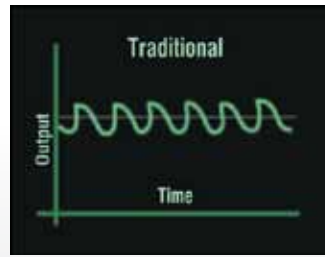



- | | |
|---|---|
| 1. Glow Plug Button | 10. 14-Pin Wire Feeder Connector |
| 2. Weld Mode Selector Switch | 11. 6-Pin Remote Control Connector |
| 3. Run/Stop Switch | 12. Arc Force & Inductance/Pinch Control Dial |
| 4. Hour Meter | 13. Welding Terminals Control Switch |
| 5. Start Pushbutton | 14.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

Items not shown
 Output terminals
 240V receptacle
 415V receptacle

Battery isolator switch
 Engine stop

WHAT IS CHOPPER TECHNOLOGY?



Patented and award-winning Lincoln  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

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 32 volts DC. Indicator lights monitor the voltage: green for less than 32 volts while not welding, and either red (greater than 32 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 32 volts) operation.

FEATURES



Single-side engine access with lockable sliding door.



Convenient slide-out battery drawer below control panel.



Fuel, Oil Pressure and Engine Temperature gauges help you monitor performance.



Patent-pending latched and lockable radiator cap cover.



Output automatically switches to remote mode when remote device is connected.



Handy oil drain valve and tube makes oil changes easy.

- 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 and LF-74, 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.)

RECOMMENDED OPTIONS

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
c/w lug and female mechconnector

Order KA1452-12



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 K2613-5A1 includes bonus K126 PRO gun
K2613-5A2 includes bonus Magnum® 400 gun



K126PRO Innershield® Gun

(for LN™-25 PRO)

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

Order K126-12

Bash Frame c/w Spill Tray

For improved site protection with built-in spill tray.

Order K32070-1

PLASMA CUTTING OPTIONS



Invertec® PC210

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

Order K12038-2



Tomahawk® 1025

Cuts up to 25mm using the 415V AC generator power from the Vantage® 400.

Order K12048-1

TIG OPTIONS



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.

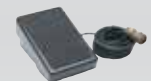
Order K1855-3



Powercraft™ PC26G TIG Torch

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

Order PC 26FS-81-2



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

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Subject to Change - This information is accurate to the best of our knowledge at the time of printing.