

# VANTAGE® 575



## SETTING A NEW STANDARD

If you are looking for a rugged, reliable and capable welder for a demanding construction site, a dependable hire fleet or a quick turnaround repair job, take a close look at the Vantage 575. Simple controls and **CT** Chopper Technology™ deliver the low maintenance, long service life, easy operation and great arc performance every owner appreciates.

This multi-process powerhouse features 450 amps at 100%, or 500 amps at 60% duty cycle, tested at temperatures up to 40°C. Don't pay extra for plenty of AC 240V & 415V auxiliary power – 20,000 watts.

You can depend on legendary engine reliability from Cummins and superior Lincoln arc performance.

## PROCESSES

Stick, TIG, MIG, Flux-Cored, Gouging

## ADVANTAGE LINCOLN

- Simple to Operate – Select one of three Process Modes, including CC-Stick, Touch-Start™ TIG or CV Wire, and then dial in the desired output.
- CC-Stick mode is optimised for general purpose and E7018 low hydrogen electrode.
- Arc control adjustment for a soft, buttery arc or a more forceful, digging arc.
- Touch-Start™ DC TIG welding, for easy arc starting that avoids tungsten contamination and the use of high-frequency.
- 20kVA of auxiliary power will power up to three inverter power sources to give you up to four stick electrode welding arcs for higher productivity.
- Digital meters for amps and volts output make it easy to precisely set your procedures.
- Full instrumentation including Fuel, Oil Pressure, Engine Temperature gauges and hour meter keep you on top of monitoring engine performance.
- Three year Lincoln warranty (engine is warranted separately by the manufacturer).

## FEATURES

- Simple Controls – Keep training time to a minimum with the straight forward control panel of the Vantage 575. The flip-down control panel door keeps less frequently used dials out of the way.
- VRD Device (for additional operator safety) - factory fitted, built-in voltage reduction device (VRD) offers additional protection for the operator. The VRD operates in the CC mode reducing the OCV to a safer <12 volts, increasing operator safety when welding is performed in environments with increased hazard of electric shock.
- 46 horsepower liquid-cooled 4 cylinder Cummins B3.3 engine. Cummins model includes automatic engine idler for greater fuel economy and reduced noise.
- Single-sided engine access for routine maintenance. Double hinged door located on the right side of the machine opens easily in tight surroundings.
- Large 95 litre fuel tank provides run time for an extended day – 13 hours of welding at 450A / 40V / 100% duty cycle output, or 31 hours at high idle.
- Engine hour meter for scheduled maintenance.
- Output at welding terminals controlled by electronic contactor. Can be switched to “Weld Terminals On” or to “Remotely Controlled”.
- Automated Remote Control Capability – Output control is automatically switched from the machine to the remote mode when a remote device is connected. (standard 6 pin connector).
- 14-pin connector for Lincoln wire feeders LN-7, LN-8, LN-23P and LN-742. Also compatible with the NA-3 Control, LT-7 Tractor, Multi-Weld 350 and LN-25.
- Two Vantage 575 units can be paralleled in the CC-Stick Mode to increase output.

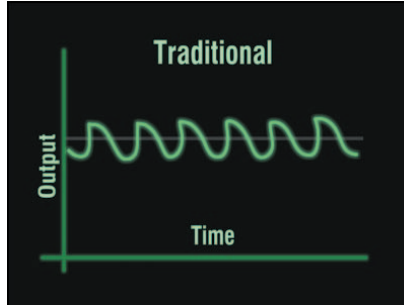
# VANTAGE® 575

## ARC PERFORMANCE

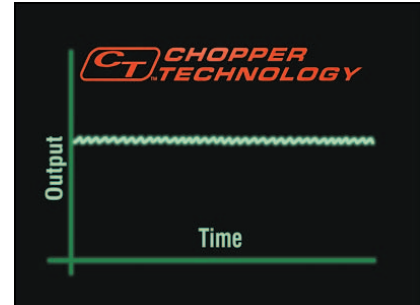
- 450 amps @ 100% duty cycle and capable of 500 amps at 60% duty cycle. All ratings are at temperatures of 40°C.
- Patented and award-winning Lincoln **CT** Chopper Technology delivers superior DC arc welding performance for general purpose stick, DC TIG, MIG, cored-wire and arc gouging. Benefits of Chopper Technology include:
  - Easy arc starting
  - Smooth arc action
  - Low spatter levels
  - Excellent bead appearance
- Touch-Start™ TIG – Enjoy the added benefits of Lincoln’s Touch-Start TIG when DC TIG welding. Not only do you avoid tungsten contamination arc starting, but you also don’t need additional high frequency equipment. Lincoln Touch-Start™ TIG provides voltage-sensing arc cutoff when the torch is lifted at the end of the weld to improve weld quality.
- Arc Gouging - The Vantage 575 is capable of gouging with up to a 9mm carbon rod.

## WHAT IS A CHOPPER TECHNOLOGY?

Lincoln **CT** Chopper Technology provides a smooth, stable arc with easy starts, low spatter and excellent bead appearance.



Traditional weld control is more variable around the desired output.



**CT** Chopper Technology for extremely fast response for tighter output control.

## 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.

## TECHNICAL SPECIFICATIONS

### MACHINE

Part Number	Description	AC Aux Power	Output Range	Duty Cycle	CV Output	Dimensions <sup>(2)</sup> H x W x D (mm)	Net Weight (kg)
K2170-2	Vantage 575	20,000 watts	Continuous Control 30-575 amps	450A, 38V @ 100% 500A, 40V @ 60%	14-40 volts	1295 x 800 x 1600	741
	Receptacles 2 x 240/1/50 15A each <sup>(1)</sup> 1 x 415/3/50 32A		CC/CV range 15-200 amps Touch Start TIG range				

<sup>(1)</sup> Circuits cannot be wired in parallel to operate the same device.

<sup>(2)</sup> Height is to top of muffler: 1067mm case top height

### ENGINE

Engine Mode	Description	Horsepower	Displacement	Capacities
Cummins® B3.3	4 cyl, 4 cycle liquid/coolled diesel engine, 12V electric start Two stage dry tape air cleaner, fuel filter with water separator	46hp @ 1500 rpm	3.3 litres	Fuel: 95 litres Oil: 9 litres

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## QUALITY & RELIABILITY

- Printed circuit boards are trayed and potted to provide a robust environmental shield.
- 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, high engine temperature or low engine alternator voltage
- Indicator light turns on for low oil pressure, 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.
- 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 simplify startup if your fuel tank runs dry. Manual fuel line bleeding is usually not necessary.
- Cummins B3.3 gear driven engines - no timing belt maintenance.
- Three Year Lincoln Warranty. (Engine is warranted separately by the manufacturer.)



Fully Encapsulated PC Board

## A CLOSER LOOK

- 1) Run/Stop Switch
- 2) Start Pushbutton
- 3) Welding Terminals Control Switch
- 4) Wire Feeder Voltmeter Polarity Switch
- 5) Weld Mode Selector Switch
- 6) Hour Meter
- 7) Fuel Level Gauge
- 8) Engine Temperature Gauge
- 9) Oil Pressure Gauge
- 10) Engine Protection Light
- 11) Engine Battery Charging Light
- 12) Output Control Dial
- 13) Digital Amps and Volts Output Meters
- 14) Arc Force & Inductance Pinch Control Dial
- 15) Circuit Breakers
- 16) 240 Volts
- 17) 415 Volts
- 18) Ground Stud
- 19) Covered Weld Output Terminals + and -
- 20) 14-Pin Wire Feeder Connector
- 21) 6-Pin Remote Control Connector
- 22) Idler Switch
- 23) RCD
- 24) 42V/115V Wire Feeder Voltage Switch
- 25) VRD indicator lights

## GENERATOR PERFORMANCE

- The Vantage 575 provides added value at the job site by delivering up to 20,000 watts of AC auxiliary power for equipment such as a Lincoln Procut 25 Plasma cutter. Also use for lights, grinders and other common construction tools. You can simultaneously weld and have access to AC power – The full 20,000 watts can be delivered while welding at up to 90 amps.
- Compare this to the common competitive standard of 4,000 watts. No expensive options are required to add significant generator capacity.
- Two 240V and one 415V receptacles. Circuit breaker protection and IP66 rated.

## SIMULTANEOUS WELDING POWER LOADS

Welding Output (Amps)	Permissible Power (Watts)
0	20,000
90A/24V	18,000
150A/26V	16,000
200A/30V	12,000
350A/34V	8,100
500A/40V	0

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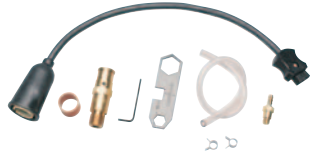
## RECOMMENDED OPTIONS



### Magnum® 400 MIG Gun (for LN-25)

For 1.2mm gas-shielded wire with 4.5m cable.

**Order K471-4**



### Magnum® Gun Connector Kit

Connects Magnum MIG gun to LN-25 Wire Feeder.

**Order K466-1**



### Magnum® 350 Innershield Gun (for LN-25)

For self-shielded wire with 4.5m cable. For 1.6-2.4mm wire.

**Order K126**



### LN-25 Wire Feeder

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

**Order K449**



### Hand Amptrol™

Varies current for making critical TIG welds. Fastens to the torch for convenient thumb control. Comes with a 7.6m cable.

**Order K963-2 (for larger handle 18 or 26 series torches)**



### Remote Output Control

Consists of a control box with a 7.6 m cable. Permits remote adjustment output.

**Order K857**



### Spark Arrester Kit

Easily mounts to standard muffler.

**Order K1847-1**



### Invertec V205-T AC/DC TIG

For AC TIG Welding with square wave performance use the aux output of the Engine-Driven Welder to supply the power. Includes Pulse TIG.

**Order K1855-3**

### Medium Welder Trailer

For heavy-duty road, off-road, plant and yard application. Includes wheeled jack, safety chains, 350mm wheels, and large rear bumper. E-Coated and powder painted for rust & corrosion resistance. Low sway suspension gives outstanding stability.

**Order**

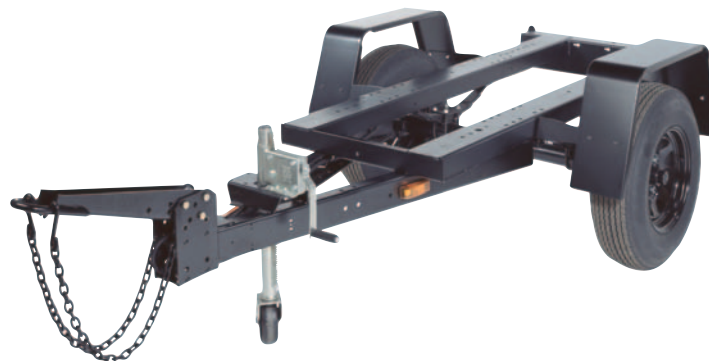
**K953-1 Trailer**

**K958-1 2" Ball Hitch**

**K958-2 Lunette Eye Hitch**

**K959-1 Fender & Light Kit**

**K965-1 Cable Rack**



#### 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 responsibility, 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 responsive 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.

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

### The Lincoln Electric Company (Australia) Pty. Ltd.

35 Bryant Street, Padstow, NSW 2211

Ph: 1300 728 720 (AUST ONLY)

Ph: +61 2 9772 7222

Asia Pacific Head Office

11 Pandan Crescent, Singapore

Ph: +65 6773 6689

**LINCOLN**<sup>®</sup>  
**ELECTRIC**  
THE WELDING EXPERTS

Your local Lincoln distributor is: