COMPACT, MULTI-PROCESS, EXCELLENT VALUE

Vantage® 300

KEY FEATURES

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

- Stainless steel panels offer added durability
- Select one of five welding process modes
- Plenty of AC Generator power
- Tier 4 Final Kubota® diesel engine

Processes »
Stick, TIG, MIG, Flux-Cored, Gouging

Output »

Input »

Product Number »
K2409-4
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.

» 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.

PERFORMANCE

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

WHAT IS VRD™?

VRD portion of nameplate with green light on.

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.
  - OCV is not reduced.
- CV-Wire
  - No difference in operation. TIG is normally a low voltage (less than 30 volts) operation.

- Touch Start TIG

VRD portion of nameplate with green light on.

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

- 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).

SIMULTANEOUS WELDING AND AC GENERATOR POWER

<table>
<thead>
<tr>
<th>Weld Amps</th>
<th>1Phase Watts</th>
<th>3 Phase Watts</th>
<th>Simultaneous 1 and 3 Phase Watts</th>
</tr>
</thead>
<tbody>
<tr>
<td>0</td>
<td>10000</td>
<td>11000</td>
<td>10000</td>
</tr>
<tr>
<td>100</td>
<td>8100</td>
<td>8500</td>
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<tr>
<td>200</td>
<td>5300</td>
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<td>800</td>
<td>400</td>
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<td>400</td>
<td>0</td>
<td>0</td>
<td>0</td>
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</tbody>
</table>

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.
FEATURES

- Single-side engine access with lockable sliding door.
- Convenient battery tray below control panel.
- Fuel, oil pressure and engine temperature gauges help you monitor performance.
- Latched and lockable radiator cap cover.
- Handy oil drain valve and tube makes oil changes neat.
- Output automatically switches to remote mode when remote device is connected. For the 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™.

- 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™ across-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, Activ8™, LN-25 PRO Dual Power, and LN-742. Also compatible with Magnum® 5G 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
QUALITY AND RELIABILITY

- 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 (engine is warranted separately by the manufacturer - see Engine Specifications, footnote 6).

MACHINE SPECIFICATIONS

<table>
<thead>
<tr>
<th>Product Name</th>
<th>Ordering Information</th>
<th>Description</th>
<th>Rated DC Output(1)</th>
<th>CV Rated Output(1)</th>
<th>AC Power(1)(4)</th>
<th>Dimensions (inches)</th>
<th>Weight lbs (kg)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Vantage 300</td>
<td>K2409-4</td>
<td>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</td>
<td>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</td>
<td>DC Constant Voltage(1) 300A/32V/100% 350A/28V/100% 14-12V Single Dial Continuous Control Wire Feeder Power 120V/60 Hz 42V/60 Hz</td>
<td>12,500 Peak Watts, 60 Hz Two 120V Duplex Receptacles w/ Sealed GFCI Modules 20A Per Duplex 40A Total(1) 1-Phase Full KVA Receptacle 42A@240V 42A@120V Each Branch Circuit(2) 3-Phase Full KVA Receptacle 27A@404V</td>
<td>35.9 x 25.3 x 60.0 (913 x 642 x 1524) To top of exhaust tube: 44.3 (1124)</td>
<td>1035 lbs. (469 kg)</td>
</tr>
</tbody>
</table>

(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

<table>
<thead>
<tr>
<th>Engine Model</th>
<th>Description</th>
<th>Horsepower &amp; Displacement</th>
<th>Capacities</th>
<th>Operating Speeds</th>
<th>Fuel Consumption</th>
</tr>
</thead>
<tbody>
<tr>
<td>Kubota V1505(6) EPA Tier 4</td>
<td>4 Cylinder, 4 Cycle Water-Cooled Diesel Engine, 12V Electric Start, Dry Type Air Cleaner, Fuel Filter with Water Separator</td>
<td>22 HP @ 1800 RPM 91 cu in (1.5 ltrs)</td>
<td>FUEL: 20 gals (76 ltrs) OIL: 6.4 qts (6.0 ltrs) RADIATOR COOLANT: 7.2 qts (6.8 ltrs)</td>
<td>300A Load 900 RPM 900 RPM 1890 RPM 1590 RPM</td>
<td>0.2 Gal/hr 4.4 Ltr/hr 0.4 Gal/hr 1.5 Ltr/hr 0.3 Gal/hr 1.1 Ltr/hr</td>
</tr>
</tbody>
</table>

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.
SYSTEM SELECTION

Ready-Pak® Welding Packages (Assembled)
Order:
K2453-5   Vantage 300 Kubota Ready-Pak Package

One-Pak® Welding Packages (Unassembled)
Order:
K2452-5   Vantage 300 Kubota One-Pak Package

Get a welding package with one order number.

Each 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)

One-Pak Welding Packages (Unassembled)
[Only major items shown.]
120V

Shown with optional K2639-1 Fender & Light Kit.

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 K602N

Full-KVA Power Plug (1-Phase)
One dual voltage plug rated at 120/240V, 50 amps. NEMA 14-50P.
Order T1253-9

Full-KVA Power Plug (3-Phase)
One plug rated at 240V, 50 amps. NEMA 9-50P.
Order T1253-10

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 K1916-1

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 coated 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).
For off-road, plant and yard use. Includes pivoting jack stand, safety chains, and 13 in. (330 mm) wheels. Wheel bearings are packed with high viscosity, high pressure, low washout Lubriplate® grease. Stiff. 120 in. (3.0 mm) welded rectangular steel tube frame construction is phosphate etched and powder coated 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 64 in. (1625 mm).
Order K2641-2

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 vertical position. 13 in. (330 mm) wheels. Wheel bearings are packed with high viscosity, high pressure, low washout Lubriplate® grease. 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. Also includes a Duo-Hitch™ — a 2 in. (51 mm) Ball/Lunette Eye combination hitch. Overall width 55 in. (1397 mm). Overall length 64 in. (1625 mm).
Order K2640-1

Staple Arrester Kit
Mounts to muffler exhaust tube. Virtually eliminates spark emissions. Order K3988-1

Digital Weld Meters Kit
Easy-to-read digital meters for volts and amps. Easy to install. [For K2409-1 and K2409-1].
Order K2467-1

Polarity/Multi-Process Switch
For easy polarity switching. Example: DC-stick root pass on pipe & DC-Innershield® self-shielded flux-cored wire 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 K2642-1 Docking Kit.
Order K2642-1

Docking Kit
Order K2643-1

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/ampereage and voltage, gas solenoid, internal contactor and 56 in. (1.4 m) cable. For .062-5/64 in. (1.6-2.0 mm) wire. Includes K466-10 Connector Kit.
Order K614-9

Foot Amptrol™
Provides 25 ft. (7.6 m) of remote output control for TIG welding. [6-pin plug connection].
Order K907

Hand Amptrol™
Provides 25 ft. (7.6 m) of remote output control for TIG welding, 6-pin plug connection. Velcro straps secure torch.
Order K903-3
(one size fits all Pro-Torch™ TIG Torches)

Square Wave TIG 200
This 46 lb [21 kg] TIG and stick welder includes adjustable AC Frequency Control and AC Balance for great results on aluminum, pulse mode and 120V or 230V input power capability.
Order K3262-1

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 KQ389-9

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 tungsten in a variety of sizes, all packaged in an easy to carry re closable sack.
Order K5509

Foot Amptrol™
Provides 25 ft. (7.6 m) of remote output control for TIG welding. [6-pin plug connection].
Order K907

Hand Amptrol™
Provides 25 ft. (7.6 m) of remote output control for TIG welding, 6-pin plug connection. Velcro straps secure torch.
Order K903-3
(one size fits all Pro-Torch™ TIG Torches)

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/ampereage and voltage, gas solenoid, internal contactor and 56 in. (1.4 m) cable. For .062-5/64 in. (1.6-2.0 mm) wire. Includes K466-10 Connector Kit.
Order K614-9

K26 PRO InnerShield™ Gun
For self-shielded wire with 15 ft. [4.5 m] cable. For .062-.084 in. [1.6-2.1 mm] wire. Includes K466-10 Connector Kit.
Order K26-12

Drive Roll and Guide Tube Kit
For .062-.072 in. [1.7-1.8 mm] cored or solid steel wire.
Order KP81-068
Magnum PRO 350 Ready-Pak® 15 ft., .035-.064 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

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

Order KP696-1

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 K408

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

PLASMA CUTTING Tomahawk® 1000 Cuts metal using the AC generator power from the engine-driven welder. Requires the T2193-9 Full-KVA Power Plug (1-Phase).

Order K2808-1

PRODUCT SPECIFICATIONS

<table>
<thead>
<tr>
<th>Product Name</th>
<th>Product Number</th>
<th>Rated Output Current/Voltage/Duty Cycle</th>
<th>Output Range</th>
<th>Engine</th>
<th>Number of Cylinders</th>
<th>HP &amp; Speed (rpm)</th>
<th>H x W x D inches (mm)</th>
<th>Net Weight lbs. (kg)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Vantage 300 One-Pak</td>
<td>K2452-5</td>
<td>300A/320V/100%</td>
<td>30-400A DC</td>
<td>Kubota V1505</td>
<td>4</td>
<td>22 @ 1800</td>
<td>35.9 x 25.3 x 60.0 (913 x 642 x 1524)</td>
<td>1035 (469)</td>
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<tr>
<td>Vantage 300 Ready-Pak</td>
<td>K2453-5</td>
<td>350A/280V/100%</td>
<td>20-250A DC / 40-300A Pipe / 30-300A DC TIG</td>
<td>EPA Tier 4</td>
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<td>14-32V CV / 30-300A Gaug 3-Phase AC Power:</td>
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<td>12.5 kW Peak, 11.0 kW Continuous</td>
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<td>1-Phase AC Power:</td>
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<td>11.5 kW Peak, 10.0 kW Continuous</td>
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</tbody>
</table>


Manufactured at a facility with certified ISO Quality and Environmental Management Systems.

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 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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