

Classic® 300D

Excellent for Pipelines, Construction and Maintenance

The Classic® 300D is popular throughout North America for pipeline, construction and maintenance welding. It features proven, simple and rugged construction, along with Lincoln's well-known pure DC generator design for excellent performance on pipe. The Classic® 300D is offered with a choice of 4-cylinder, water-cooled industrial diesel engines from Perkins® and Kubota®! The Classic® 300D includes 3,000 watts of AC generator power to run grinders and lights. CV wire welding can be added with the optional Wire Feed Module. Also choose from several packages available with trailers.

Processes

Stick, TIG, MIG™, Flux-Cored™, Gouging



Kubota® model shown

Output



Input



Advantage Lincoln

- **Pure DC Generator Welding Output**
 - Produces the welding arc preferred by pipeline operators and contractors for precise code consistency!
- **All Copper Windings**
 - Enhances arc stability for a really smooth, high performance arc.
- **Custom Arc® Dial**
 - Dial in the right arc, right now! Kubota® model includes 150 RPM high idle OCV adjustment for enhanced fine tuning on pipe. (See inside) (Not available on Perkins® model)
- **Five Current Ranges with Overlap**
 - For stick welding and other processes where slope control is desired. Fine-tuning within each range.
- **300 Amps Output @ 60% Duty Cycle**
 - Welds up to 7/32" (5.6 mm) Fleetweld® 5P+, cellulosic and Excalibur® low hydrogen electrode.
- **Reliable Industrial Diesel Engines**
 - 4-Cylinder, water-cooled, 1800 RPM Perkins or Kubota engines run smooth and quiet.
 - Standard engine gauges allow you to monitor performance at a glance.

TECHNICAL SPECIFICATIONS

Product Name	Rated Output Current/Voltage/Duty Cycle	Output Range	Engine Model	No. of Cyl.	HP & Speed (rpm)	Dimensions H x W x D inches (mm)	Net Weight lbs. (kg)
Classic® 300D	250A DC / 30V / 100% 300A DC / 32V / 60%	40-350 DC 3000 watts	Perkins® 404D-22 Diesel NEW EPA Tier 4i	4	32.7 @ 1800	45.5 x 24.0 x 65.0 (1156 x 610 x 1651)	1354 (614) w/ Wire Feed Module 1389 (630)
			Kubota® V2403M Diesel NEW EPA Tier 4i	4	32.5 @ 1800	45.5 x 24.0 x 66.5 (1156 x 610 x 1727)	1329 (603) w/ Wire Feed Module 1364 (619)

(1) With Wire Feed Module. Rated at 300 amps, 35 volts at 60% duty cycle, 325 amps, 34 volts at 35% duty cycle.

PERFORMANCE

Arc Performance

- Pure DC generator welding arc is preferred by pipeliners and contractors for precise control of the arc in demanding code applications.
- All copper windings enhance arc stability for that really smooth high performance arc.
- Custom Arc® — Kubota® model includes 150 RPM High Idle (OCV) Adjustment Range — enhanced fine tuning for performance on pipe.
- 300 amps @ 60% duty cycle. Welds with up to 7/32" (5.6 mm) Fleetweld® 5P+ cellulosic and Excalibur® low hydrogen electrode.
- Arc Gouging with up to 3/16" carbons.

Generator Performance

- 3,000 total watts of AC power from a 115V or 230V duplex receptacle for power tools and lights.
- Circuit breaker protection. 115V AC 20 amp output will operate up to a 9" grinder.
- Weather-protected receptacle covers.
- GFCI (Ground Fault Circuit Interrupter) 115V AC receptacles are standard for added safety.



Use the High Idle (OCV) engine speed adjustment dial to change the heat input to the arc:

- Set the arc in the machine's "sweet spot".
- Dial in a softer or more digging arc.
- Reduce root pass internal undercut, especially on X60 and X70 pipe.
- Stack iron faster with low heat and a clear puddle on fill passes.
- Avoid arc breaks. Avoid slag that crowds the arc.
- Control fusion on the cap pass with good puddle size and clarity.

(Available on Kubota® model only.)

FEATURES

- Choice of two industrial 4-cylinder, smooth-running, water-cooled diesel engines:
 - Perkins® 404D-22
98.1 dB sound power (Lwa) at rated load.
 - Kubota® V2403M
99.9 dB sound power (Lwa) at rated load.
- Gauges indicate oil pressure, engine temperature and battery charging amps.
- Engine hour meter to track scheduled maintenance.
- 15 gallons (57 ltrs) fuel capacity to work an extended day without refueling.
- Oil drain valve and tube are standard.
- Compact size for installation on truck beds.
- Local/Remote switch and receptacle are factory installed for easy connection of the remote control.

Stick Welding

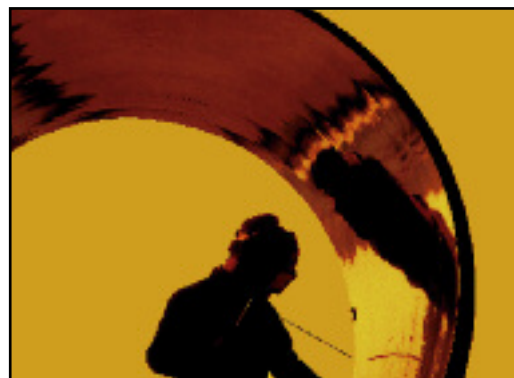
- Optional K924-5 Remote Control Kit for stick welding (for Classic® 300D codes 10911 and higher). Includes Remote Box and 100 ft. cable. Make fine current adjustments up to 100 ft. from the machine.

Wire Welding

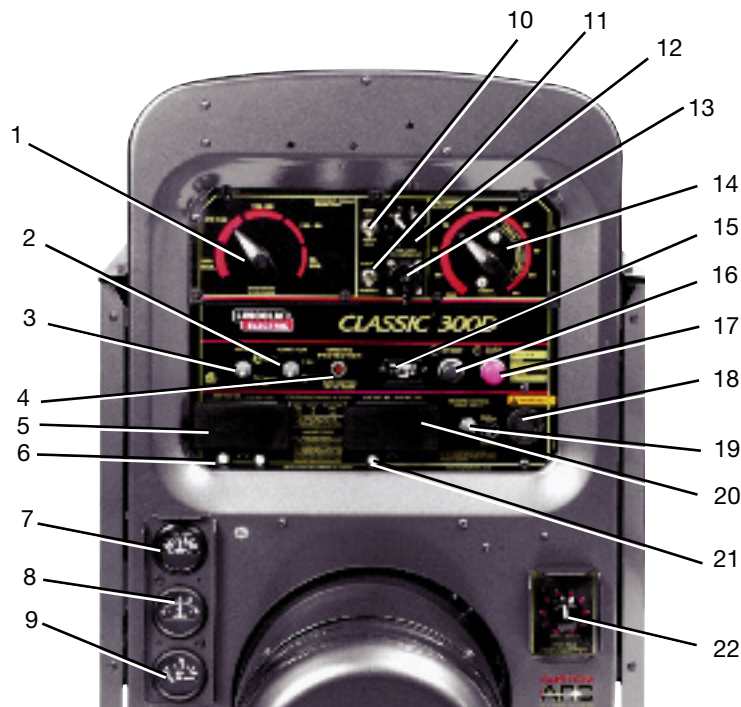
- Optional Wire Feed Module for CV-wire welding. Increases productivity and reduces welding costs. Recommended wire feeders include LN-25 PRO or LN-15 Across-the-Arc models. Module has 14-pin connector for Lincoln wire feeders that use a control cable with 115V AC input: LN-25, LN-23P, LN-7, LN-7 GMA and LN-8. Built-in contactor for "cold-tip" electrode. (When CV wire welding with optional Wire Feed Module, idler may need to be set to "high" position for low current processes.)
- Optional K2464-1 remote control kit for stick and wire welding. For machines that have the Wire Feed Module installed. Make output adjustments up to 100 ft. from the machine.

"After our Local 375 school participated in the evaluation of Lincoln Electric's Classic® 300D, the company generously donated the machine to our facility. As an apprentice program for the Plumbers & Pipefitters Union, we are grateful for the opportunity to use such a high quality piece of equipment. We especially benefit from the Pure DC generator because it produces a superior arc. This characteristic is ideal in pipe welding, therefore, the Classic® 300D allows us to provide our students with exemplary models for their education."

*Bret Helms
Welding Instructor
Local 375 Plumber & Pipefitters*



Key Controls



Kubota® Model Shown
with Wire Feed Module Controls

1. Current Range Selector
2. On/Off Switch
3. Idler Control
4. Engine Protection Light
5. 230V AC Receptacles & Cover
6. 230V Circuit Breakers @ 20 Amps each
7. Engine Temperature Gauge
8. Battery Charging Ammeter
9. Engine Oil Pressure Gauge
10. CC-Stick/CV-Wire Switch
11. Local/Remote Control Wire for CV-Wire
12. CV Voltage Adjustment for Wire Welding
13. 14-Pin Wire Feeder Connector
14. Fine Current Adjustment for Stick Welding
15. Engine Hour Meter
16. Start Button
17. Glow Plug Button
18. Local/Remote Receptacle
19. Local/Remote Control Switch
20. 115V AC Receptacles & Cover
21. 115V Circuit Breaker @ 20 Amps
22. Custom Arc® High Idle RPM (OCV) Adjustment Dial (Kubota® Model only)

QUALITY AND RELIABILITY

- Both engines have glow plugs for cold weather starting.
- Automatic shutdown protection for low oil pressure or high water temperature.
- Electronic engine idler extends engine life and reduces fuel consumption.
- Engine protection/control printed circuit board is trayed and potted to provide a robust environmental shield.
- Single-side engine access for easy routine maintenance.
- Attractive and durable pearlescent gray finish paint.
- Three-year Lincoln warranty. (Engines warranted separately by the manufacturers).
- Manufactured under a quality system certified to ISO 9001 requirements and ISO 14001 environmental standards.
- Approved by Canadian Standards Association (CSA).



Cross-country pipe welding with Classic® 300D.

CLASSIC 300D MACHINE SPECIFICATIONS

Product Name	Ordering Information	Description	Rated DC Output (1) Current / Voltage / Duty Cycle	DC Current Fine Adjustment Range	Auxiliary Power (2)	Dimension & H(3) x W x L	Weight lbs (kg)
Classic® 300D	NEW! K1643-7 (Perkins®)	300 Amp DC Arc Welder	NEMA Ratings 250A / 30V / 100% 300A / 32V / 60%	40 - 350 Amps	3,000 Watts 60 Hz, AC	45.5 x 24.0 x 65.0 in (1156 x 610 x 1651mm)	1354 (614)
	NEW! K1643-8 w/ Wire Feed Module (Perkins®)	All Copper Windings	98V DC MAX OCV	220 - Max 160 - 240 120 - 190 80 - 130 Min - 90	20 Amps @ 115V with GFCI	45.5 x 24.0 x 65.0 in (1156 x 610 x 1651mm)	1389 (630)
	NEW! K1643-9 w/ Custom Arc® (Kubota®)	Pure DC Power Generator			13 Amps @ 230V	45.5 x 24.0 x 66.5 in (1156 x 610 x 1727mm)	1329 (603)
	NEW! K1643-10 w/ Custom Arc® & Wire Feed Module (Kubota®)					45.5 x 24.0 x 66.5 in (1156 x 610 x 1727mm)	1364 (619)

- (1) Based on a 10 minute period. High Altitude: Perkins® - For maximum rating, derate the output 2.5% to 3.5% for every 1,000 ft. (300 m). Kubota – for maximum rating, derate the output 4% for every 1,000 ft (300 m) above 4,900 ft (1500 m).
- (2) 115V will operate either 60 Hz, or 50/60 Hz power tools, lights, etc.
- (3) Height is to top of exhaust elbow.

CLASSIC® 300D ENGINE SPECIFICATIONS

Engine Model	Description	Horsepower & Displacement	Ignition	Capacities	Operating Speeds	Fuel Consumption
Perkins® 404D-22 Diesel (4) NEW! EPA Tier 4i	4 Cylinder 4 Cycle Water-Cooled Diesel Engine Cast Iron Cylinders Block/Crank Case Mechanical Governor	32.7 HP @ 1800 RPM 135.4 cu in (2.2 ltrs)	Compression Ignited	FUEL: 15 Gals (57 Ltrs) OIL: 8.5 Qts (8.0 Ltrs) COOLANT: 9.5 Qts (9.0 Ltrs)	FULL LOAD 300A (1725 RPM) HIGH IDLE 1,800 RPM LOW IDLE 1,400 RPM	1.4 Gals/Hr 5.2 Ltr/Hr 0.4 Gals/Hr 1.6 Ltr/Hr 0.3 Gals/Hr 1.1 Ltr/Hr
Kubota® V2403M Diesel (5) NEW! EPA Tier 4i	4 Cylinder 4 Cycle Water-Cooled Diesel Engine Cast Iron Cylinders Block/Crank Case Electronic Governor	32.5 HP @ 1800 RPM 149 cu in (2.4 ltrs.)	Compression Ignited	FUEL: 15 Gals (57 Ltrs) OIL: 8.0 Qts (7.6 Ltrs) COOLANT: 9.5 Qts (9.0 Ltrs)	FULL LOAD 300A (1800 RPM) HIGH IDLE 1,650-1800 RPM with custom arc dial LOW IDLE 1,400 RPM	1.3 Gals/Hr 5.0 Ltr/Hr 0.5 Gals/Hr 1.7 Ltr/Hr 0.3 Gals/Hr 1.1 Ltr/Hr

- (4) Perkins® warranty is 2 years/2,000 hours, all components, 3 years major components. See warranty for details.
- (5) Kubota® engine warranty for U.S. and Canada is 2 years/2,000 hours, 3 years major components. Some limitations exist for Canada. See warranty statement for details.

SYSTEM SELECTION

One-Pak® Welding Packages

Order a Lincoln One-Pak® and get everything you need to complete a welding package — all with one order number.
(Packages are not assembled.)

Each UNASSEMBLED Package Contains:

- Classic® 300D (See Order Number Below)
- NEW!** • Medium Welder Trailer (K2636-1)
- NEW!** • Duo-Hitch™ 2" Ball/Lunette Eye Hitch (included)
- NEW!** • Fender and Light Kit (K2639-1)
- NEW!** • 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:

- NEW!** **K1864-3** Classic® 300D Perkins® One-Pak® Package
- NEW!** **K2386-3** Classic® 300D Kubota® One-Pak® Package



Classic® 300D



K2636-1 Medium Welder Trailer



Duo-Hitch™ 2" Ball/Lunette Eye Hitch (included)



K2640-1 Cable Rack

Ready-Pak® Welding Packages

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

Each COMPLETELY ASSEMBLED Package Contains:

- Classic® 300D (See Order Number Below)
- NEW!** • Medium Welder Trailer (K2636-1)
- NEW!** • Duo-Hitch™ 2" Ball/Lunette Eye Hitch (included)
- NEW!** • Fender and Light Kit (K2639-1)
- NEW!** • 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:

- NEW!** **K2242-3** Classic® 300D Perkins® Ready-Pak® Package
- NEW!** **K2387-3** Classic® 300D Kubota® Ready-Pak® Package



Completely Assembled Ready-Pak®

RECOMMENDED OPTIONS



115 Volt

GENERAL OPTIONS

Power Plug Kit

Provides two 115V plugs rated at 20 amps each, and two 230V plugs rated at 15 amps each. 115V plugs may not be compatible with common household receptacles.
Order K802D



Spark Arrestor Kit

Attaches to muffler exhaust tube. Virtually eliminates spark emissions.
Order K903-1

NEW Medium Welder Trailer



For heavy-duty road, off-road, plant and yard use. Includes pivoting jack stand, safety chains, and 13" wheels. Stiff .120" 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" Ball/Lunette Eye combination hitch. Overall width: 60".

Order:

K2636-1 Trailer
K2639-1 Fender & Light Kit
K2640-1 Cable Rack

Service Indicator Kit



Provides a GO/NO-GO visual indication of air cleaner element useful service life. Filter service based on restriction readings allows the longest life possible from the filter and best engine protection.
Order K1858-1

Stainless Steel Sheet Metal Kit

Stainless steel roof and doors. Also includes decals (mounted), door latches, door hooks, bumpers and all required mounting hardware. Fits K6090-9 and -10 Pipeliner® 200D and K1643-1 thru -10 Classic® 300D
Order K2423-1

STICK OPTIONS

Accessory Kit



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



Remote Control Kit

Contains remote control rheostat, and 100 ft. (30.5m) control cable.
Order K924-5

TIG OPTIONS

PTA-26V TIG Torch



Air-Cooled 200 amp torch equipped with valve for gas flow control. 25 ft. 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 pack.
Order KP509

TIG Module



Portable, high frequency unit with gas valve for TIG welding. Rated at 300 amps/60% duty cycle.
Order K930-2

Control Cable



Connects welder and TIG Module controls.
Order K936-4

Control Cable Extension



Allows the TIG Module to be operated at distances up to 200 ft. (61.9m) from the power source. 45 ft. (13.7m) length.
Order K937-45

Arc Start™ Switch



Needed if an Amptrol® is not used when TIG welding. Comes with a 25 ft. (7.6m) cable. Attaches to the TIG torch for convenient finger control.
Order K814

Contacter Kit



For use with TIG Module and Classic 300D.
Order K938-1

Water Valve Kit



For use with a water-cooled TIG torch. Installs inside of TIG Module.
Order K844-1

WIRE FEEDER OPTIONS



Wire Feed Module
Provides constant voltage (CV) output with excellent arc stability for Innershield welding and MIG welding. Easy installation. Recommended wire feeders are the LN-25 and the LN-23P.
Order K623-1



Remote Control Kit (Stick & Wire)
For Classic & Pipeliner machines that have the wire feed module. Contains a rheostat for stick output, a potentiometer for wire output and 100 ft. (30.5m) of control cable.
Order K2464-1



NEW! LN-25 PRO Wire Feeder
Portable CC/CV unit for flux-cored and MIG welding with MAXTRAC® wire drive system. Includes Gas Solenoid & Internal Contactor. Requires Wire Feed Module.
Order K2613-1



Magnum® 350 Innershield® Gun (for LN-25 PRO)
For self-shielded wire with 15 ft. (4.5 m) cable. For .062"-3/32" (1.6-2.8 mm) wire.
Order K126-2



Drive Roll and Guide Tube Kit (for LN-25 PRO,)
For cored or solid steel wire.
Order KP1697-068
for .068"-.072" (1.8 mm)
KP1697-5/64
for 5/64" (2.0 mm)



Magnum® 300 MIG Gun
For .035"-.045" (0.9-1.2 mm) gas-shielded wire with 15 ft. (4.5m) cable.
LN-25 PRO
Order K1802-1
(includes Connector Kit)



Drive Roll and Guide Tube Kit (for LN-25 PRO)
For .035" and .045" (0.9-1.1 mm) solid steel wire.
Order KP1696-1

WIRE FEEDER CONT.



NEW! LN-23P Wire Feeder
Portable CV unit for Innershield pipe welding. Includes drive rolls and guide tubes. Requires K2393-1 or -2 Input Cable Assembly and Magnum® Innershield® Gun.
Order K316L-2



NEW! Input Cable Assembly for LN-23P
8-socket to 14-pin control cable with lugged electrode cable for K316L-2 LN-23P Wire Feeder.
Order K2393-1 25 ft. (7.6 m)
K2393-1 75 ft. (22.9 m)



Magnum® 350 Innershield® Gun (for LN-23P)
Rated 350 amps, 60% duty cycle. For .068"-5/64" (1.7-2.0 mm) Innershield® wire and includes reduced speed switch. **Order K345-10**



Magnum® SG Spool Gun
Hand held semiautomatic wire feeder. Requires SG Control Module.
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



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

CLASSIC® 300D ORDER FORM

PRODUCT DESCRIPTION	ORDER NUMBER	QUANTITY	PRICE
NEW! CLASSIC® 300D PERKINS®	K1643-7		
NEW! CLASSIC® 300D PERKINS® W/ WIRE FEED MODULE	K1643-8		
NEW! CLASSIC® 300D PERKINS® ONE-PAK®	K1864-3		
NEW! CLASSIC® 300D PERKINS® READY-PAK®	K2242-3		
NEW! CLASSIC® 300D KUBOTA®	K1643-9		
NEW! CLASSIC® 300D KUBOTA® W/ WIRE FEED MODULE	K1643-10		
NEW! CLASSIC® 300D KUBOTA® ONE-PAK®	K2386-3		
NEW! CLASSIC® 300D KUBOTA® READY-PAK®	K2387-3		
RECOMMENDED GENERAL OPTIONS			
Power Plug Kit (20 Amps)	K802D		
Spark Arrestor Kit	K903-1		
NEW! Medium Welder Trailer with Duo-Hitch™ 2" Ball/Lunette Eye Hitch	K2636-1		
NEW! - Fender & Light Kit	K2639-1		
NEW! - Cable Rack	K2640-1		
Service Indicator Kit	K1858-1		
Stainless Steel Sheet Metal Kit	K2423-1		
RECOMMENDED STICK OPTIONS			
Accessory Kit	K704		
Remote Control Kit	K924-5		
RECOMMENDED TIG OPTIONS			
PTA-26V Pro-Torch™ TIG Torch	K1783-9		
Magnum® TIG Torch Parts Kit	KP509		
TIG Module	K930-2		
Control Cable (required)	K936-4		
Control Cable Extension	K937-45		
Arc Start™ Switch (required)	K814		
Contact Kit (required)	K938-1		
Water Valve Kit	K844-1		
RECOMMENDED WIRE FEEDER OPTIONS			
Wire Feed Module	K623-1		
NEW! LN-25 PRO Wire Feeder	K2613-1		
Remote Control Kit	K2464-1		
Magnum® 350 Innershield® Welding Gun	K126-2		
Drive Roll and Guide Tube Kit, .068"-.072" (for LN-25 PRO)	KP1697-068		
Drive Roll and Guide Tube Kit, 5/64" (for LN-25 PRO)	KP1697-5/64		
Magnum® 300 MIG Gun — for LN-25 PRO (includes Connector Kit)	K1802-1		
Drive Roll and Guide Tube Kit (for LN-25 PRO)	KP1696-1		
NEW! LN-23P Wire Feeder	K316L-2		
NEW! - Input Cable Assembly, 25 ft. (7.6 m)	K2393-1		
NEW! - Input Cable Assembly, 50 ft. (15.2 m)	K2393-2		
Magnum® 350 Innershield® Welding Gun	K345-10		
Magnum® SG Spool Gun	K487-25		
- SG Control Module	K488		
- Input Cable (for SG Control Module)	K691-10		
TOTAL:			

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.

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. Please refer to www.lincolnelectric.com for any updated information.



THE LINCOLN ELECTRIC COMPANY®

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