

Classic[®] 300D

Excellent Performance on Pipe

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⁽¹⁾, Flux-Cored⁽¹⁾, Gouging



Kubota model shown

Output



Input



**CUSTOM
ARC**
Dial In The Right Arc, Right Now.

Advantage Lincoln

- 300 amps @ 60% duty cycle. Welds with up to 7/32" (5.6mm) Fleetweld[®] 5P+ cellulosic and Excalibur[®] low hydrogen electrode.
- 3000 watts of AC auxiliary power.
- Pure DC generator welding arc is preferred by pipeliners and contractors for precise code consistency!
- All copper windings enhance arc stability for that really smooth high performance arc.
- Five current ranges with overlap for stick pipe welding and other processes where slope control is desired. Fine-tuning within each range.
- Choice of two industrial 4-cylinder, smooth-running, water-cooled diesel engines:
 - Perkins 404C-22
 - Kubota V2203M
- Custom Arc™ — Dial in the Right Arc, Right Now. Kubota model includes 150 RPM high idle OCV adjustment — enhanced fine tuning for performance on pipe! (see inside)
- Local/Remote switch and receptacle are factory installed.
- Three-year warranty on parts and labor (engines warranted separately by engine manufacturers).

(1) With Wire Feed Module.

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 404C-22 Diesel	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 V2203M Diesel	4	32.5 @ 1800	45.5 x 24.0 x 66.5 (1156 x 610 x 1727)	1320 (599) w/ Wire Feed Module 1355 (615)

PERFORMANCE

Arc Performance

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

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.)

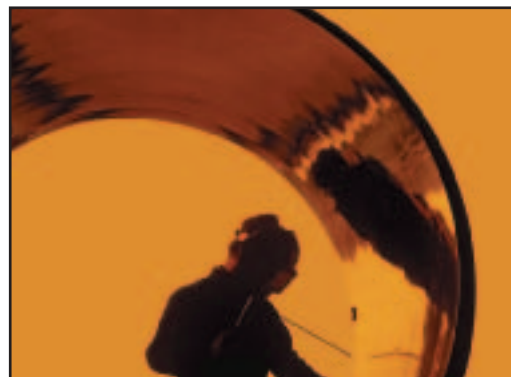
FEATURES

- Choice of two industrial 4-cylinder, smooth-running, water-cooled diesel engines:
 - Perkins 404C-22
98.1 dB sound power (Lwa) at rated load.
 - Kubota V2203M
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.

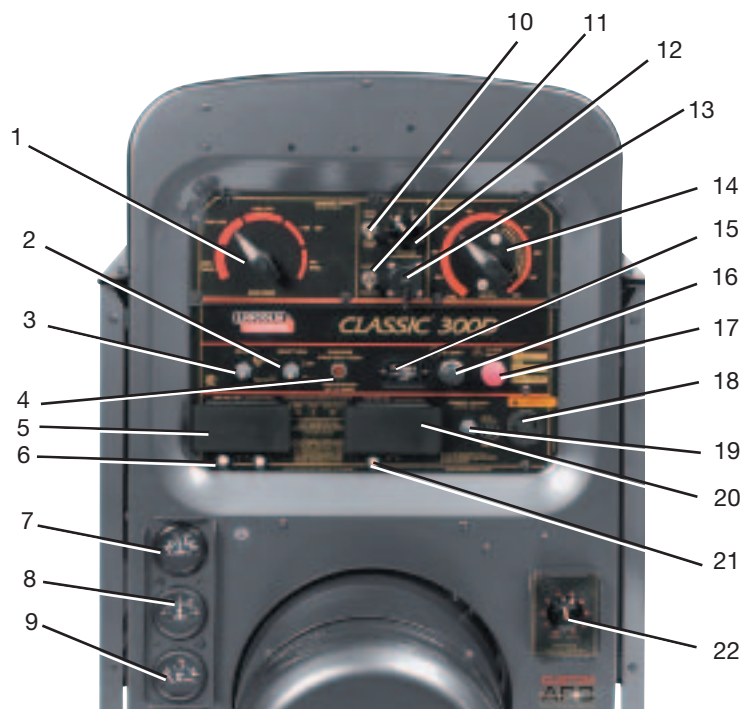
- Optional Wire Feed Module for CV-wire welding. Increases productivity and reduces welding costs. Recommended wire feeders include LN-25 or LN-15 Across-the-Arc models. Module has 14-pin connector for Lincoln wire feeders that use a control cable with 115V AC input: LN-25, LN-23P, LN-7, LN-7 GMA and 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 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.
- Compact size for installation on truck beds.
- Optional road trailer system is available:
 - K953-1 Trailer
 - K958-1 2" Ball Hitch
 - K958-2 Lunette Eye Hitch
 - K959-1 Fender & Light Kit
 - K965-1 Cable Storage Rack

"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 Switch for CV-Wire
12. CV Voltage Adjustment for Stick 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).

A CLOSER LOOK

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	K1643-3 (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)
	K1643-4 w/ Wire Feed Module (Perkins)	All Copper Windings Pure DC Power Generator	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)
	K1643-5 (Kubota) w/ Custom Arc				13 Amps @ 230V	45.5 x 24.0 x 66.5 in (1156 x 610 x 1727mm)	1320 (599)
	K1643-6 w/ Custom Arc & Wire Feed Module (Kubota)					45.5 x 24.0 x 66.5 in (1156 x 610 x 1727mm)	1355 (615)

- (1) Based on a 10 minute period.
 (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 404C-22 Diesel (4)	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: 11.2 Qts (10.6 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 V2203M Diesel (5)	4 Cylinder 4 Cycle Water-Cooled Diesel Engine Cast Iron Cylinders Block/Crank Case Electronic Governor	32.5 HP @ 1800 RPM 134.1 cu in (2.2 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)
- Medium Welder Trailer (K953-1)
- Hitch (See Order Number Below)
- Fender and Light Kit (K959-1)
- Cable Rack (K965-1)
- Cable Connectors - two (K2487-1)
- Electrode Cable 2/0, two 50 ft. (15.3m) lengths (K2485-2)
- Electrode Cable 2/0, 10 ft. (3m) (K2483-2)
- Work Cable 2/0, 50 ft. (15.3m) (K2484-2)
- 300A Electrode Holder (K909-7)
- 300A Work Clamp (K910-1)

Order:

- K1864-1** Classic 300D Perkins One-Pak with Ball Hitch
- K1864-2** Classic 300D Perkins One-Pak with Lunette Eye Hitch
- K2386-1** Classic 300D Kubota One-Pak with Ball Hitch
- K2386-2** Classic 300D Kubota One-Pak with Lunette Eye Hitch



Classic 300D



K953-1 Medium Welder Trailer



K958-1 2" Ball Hitch



K958-2 Lunette Eye Hitch

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)
- Medium Welder Trailer (K953-1)
- Hitch (See Order Number Below)
- Fender and Light Kit (K959-1)
- Cable Rack (K965-1)
- Cable Connectors - two (K2487-1)
- Electrode Cable 2/0, two 50 ft. (15.3m) lengths (K2485-2)
- Electrode Cable 2/0, 10 ft. (3m) (K2483-2)
- Work Cable 2/0, 50 ft. (15.3m) (K2484-2)
- 300A Electrode Holder (K909-7)
- 300A Work Clamp (K910-1)
- 1/8" Excalibur™ 7018 — Six 10 lb. Easy Open Cans (ED028482)

Order:

- K2242-1** Classic 300D Perkins Ready-Pak™ with Ball Hitch
- K2242-2** Classic 300D Perkins Ready-Pak™ with Lunette Eye Hitch
- K2387-1** Classic 300D Kubota Ready-Pak™ with Ball Hitch
- K2387-2** Classic 300D Kubota Ready-Pak™ with Lunette Eye Hitch



Completely Assembled Ready-Pak™

RECOMMENDED OPTIONS



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 between muffler and exhaust elbow. Virtually eliminates spark emissions.

Order K903-1



Medium Welder Trailer

For heavy-duty road, off-road, plant and yard applications. Includes wheeled jack, safety chains, 14" wheels, and large rear bumper. Stiff 3/16" steel frame, E-Coated and powder painted for rust & corrosion resistance. Low sway suspension gives outstanding stability with manageable tongue weight. E-Z Lube™ Axle-pack wheel bearings with a grease gun. 57" max. width for stability with easy tracking.

Order:

K953-1 Trailer

K958-1 2" Ball Hitch

K958-2 Lunette Eye Hitch

K959-1 Fender & Light Kit

K965-1 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

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



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



Contactor Kit

For use with TIG Module and Classic 300D.

Order K938-1



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



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



LN-25 Wire Feeder
Portable CC/CV unit for flux-cored and MIG welding. Includes Gas Solenoid & Internal Contactor. Requires Wire Feed Module.



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



Drive Roll and Guide Tube Kit (for LN-25,)
For .068 - 3/32" (1.8 - 2.4mm) cored or solid steel wire.
Order KP653-3/32



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



Drive Roll and Guide Tube Kit (for LN-25)
For .035 - .040" (0.9 - 1.0mm) solid steel wire.
Order KP653-035S



LN-23P Adapter Kit
Required to adapt LN-23P to any Lincoln power source. Makes 14 pin connection at power source.
Order K350-1

WIRE FEEDER CONT.



LN-23P Wire Feeder
Portable CV unit for Innershield pipe welding. Control cable operates contactor inside Wire Feed Module for "cold" electrode. Includes drive rolls and guide tubes. Requires LN-23P Adapter Kit (K350-1) and Gun and Cable Assembly.
Order K316L-1



Magnum® 250 Innershield Gun (for LN-23P)
For lighter weight and easier handling. Rated 250 amps, 60% duty cycle. For .068 - 5/64" (1.7 - 2.0 mm) Innershield wire and includes reduced speed switch. For pipe welding, a KP1909-1 62° gun tube is recommended.
Order K355-10



62° Gun Tube for Pipe Welding
Recommended modification for K355-X or K345-X guns with 90° gun tubes. Allows more natural positioning for out-of-position pipe welding. Compatible with K126-1, K126-2, K264-8 and K355-10. Current capacity up to 350 amps. Recommended diameters: .062 - 3/32" (1.6-2.8mm).
Order KP1909-1



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
CLASSIC 300D PERKINS	K1643-3		
CLASSIC 300D PERKINS W/ WIRE FEED MODULE	K1643-4		
CLASSIC 300D PERKINS ONE-PAK WITH BALL HITCH	K1864-1		
CLASSIC 300D PERKINS ONE-PAK WITH LUNETTE EYE HITCH	K1864-2		
CLASSIC 300D PERKINS READY-PAK™ WITH BALL HITCH	K2242-1		
CLASSIC 300D PERKINS READY-PAK™ WITH LUNETTE EYE HITCH	K2242-2		
CLASSIC 300D KUBOTA	K1643-5		
CLASSIC 300D KUBOTA W/ WIRE FEED MODULE	K1643-6		
CLASSIC 300D KUBOTA ONE-PAK WITH BALL HITCH	K2386-1		
CLASSIC 300D KUBOTA ONE-PAK WITH LUNETTE EYE HITCH	K2386-2		
CLASSIC 300D KUBOTA READY-PAK™ WITH BALL HITCH	K2387-1		
CLASSIC 300D KUBOTA READY-PAK™ WITH LUNETTE EYE HITCH	K2387-2		
RECOMMENDED GENERAL OPTIONS			
Power Plug Kit (20 Amps)	K802D		
Spark Arrestor Kit	K903-1		
Medium Welder Trailer	K953-1		
- Ball Hitch	K958-1		
- Lunette Eye Hitch	K958-2		
- Fender & Light Kit	K959-1		
- Cable Rack (fits K953-1)	K965-1		
Service Indicator Kit	K1858-1		
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		
Arc Start Switch (required)	K814		
Contactors Kit (required)	K938-1		
Control Cable Extension	K937-45		
Water Valve Kit	K844-1		
RECOMMENDED WIRE FEEDER OPTIONS			
Wire Feed Module	K623-1		
LN-25 Wire Feeder	K449		
Remote Control Kit	K2464-1		
Magnum® 350 Innershield® Welding Gun	K126-2		
Drive Roll and Guide Tube Kit (for LN-25,)	KP653-3/32		
Magnum® 300 MIG Gun — for LN-25 (includes Connector Kit)	K1802-1		
Drive Roll and Guide Tube Kit (for LN-25)	KP653-035S		
LN-23P Wire Feeder	K316L-1		
- LN-23P Adapter Kit	K350-1		
Magnum® 250 Innershield® Welding Gun	K355-10		
62° Gun Tube for Pipe Welding	KP1909-1		
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 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 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.

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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