

Classic[®] 300D

Excellent Performance on Pipe

The Classic 300D is popular throughout North America for pipeline, construction and maintenance welding. It features well-proven, simple and rugged construction, along with Lincoln's well-known pure DC generator design for excellent performance on pipe. The Classic 300D is now offered with a choice of industrial diesel engines, Perkins and Kubota! Both choices are 4-cylinder, water-cooled. These engines are well suited for a variety of working environments. Both products include 3,000 watts of AC generator power to run grinders and lights. CV wire welding can be added with the optional Wire Feed Module. For fleet operators there are several packages available with trailers.



Kubota model shown



Dial In The Right Arc, Right Now.

Processes

Stick TIG MIG⁽¹⁾ Flux-Cored⁽¹⁾ Gouging

Advantage Lincoln

- 300 amps @ 60% duty cycle. Welds up to 7/32" (5.6mm) cellulosic and 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 **NEW!**
 - Kubota V2203M **NEW!**
- 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) **NEW!**
- Local/Remote switch and receptacle are factory installed. **NEW!**
- Three-year warranty on parts and labor (engines warranted separately by engine manufacturers).

⁽¹⁾ With Wire Feed Module.

Description

Output    Input 

Recommended General Options

Power Plug Kit, GFCI Receptacle Kit, Spark Arrestor, Medium Welder Trailer, Service Indicator Kit

Recommended Stick Options

Accessory Kit, Remote Control Kit

Recommended TIG Options

TIG Module, PTA-26V Pro-Torch™ TIG Torch, Magnum® TIG Torch Parts Kit, Control Cable, Arc Start Switch, Contactor Kit, Control Cable Extension, Water Valve Kit

Recommended Wire Feeder Options

Wire Feed Module, LN-25 Wire Feeder, Remote Voltage Control Kit, Magnum® 350 Innershield Gun (for LN-25), Drive Roll Kit, Magnum® 300 MIG Gun (for LN-25) LN-23P Wire Feeder, LN-23P Adapter Kit, Magnum® 250 Innershield Gun (for LN-23P), 62° Gun Tube for Pipe Welding, Magnum SG Spool Gun, SG Control Module, Input Cable

Order

K1643-3 Classic 300D Perkins
 K1643-4 Classic 300D Perkins with Wire Feed Module
 K1864-1 Classic 300D Perkins One-Pak w/ Ball Hitch
 K1864-2 Classic 300D Perkins One-Pak w/ Lunette Eye Hitch
 K2242-1 Classic 300D Perkins Ready-Pak w/ Ball Hitch
 K2242-2 Classic 300D Perkins Ready-Pak w/ Lunette Eye Hitch
 K1643-5 Classic 300D Kubota
 K1643-6 Classic 300D Kubota with Wire Feed Module
 K2386-1 Classic 300D Kubota One-Pak w/ Ball Hitch
 K2386-2 Classic 300D Kubota One-Pak w/ Lunette Eye Hitch
 K2387-1 Classic 300D Kubota Ready-Pak w/ Ball Hitch
 K2387-2 Classic 300D Kubota Ready-Pak w/ Lunette Eye Hitch

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 up to 7/32" (5.6mm) 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.

NEW!

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 on Perkins model for added safety. To be standard on Kubota model in near future.
- Optional K1690-1 GFCI Kit available.



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.)

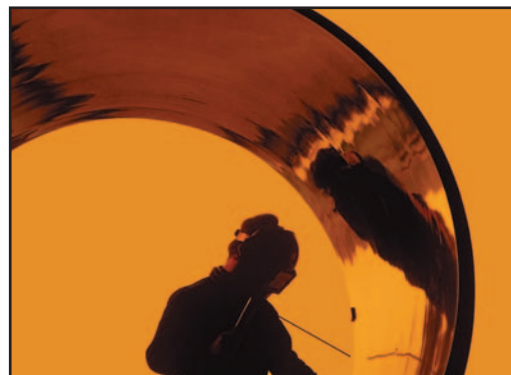
FEATURES

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

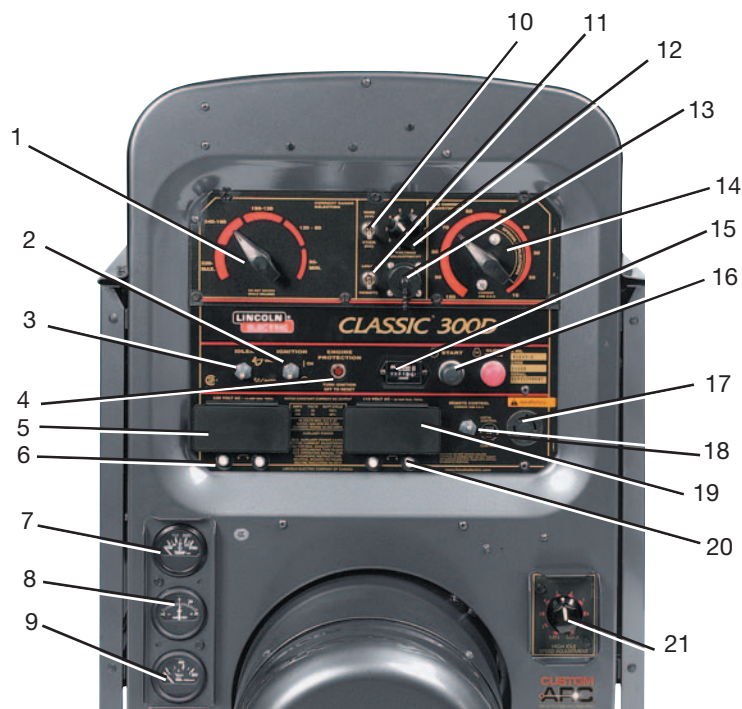
"After our Local 375 school participated in the evaluation of Lincoln Electric's Classic 300D, the company generously donated the machine to our facility. As an apprentice program for the Plumbers & Pipefitters Union, we are grateful for the opportunity to use such a high quality piece of equipment. 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*



A CLOSER LOOK

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
13. 14-Pin Wire Feeder Connector
14. Fine Current Adjustment
15. Engine Hour Meter
16. Start Button
17. Local/Remote Receptacle **NEW!**
18. Local/Remote Control Switch **NEW!**
19. 115V AC Receptacles & Cover
20. 115V Circuit Breakers @ 20 Amps each
21. Custom Arc™ High Idle RPM (OCV) **NEW!** 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.
- 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	26 Amps @ 115V Non-GFCI	45.5 x 24.0 x 65.0 in (1156 x 610 x 1651mm)	1389 (630)
	K1643-5 (Kubota) w/ Custom Arc				20 Amps @ 115V with GFCI	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)				13 Amps @ 230V	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 1,800 RPM 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)
- Electrode Cable 2/0, 100 ft. (L-2/0-100-11)
- Work Cable 2/0, 100 ft. (L-2/0-100-11-11)
- 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)
- Electrode Cable 2/0, 100 ft. (L-2/0-100-11)
- Work Cable 2/0, 100 ft. (L-2/0-100-11-11)
- 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™

GENERAL OPTIONS



115 Volt

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 NEMA common household receptacles.
Order K802D



GFCI Receptacle Kit (Kubota Model)
Includes one UL approved 115V ground fault circuit interrupter duplex type receptacle and installation instructions. Replaces the factory installed 115V duplex receptacle. Each receptacle of the GFCI duplex is rated at 20 amps. Maximum total current from the GFCI duplex is limited to 20 amps.
Order K1690-1



Spark Arrestor Kit
Attaches between muffler and exhaust elbow.
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

STICK OPTIONS CONT.



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

TIG OPTIONS



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



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



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



LN-25 Wire Feeder
Portable CC/CV unit for flux-cored and MIG welding. Includes Gas Solenoid & Internal Contactor. Requires Wire Feed Module.
Order K449



Remote Control Voltage Kit for LN-25
Provides 25 ft. (7.5m) of remote output voltage control and output jumper (2 and 4) for machines having 14 pin MS-type connector.
Order K444-2



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

WIRE FEEDER CONT.



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



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 KUBOTA	K1643-5		
CLASSIC 300D KUBOTA W/ WIRE FEED MODULE	K1643-6		
RECOMMENDED GENERAL OPTIONS			
Power Plug Kit (20 Amps)	K802D		
GFCI Receptacle Kit (Kubota Model)	K1690-1		
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			
TIG Module	K930-2		
PTA-26V Pro-Torch™ TIG Torch	K1783-9		
Magnum® TIG Torch Parts Kit	KP509		
Control Cable (required)	K936-4		
Arc Start Switch (required)	K814		
Contact 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 Voltage Control Kit	K444-2		
Magnum® 350 Innershield® Welding Gun	K126-2		
Drive Roll and Guide Tube Kit (for LN-25, LN-23P)	KP653-3/32		
Magnum® 300 MIG Gun — for LN-25 (includes Connector Kit)	K1802-1		
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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