

LE31MP™ Multiprocess Welder

Processes

MIG, Flux-Cored, Stick, DC TIG,
Aluminum with a Spool Gun

Product Number

K3461-1

Input Power

120/1/60

Input Current at Rated Output

20 A

Rated Output Current/Voltage/Duty Cycle

95 A / 18.75 V @ 60% MIG

115 A / 14.6 V @ 60% TIG

80 A / 23.2 V @ 60% Stick

Output Range

30 - 140 A MIG

25 - 90 A Stick

10 - 120 A TIG

40-500 WFS (1.3-12.7 m/min)

Weight/Dimensions (H x W x D)

34.5 lbs. (15.6 kg)

13.6 x 8.9 x 18.1 in.

(345 x 224 x 460 mm)

Multiprocess Wirefeeder Welder

This Lincoln Electric LE31MP™ lightweight and portable welder connects to 120 volt power and is an excellent choice for MIG, STICK, Spool Gun, Flux-Cored, or TIG welding. The intuitive user interface, easy setup, and full list of accessories permits welding in no-time.

BENEFITS

► MIG

- Wide 30-140 amp welding output for MIG, FCAW and Spool Gun allows for welding on 24 to 5/16 material.
- Durable cast aluminum gear box delivers added torque and quiet operation, and brass-to-brass gun connection enhances conductivity.
- Smooth arc starts and a forgiving arc makes dialing in your application easy.

► TIG - Torch and foot pedal sold separately

- The wide 10-120 amp range permits welding on thin and thick steel and stainless.
- Weld with or without a foot pedal, the machine will automatically detect and configure when a foot pedal is connected.
- Easy arc starts and optional patent pending TIG torch assembly eliminate the need for a manually controlled gas valve.

► STICK

- Smooth arc starts prevent sticking.
- Heavy duty electrode holder and cable included.
- Great for repair.

APPLICATIONS

- Shop
- Farm
- Home
- Autobody



Shown K3461-1

WHAT'S INCLUDED

Gun

- Magnum® PRO 100L gun and 10 ft. (3.0 m) cable assembly with brass connection and 8-pin trigger connector (K530-7).
- .025 in. (0.6 mm) tapered contact tips (Qty 3) (KH831)
- .035 in. (0.9 mm) tapered contact tips (Qty. 3) (KH833)
- Gasless nozzle for Innershield® welding (KH836)
- Gas nozzle for MIG welding (KH835)
- Spindle adapter for 8 in. (203 mm) diameter spools (KH720)
- .025 - .035 in. (0.6 - 0.9 mm) wire diameter dual track drive roll for MIG and flux-cored welding (KP2948-1)

Shielding Gas Apparatus

- Harris® 3000290 Gas Regulator (S25805) and 52 in. (1.3 m) hose (S19303) for use with Ar/CO₂ blend gases. For use with CO₂ shielding gas, order a Lincoln Electric S19298 CO₂ shielding gas bottle adapter.

Welding Wire

- Sample spool of .025 in. (0.6 mm) diameter SuperArc® L-56® premium MIG wire
- Sample spool of .035 in. (0.9 mm) diameter Innershield® NR®-211-MP flux-cored wire

INPUT



120 V
INPUT

OUTPUT



Two Year Extended
Warranty Available in
the U.S.A. and Canada.

Other

- Work clamp and 10 ft. (3.0 m) cable
- Instruction manual
- Quick Start guide
- Electrode holder with 10 ft. cable for stick welding



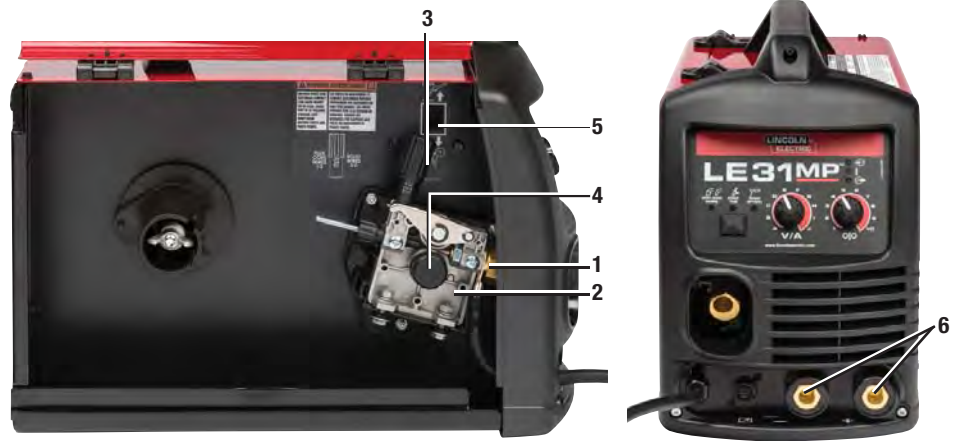
HEAVY DUTY WIRE DRIVE – ENHANCED QUALITY AND EASY TO USE

Enhanced Quality

1. Brass-to-brass gun connection enhances conductivity.
2. Rigid drive aids wire alignment. The cast aluminum body with an enclosed multi-stage gear box delivers improved torque and quiet operation.

Easy to Use

3. Easy-turn drive tension adjustment with numeric tension indicators.
4. Fast tool-less drive roll changeovers. The dual track drive roll ensures positive flux-cored wire feeding with common wire diameters.
5. Spool gun ready switch allows user to select spool gun or standard push gun drive operation.
6. Oversized twist connectors for durability.



PERFORMANCE PLUS

Process	Wire Dia. (in.)	24ga.	22ga.	20ga.	18ga.	16ga.	14ga.	12ga.	10ga.	3/16"	1/4"	5/16"
Flux-Cored Welding – Steel	.030											
	.035											
MIG Welding – Steel	.025											
	.030											
	.035											
MIG Welding – Aluminum ⁽¹⁾	.035											

⁽¹⁾ Aluminum welding requires optional K4360-1 Magnum® PRO spool gun.

SP - Single Pass
MP - Multiple Pass

DRIVE ROLLS

Product Number	Wire Diameter in. (mm)	Process
KP2948-1	.025-.035 (0.6-0.9)	MIG/Flux-Cored
KP3285-1	.035-.045 (0.9-1.1)	Flux-Cored

RECOMMENDED ACCESSORIES

GENERAL OPTIONS

Welding Cart

Full-featured cart is designed to store and transport a welder, 80 cubic foot gas cylinder, welding cables and accessories. Includes an angled top shelf for easy access to welder controls, a lower tray for added storage space, a sturdy handle also used as a convenient cable wrap hanger.

Order K2275-3

Ready to weld PTA-9 TIG Torch

Light and easy to use, these torches give you the power of maximum versatility and maneuverability. A molded, knurled handle gives you a sure grip so you can focus on the

weld. Whether you are an occasional TIG welder, fabrication shop or production welder, Pro-Torch™ TIG torches are right for you. Order K1782-16

Foot Pedal

This TIG foot pedal controls the amperage when TIG welding with LE31MP. Depress pedal to increase current. Depressing pedal fully achieves maximum set current. Fully raising the pedal finishes the weld and starts the After flow cycle. This foot pedal will give the optimum amperage needed for any TIG welding project.

Order K4361-1

WIRE FEEDER OPTIONS

Magnum® PRO 100SG Spool Gun

Designed to easily feed 4 in. (102 mm) diameter 1 lb. (0.45 kg) spools of .030 in. (0.8 mm) or .035 in. (0.9 mm) diameter SuperGlaze® aluminum MIG wire. Includes gun, adapter kit, .035 in. (0.9 mm) contact tips (qty. 3), gas nozzle, and a 1 lb. (0.45 kg) spool of SuperGlaze® 4043 .035 in. (0.9 mm) MIG wire. Packaged in a convenient carrying case.

Order K4360-1

PRODUCT SPECIFICATIONS

Product Name	Product Number	Input Power	Rated Output Current/Voltage/Duty Cycle	Input Current @ Rated Output	Output Range	H x W x D inches (mm)	Net Weight lbs. (kg)
LE31MP™	K3461-1	120/1/60	95 A / 18.75 V / 60% MIG 115 A / 14.6 V / 60% TIG 80 A / 23.2 V / 60% Stick	20A	30-140 Amps DC MIG 25-90 Amps Stick 10-120 Amps TIG 40-500 ipm WFS	13.6 x 8.9 x 18.1 in. (345 x 224 x 460mm)	34.5 (15.6)

For best welding results with Lincoln Electric equipment, always use Lincoln Electric consumables.
Visit www.lincolnelectric.com for more details.

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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THE WELDING EXPERTS®