POWER MIG® 360MP
THE MULTI-PROCESS WORKHORSE

More than just a MIG machine, the POWER MIG 360MP is the professional-grade multi-process welding system for you. This machine is capable of Stick, TIG, MIG and Flux-Cored welding, and is packed with advanced features such as MIG and TIG Pulse Welding, Ready.Set.Weld® set up, ArcFX® technology and Memory Capability. All of these features are communicated through an easy-to-use, highly visible, 7-Inch color display.

WIRE FEEDER/WELDERS

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

Applications »
Education, Metal Fabrication, Maintenance and Repair, Auto Body, Light Industrial

Output »

Input »

Product Numbers »
K4467-1 POWER MIG 360MP
K4662-1 POWER MIG 360MP
Aluminum Rear Trigger One-Pak® for Trailer Manufacturing
K4663-1 POWER MIG 360MP
Aluminum Rear Trigger One-Pak for Auto Body Repair
K4778-1 POWER MIG 360MP Multi-Process Educational One-Pak
VALUE-ADDED FEATURES

- **7-Inch Color Display** - Enhances communication between operator and machine.
- **Aluminum Pulse Process** - Welds 4XXX and 5XXX series aluminum for superior quality welding.
- **Multi-Process Capable** - Welds MIG, flux-cored, stick, TIG, pulsed MIG, and advanced processes like Pulse-On-Pulse® and Power Mode®.
- **Pulse-on-Pulse** - Delivers a stacked dime appearance when welding aluminum.
- **Power Mode (Mode 40)** - Maintains a stable, smooth arc for short arc welding on steel. Improved penetration on thicker aluminum sections.
- **Synergic Control** - Set weld procedures with one control.
- **Rugged MAXTRAC® Industrial Wire Drive** - Allows for constant wire feed speed and consistent welds.
- **3 Ways to Feed Aluminum** - Electronics built in for all three methods using a Push Gun, Spool Gun or a Push-Pull Gun.

**ADVANCED OPTIONS**

- **Run-In**: Adjusts initial wire feed speed for smooth arc starting.
- **Thickness**: Adjusts thickness, the display is to scale.
- **Pre Flow**: Allows a time to be selected for shielding gas to flow after the trigger is pulled, prior to establishing an arc.
- **Arc Control**: Adjusts the focus or shape of the arc and resultant weld bead size.
- **Spot Timer**: Adjusts arc time for tack and spot welds.
- **Trigger**: Choose between 2 and 4 step.
- **Post Flow**: Allows a time to be selected for shielding gas to continue to flow after the trigger is released and output current is turned off.
- **Start**: This machine provides the option of setting a Starting Procedure to start the weld, and from there, to ramp to the welding procedure over a specified amount of time.
- **Burn Back**: Provides manual adjustment of the burnback time for any selected welding mode.
- **Save**: Save settings.
- **Crater Time**: Ability to set an endpoint for WFS and Voltage that will be reached over a specified time period.
- **Frequency**: Adjusts the frequency of the pulse wave.
- **Hot Start**: Increases amperage at arc start initialization.
- **Arc Force**: Controls penetration profile from soft arc to crisp arc.
- **TIG Pulse**: Minimize burn through on thin materials.
- **Pinch**: Increasing the pinch control results in a crisper arc while decreasing the pinch control provides a softer arc.
**LINCOLN ELECTRIC INNOVATIONS FOR CHALLENGING APPLICATIONS**

The Waveform Control Technology® feature makes it possible to take advantage of Lincoln Electric innovations like these processes:

**Pulse-on-Pulse**

![Pulse-On-Pulse on 3 mm Aluminum](image)

Pulse-On-Pulse Mode uses a sequence of varying pulse wave shapes to produce a TIG-like bead appearance and excellent weld properties when MIG welding aluminum. Pulse-On-Pulse controls arc length and heat input together, making it easier to achieve good penetration.

**Power Mode (Mode 40)**

![Power Mode reduces spatter and improves bead appearance, even for low voltage procedures on stainless.](image)

![Power Mode aids bead wetting and penetration on aluminum.](image)

**Power Mode** uses high-speed regulation of output power to deliver extremely fast response to changes in the arc, for example, when using a whip technique. The result is improved MIG welding performance, including low spatter, more uniform, consistent bead wetting and controlled penetration. Power Mode benefits are especially apparent on low voltage applications on thin steel and stainless steel material.

**Trim**

Trim adjusts the arc length and ranges from 0.50 to 1.50 with a nominal value of 1.00. Trim values greater than 1.00 increase the arc length, while values less than 1.00 decrease the arc length.

**Pulsed MIG**

![Pulsed MIG Mode](image)

Pulsed MIG Mode varies weld current between peak (high heat) and background (low heat) current to provide better control of heat input, which minimizes warping and burnthrough on thin materials. Pulsed MIG also enables flat, horizontal, vertical up, or overhead welding without a slag system. Optimized GMAW-P waveforms are readily available to use on aluminum, carbon steel, high strength low alloy steel, stainless steel, and nickel alloys.

**TIG Pulse**

Use pulse TIG welding to help minimize burn through on thin materials. It can help to increase travel speed and result in smaller bead width. Lower heat input may lessen warpage of parts, especially stainless steel materials.

TIG pulse can be turned on or off in the advanced options menu. The TIG Pulse feature has a single knob control which sets the pulse frequency over the range of 0.5-19.5 Hz, or 17.6-303 Hz. The pulse setting automatically regulates the output current between the peak amperage set by the amptrol (if used) and the background amperage, which is equal to 60% of the peak. The peak pulse % on-time is fixed at 50%. 
# CONTACT TIPS AND LINERS

<table>
<thead>
<tr>
<th>Wire Diameter - in. (mm)</th>
<th>Description</th>
<th>Order No.</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>FOR STEEL/STAINLESS STEEL/SILICON BRONZE</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>0.045 (1.2)</td>
<td>350A Contact Tips Tapered (10)</td>
<td>KP2744-045T</td>
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<tr>
<td>0.035 (0.9)</td>
<td>350A Contact Tips Tapered (10)</td>
<td>KP2744-035T</td>
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<tr>
<td>0.030 (0.8)</td>
<td>350A Contact Tips Tapered (10)</td>
<td>KP2744-030T</td>
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<tr>
<td>0.025 (0.6)</td>
<td>350A Contact Tips Tapered (10)</td>
<td>KP2744-025T</td>
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<tr>
<td>0.035 - 0.045 (0.9 - 1.2)</td>
<td>Magnum PRO Curve™ 15° Liner Solid Wire (1)</td>
<td>KP44-3545-15</td>
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<tr>
<td><strong>FOR ALUMINUM</strong></td>
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<tr>
<td>0.035 (0.9)</td>
<td>550A Contact Tips Aluminum (10)</td>
<td>KP2745-035AT</td>
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<tr>
<td>3/64 (1.2)</td>
<td>550A Contact Tips Aluminum (10)</td>
<td>KP2745-364AT</td>
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<tr>
<td>3/64 (1.2)</td>
<td>550A Contact Tips 6XXX Series Aluminum (10)</td>
<td>KP2745-364AT5356</td>
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<tr>
<td>0.030 - 1/16 (0.8 - 1.6)</td>
<td>Magnum PRO AL Push-Pull Conduit Gun Liner 25 ft (7.6 m) (1)</td>
<td>KP3991-25</td>
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<tr>
<td>1/16 (1.6)</td>
<td>Magnum PRO AL Gooseneck Jump Liner (5)</td>
<td>KP3376-1</td>
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<tr>
<td>0.035 - 3/64 (0.9 - 1.2)</td>
<td>Magnum PRO AL Gooseneck Jump Liner (5)</td>
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# NOZZLES AND DIFFUSERS

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<tr>
<th>Nozzle Diameter - in. (mm)</th>
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<tbody>
<tr>
<td><strong>350A</strong></td>
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<tr>
<td>0.375 (9.5)</td>
<td>Thread-on Flush Nozzle</td>
<td>KP2742-1-38F</td>
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<tr>
<td>0.5 (12.7)</td>
<td>Thread-on Flush Nozzle</td>
<td>KP2742-1-50F</td>
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<tr>
<td>0.375 (9.5)</td>
<td>Thread-on Recessed Nozzle</td>
<td>KP2742-1-38R</td>
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<tr>
<td>0.5 (12.7)</td>
<td>Thread-on Recessed Nozzle</td>
<td>KP2742-1-50R</td>
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<tr>
<td>–</td>
<td>Steel Thread-on Nozzle</td>
<td>KP2746-1</td>
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<tr>
<td><strong>550A</strong></td>
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<tr>
<td>0.625 (15.9)</td>
<td>Thread-on Flush Nozzle</td>
<td>KP2743-1-62F</td>
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<td>0.75 (19.0)</td>
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<td>0.75 (19.0)</td>
<td>Thread-on Recessed Nozzle</td>
<td>KP2743-1-75R</td>
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<tr>
<td>–</td>
<td>Steel Thread-on Diffuser</td>
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<tr>
<td>–</td>
<td>Aluminum Thread-on Diffuser</td>
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*For more options, please refer to the Magnum PRO Instruction Manual.*

# DRIVE ROLL KITS

<table>
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<th>Wire Type</th>
<th>Wire Diameter - in. (mm)</th>
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<td>0.023 - 0.030 (0.6 - 0.8)</td>
<td>KP1696-030S</td>
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<td>0.035 (0.9)</td>
<td>KP1696-035S</td>
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<td>0.035 / 0.045 Combination</td>
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<td>0.040 (1.0)</td>
<td>KP1696-2</td>
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<td>0.045 (1.2)</td>
<td>KP1696-045S</td>
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<tr>
<td><strong>Cored</strong></td>
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<td>0.035 (0.9)</td>
<td>KP1697-035C</td>
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<td>0.045 (1.2)</td>
<td>KP1697-045C</td>
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<td><strong>Aluminum</strong></td>
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<td>0.035 (0.9)</td>
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<tr>
<td></td>
<td>3/64 (1.2)</td>
<td>KP1695-364A</td>
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</table>

*Shown: KP1697-035C, Cored Drive Roll Kit*
GENERAL OPTIONS
Canvas Cover
Protect your POWER MIG welder when not in use. Made from red canvas that is flame retardant, mildew resistant and water repellent. Fits any POWER MIG machine with or without a gas cylinder in the cylinder rack. Will not fit if spool gun holder is attached to the machine.
Order K3675-1

STICK OPTIONS
Accessory Kit
Complete kit for stick welding. Includes 30 ft. (9.1 m) electrode cable, 25 ft. (7.6 m) work cable, headshield, work clamp and electrode holder.
Order K875 for 150 amps
Order K704 for 400 amps

TIG OPTIONS
PTA-17 150 Amp Air-Cooled TIG Torch
Order K1782-2 for 12.5 ft. (3.8 m) length, 2-cable
Order K1782-4 for 25 ft. (7.6 m) length, 2-cable

PTA-26 200 Amp Air-Cooled TIG Torch
Order K1789-2 for 12.5 ft. (3.8 m) length, 2-cable
Order K1789-4 for 25 ft. (7.6 m) length, 2-cable

Parts Kits
Magnum Parts Kits provide all the torch accessories you need to start welding. Parts kits provide collets, collet bodies, a back cap, alumina nozzles and tangstems in a variety of sizes, all packaged in an easy to carry resealable box.
Order KP508 for PTA-17
Order KP509 for PTA-26

Wire Feeder Options
Fast-Mate™ Adapter
Allows guns with a Fast-Mate™ type back end to plug into a POWER MIG® welder.
Order K489-8

Magnum PRO250LX Spool Gun
280 amps, 60% duty cycle. Feeds 0.025-3/64 in. (0.6-1.2 mm) diameter aluminum wire on 2 lb. (0.9 kg) spools. With remote wire feed speed control. 25 ft. (7.6 m) cable.
Order K3570-2

Harris® Aluminum Flow/Regulator
355-2CD 100-580
Order 3100546

Spool Gun Holder
Provides neat storage of spool gun cable, and gas hose on POWER MIG.
Order K1738-1

Magnum PRO AL Air-Cooled and Magnum PRO AL Water-Cooled Push-Pull Guns
The Magnum PRO AL gooseneck-style guns are designed to optimize a push-pull welding operation for aluminum. Uses Magnum PRO MIG Gun expendables.
Order
Request Publication E12.14

Cougar® Pistol-Grip Air-Cooled Push-Pull Guns
Cougar push-pull guns are intended for those operators who prefer an upright pistol-grip design for aluminum welding fabrication or production. Feature Sure-Grip™ handle, integrated strain relief and multi-turn potentiometer. Rated 300A @ 60% duty cycle w/Argon.
Order K2704-2 Air-Cooled, 25 ft. (7.6 m)
Order K2704-3 Air-Cooled, 50 ft. (15.2 m)

Spindle Adapter for Small Spools
Permits 8 in. (200 mm) D.D. spools to be mounted on 2 in. (51 mm) D.D. spindles.
Order K468

Spindle Adapter for 14lb Coils
Permits 14 lb. (6 kg) Innershield® coils to be mounted on 2 in (51mm) O.D. spindles.
Order K435

Readi-Reel™ Adapter
Adapts 22-30 lb. (10-14 kg) Lincoln Readi-Reels® of electrode to 2 in (51mm) spindle.
Order K363P
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 their 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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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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www.lincolnelectric.com

PRODUCT SPECIFICATIONS

<table>
<thead>
<tr>
<th>Product Name</th>
<th>Product Number</th>
<th>Input Power</th>
<th>Rated Output Current/Voltage/Duty Cycle</th>
<th>Input Current @ Rated Output</th>
<th>Output Range</th>
<th>Dimensions</th>
<th>Net Weight</th>
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<tbody>
<tr>
<td>POWER MIG 360MP</td>
<td>K4467-1</td>
<td>208/230/460/575/1/50/60</td>
<td>320A/30W/60%</td>
<td>55/50/25/20A</td>
<td>5-360 Amps</td>
<td>37.3 x 18 x 40.4 (947.42 x 457.2 x 1026.16)</td>
<td>265 (120.2)</td>
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<tr>
<td>Aluminum One-Pak for Trailer Mfg.</td>
<td>K4662-1</td>
<td>296 (134.2)</td>
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<td>Aluminum One-Pak for Auto Body Repair</td>
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<td>Educational One-Pak</td>
<td>K4778-1</td>
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