Magnum® PRO Curve™
Semiautomatic Guns

Processes
MIG, Pulsed MIG, Flux-Cored

Product Number
K2950-x Magnum® PRO Curve™ 200
K2951-x Magnum® PRO Curve™ 300
K2952-x Magnum® PRO Curve™ 400
K3055-x Magnum® PRO Curve™ 400

Semiautomatic Air-Cooled Guns
New Magnum® PRO Curve™ guns for MIG or flux-cored welding combine our classic curved handle with our Copper Plus™ contact tips and Magnum® PRO gun expendables to deliver long hours of fabrication welding with less frequent tip and gun expendable parts changes.

FEATURES
- Industrial Grade Construction -
  - High quality copper parts ensure superior electrical contact and heat dissipation.
  - Four trigger leads are standard for fast field repair.
  - Patent-pending Anti-Seize™ tip and diffuser thread design reduces tip and diffuser seizing.
- Lincoln Electric Copper Plus™ Contact Tips - Larger tip diameter and mass improve heat dissipation to increase tip life.
- Curve™ Handle Design - Our Curve™ handle is lightweight and balanced, providing a comfortable grip to reduce fatigue.
- Rotating Gun Tube and Gun Hanger Clip - Allow any number of hand positions to reduce fatigue or fit into tight spaces.
- Simplified Expendable Parts Selection - 350A and 550A consumables are interchangeable across all gun models. All models ship with 350A parts.
- Upgrade your Magnum® - Turn your existing gun into a Magnum® PRO Curve™ by switching to Magnum® PRO gun tubes and expendable parts.

Amperage Rating @ 60% Duty Cycle
Magnum® PRO Curve™ 200: CO2: 200A
Magnum® PRO Curve™ 300: CO2: 300A
Magnum® PRO Curve™ 400: CO2: 400A

Wire Diameter Range in. (mm)
.025 - 3/64 (0.6 - 1.2)
.025 - 5/64 (0.6 - 2.0)
.025 - 5/64 (0.6 - 2.0)

Cable Length ft. (m)
See Table Below

WHAT'S INCLUDED
- Contact Tip (Qty. 1) (KP2744-045)
- 0.625 in. (15.9 mm) Thread-On Gas Nozzle with 1/8 in. (3.2 mm) recess (KP2742-1-62R)
- Thread-On Diffuser (KP2746-1)

APPLICATIONS
- Shop Production
- Maintenance and Repair
- Construction

Shown K2951-2
Copper Plus™ Contact Tips

Compare Magnum® PRO tips to Standard Magnum® and Tregaskiss®


<table>
<thead>
<tr>
<th>Tip Diameter (inches)</th>
<th>Standard Magnum®</th>
<th>Tregaskiss®</th>
<th>Magnum® PRO</th>
</tr>
</thead>
<tbody>
<tr>
<td>0.050</td>
<td>White</td>
<td>Blue</td>
<td>Black</td>
</tr>
<tr>
<td>0.250</td>
<td>Red</td>
<td>Empty</td>
<td>Black</td>
</tr>
<tr>
<td>0.300</td>
<td>Red</td>
<td>Empty</td>
<td>Black</td>
</tr>
<tr>
<td>0.350</td>
<td>Red</td>
<td>Empty</td>
<td>Black</td>
</tr>
<tr>
<td>0.400</td>
<td>Red</td>
<td>Empty</td>
<td>Black</td>
</tr>
</tbody>
</table>

40% Larger

Copper Plus™ - More copper for better heat dissipation.

- Anti-Seize™ thread design on contact tips and diffuser.

Gun Tube

- Copper - High quality copper inner tube enhances electrical conductivity.
- Teflon® - Tough insulation and safety barrier.
- Chrome Plated Copper - Resists spatter sticking and reflects radiant heat.
- Rotating Gun Tube and Hanger Clip help you get into tight spaces.

Trigger

- Silver-plated contacts.
- Positive contact trigger (not a micro-switch).
- Trigger-Guard™ Prevents accidental triggering.
- Locking trigger kit available.

Gun Handle

- Repositionable for top or bottom trigger operation.
- Patent-pending Magnum Grip Design - Unique grip design provides balance, reduces operator fatigue and offers a sure, confident grip.
- Natural Grip Trigger position feels right from the first minute of the day to the end of the shift.

Gun Cable Connection System

- Inner barbed connection securely fastens gun cable core tube to prevent gas leaks.
- Re-usable barbed outer locking collar securely clamps the gun cable jacket.
- Large electrical contact surface area between gun cable and gun body ensures long life.
- Extra trigger leads allow fast, easy servicing.

Strain Relief

- Tight winding prevents snagging, reduces acute cable bends and protects wire path.

Contact Tip Technology

- Copper Plus™ - More copper for better heat dissipation.
- Anti-Seize™ thread design on contact tips and diffuser.

Gun Handle

- Repositionable for top or bottom trigger operation.
- Patent-pending Magnum Grip Design - Unique grip design provides balance, reduces operator fatigue and offers a sure, confident grip.
- Natural Grip Trigger position feels right from the first minute of the day to the end of the shift.

Contact Tip Technology

- Copper Plus™ - More copper for better heat dissipation.
- Anti-Seize™ thread design on contact tips and diffuser.

Graph showing comparison of Copper Plus™, Tregaskiss®, and Magnum® PRO tips.

Contact Tip for 250/350

Contact Tip for 450/550

Patent-pending Anti-Seize™ Thread Design

Flattened thread profile increases the thread cross-section where heat typically concentrates and tips fail. The result is reduced melting, fusion, seizing and extended contact tip service life. Longer life and fewer tip changes reduces expendable part and labor costs while increasing arc time. To extend contact tip life even more, optional chrome-zirconium Extended Life™ tips are also available.

Tregaskiss is a trademark of Tregaskiss, wholly owned subsidiary of Illinois Tool Works.
CONTACT TIP TECHNOLOGY

Pounds of Wire Per Contact Tip*

<table>
<thead>
<tr>
<th>Contact Tip Brand/Series</th>
<th>Pounds of Wire</th>
</tr>
</thead>
<tbody>
<tr>
<td>Magnum® PRO 550 Extended Life K42741-048ER</td>
<td>120</td>
</tr>
<tr>
<td>Magnum® PRO 550 K42745-048</td>
<td>100</td>
</tr>
<tr>
<td>Magnum® PRO 350 K42744-46</td>
<td>86</td>
</tr>
<tr>
<td>Tregaskiss® Heavy Duty TOUGH LOCK™ 400 HR-41</td>
<td>75</td>
</tr>
<tr>
<td>Bernard® CENTERFIRE™ 2-45</td>
<td>35</td>
</tr>
</tbody>
</table>

* Results based on the following test parameters: .045 SuperArc® L-56 on 60 lb. spools. Two spools of wire per tip. Pulse program. 350 ipm Wire Feed Speed (approx. 16 welding hours per tip). 100% duty cycle. Contact tip usage values based on replacing tip after 10% wear. Your actual results may vary.

The trademark Tregaskiss® and Tough Lock™ are the property of Tregaskiss, wholly owned subsidiary of Illinois Tool Works Inc. Bernard® and Centerfire™ are trademarks of Illinois Tool Works Inc. The trademark Tweco® is the property of Thermadyne Industries Inc. Actual testing was completed by Lincoln Electric personnel in Cleveland, Ohio in December 2009. Testing results were complete and accurate at the time of publication in September 2010.

EXPENDABLE PARTS

STEP 1 SELECT YOUR GUN CONNECTOR KIT

<table>
<thead>
<tr>
<th>Manufacturer</th>
<th>Wire Feeder Model</th>
<th>Magnum® PRO 200/300/400</th>
</tr>
</thead>
<tbody>
<tr>
<td>Lincoln Electric®</td>
<td>K466-1</td>
<td>K466-10</td>
</tr>
<tr>
<td></td>
<td>K466-8</td>
<td></td>
</tr>
<tr>
<td></td>
<td>K466-10</td>
<td>K466-10</td>
</tr>
<tr>
<td>Tweeco Adapted</td>
<td>No. 2, No. 3, No. 4 Guns (K466), No. 5 (K413)</td>
<td>K466-2</td>
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</tbody>
</table>

STEP 2 SELECT YOUR LINER

<table>
<thead>
<tr>
<th>MAGNUM® PRO CURVE™ 200A</th>
<th>MAGNUM® PRO CURVE™ 300A/400A</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>ft. (m)</strong></td>
<td><strong>.025-.030 (0.6-0.8)</strong></td>
</tr>
<tr>
<td>-------------------------</td>
<td>-----------------------------</td>
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</tbody>
</table>

(1) Recommended for aluminum wire welding.
EXPENDABLE PARTS CONTINUED

350 A and 550 A Magnum® PRO Expendable Parts are interchangeable. Interchanging will require gun tube insulator and gas diffuser changes. Customers may choose to change expendable parts to standardize stocking parts or to make the gun more compact for tight spaces.

### Magnum® PRO 350A Expendables

#### CONTACT TIPS 350A

<table>
<thead>
<tr>
<th>Wire Diameter in. (mm)</th>
<th>Standard Pkg. Qty. - 10</th>
<th>Standard Pkg. Qty. - 100</th>
<th>Tapered Tip Pkg. Qty. - 10</th>
<th>Tapered Tip Pkg. Qty. - 100</th>
</tr>
</thead>
<tbody>
<tr>
<td>0.025 (0.6)</td>
<td>KP2744-025</td>
<td>KP2744-025-B100</td>
<td>KP2744-025T</td>
<td>KP2744-025T-B100</td>
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<tr>
<td>0.030 (0.8)</td>
<td>KP2744-030</td>
<td>KP2744-030-B100</td>
<td>KP2744-030T</td>
<td>KP2744-030T-B100</td>
</tr>
<tr>
<td>0.035 (0.9)</td>
<td>KP2744-035</td>
<td>KP2744-035-B100</td>
<td>KP2744-035T</td>
<td>KP2744-035T-B100</td>
</tr>
<tr>
<td>0.040 (1.0)</td>
<td>KP2744-040</td>
<td>KP2744-040-B100</td>
<td>KP2744-040T</td>
<td>KP2744-040T-B100</td>
</tr>
<tr>
<td>0.045 (1.2)</td>
<td>KP2744-045</td>
<td>KP2744-045-B100</td>
<td>KP2744-045T</td>
<td>KP2744-045T-B100</td>
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<tr>
<td>0.052 (1.3)</td>
<td>KP2744-052</td>
<td>KP2744-052-B100</td>
<td>KP2744-052T</td>
<td>KP2744-052T-B100</td>
</tr>
<tr>
<td>0.035 (1.6)</td>
<td>KP2744-116</td>
<td>KP2744-116-B100</td>
<td>KP2744-116T</td>
<td>KP2744-116T-B100</td>
</tr>
<tr>
<td>5/64 (2.0)</td>
<td>KP2744-564</td>
<td>KP2744-564-B100</td>
<td>KP2744-564T</td>
<td>KP2744-564T-B100</td>
</tr>
</tbody>
</table>

#### GAS DIFFUSER 350A

<table>
<thead>
<tr>
<th>Pkg. Qty.</th>
<th>Thread-on Standard Duty</th>
<th>Thread-on Light Duty</th>
<th>Thread-on Extended Reach</th>
<th>Slip-on</th>
</tr>
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<tbody>
<tr>
<td>1</td>
<td>KP2746-1</td>
<td>KP3141-1(1)</td>
<td>KP3360-1</td>
<td>KP2746-2</td>
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</table>

#### GUN TUBE INSULATOR 350A

<table>
<thead>
<tr>
<th>Pkg. Qty.</th>
<th>Part Number</th>
</tr>
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<tbody>
<tr>
<td>1</td>
<td>KP2773-2</td>
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<tr>
<td>25</td>
<td>KP2773-2-B25</td>
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#### GAS NOZZLE 350A

**Gas Nozzle Diameter in. (mm)**

<table>
<thead>
<tr>
<th>Nozzle Diameter in. (mm)</th>
<th>Nozzle Pkg. Qty.</th>
<th>Standard 0.375 (9.5)</th>
<th>Standard 0.5 (12.7)</th>
<th>Extended Reach 0.5 (12.7)</th>
<th>Bottleneck 0.5 (12.7)</th>
<th>Standard 0.625 (15.9)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1/8&quot;</td>
<td>1</td>
<td>KP2742-1-38R</td>
<td>KP2742-1-50R</td>
<td>KP3359-1-50R</td>
<td>KP3160-1-50R-B25</td>
<td>KP2742-1-62R</td>
</tr>
<tr>
<td>1/8&quot;</td>
<td>1</td>
<td>KP2742-1-38B</td>
<td>KP2742-1-50B</td>
<td>KP3359-1-50B</td>
<td>KP3160-1-50B-B25</td>
<td>KP2742-1-62F</td>
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<td>1/8&quot;</td>
<td>1</td>
<td>KP2742-1-38FS</td>
<td>KP2742-1-50FS</td>
<td>KP3359-1-50FS</td>
<td>KP3160-1-50FS-B25</td>
<td>KP2742-1-62FS</td>
</tr>
<tr>
<td>1/8&quot;</td>
<td>1</td>
<td>KP2742-1-45R</td>
<td>KP2742-1-50R</td>
<td>KP3359-1-50R</td>
<td>KP3160-1-50R-B25</td>
<td>KP2742-1-62R</td>
</tr>
<tr>
<td>1/8&quot;</td>
<td>1</td>
<td>KP2742-1-45B</td>
<td>KP2742-1-50B</td>
<td>KP3359-1-50B</td>
<td>KP3160-1-50B-B25</td>
<td>KP2742-1-62F</td>
</tr>
<tr>
<td>1/8&quot;</td>
<td>1</td>
<td>KP2742-1-50S</td>
<td>KP2742-1-50S</td>
<td>KP3359-1-50S</td>
<td>KP3160-1-50S-B25</td>
<td>KP2742-1-62S</td>
</tr>
<tr>
<td>1/8&quot;</td>
<td>1</td>
<td>KP2742-1-50FS</td>
<td>KP2742-1-50FS</td>
<td>KP3359-1-50FS</td>
<td>KP3160-1-50FS-B25</td>
<td>KP2742-1-62FS</td>
</tr>
<tr>
<td>1/8&quot;</td>
<td>1</td>
<td>KP2742-2-38R</td>
<td>KP2742-2-50R</td>
<td>KP3160-1-50R</td>
<td></td>
<td>KP2742-2-62R</td>
</tr>
<tr>
<td>1/8&quot;</td>
<td>1</td>
<td>KP2742-2-38B</td>
<td>KP2742-2-50B</td>
<td>KP3160-1-50B</td>
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<td>KP2742-2-62F</td>
</tr>
<tr>
<td>1/8&quot;</td>
<td>1</td>
<td>KP2742-2-38FS</td>
<td>KP2742-2-50FS</td>
<td>KP3160-1-50FS</td>
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<td>KP2742-2-62FS</td>
</tr>
<tr>
<td>1/8&quot;</td>
<td>1</td>
<td>KP2742-2-45R</td>
<td>KP2742-2-50R</td>
<td>KP3160-1-50R</td>
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<td>KP2742-2-62R</td>
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<tr>
<td>1/8&quot;</td>
<td>1</td>
<td>KP2742-2-45B</td>
<td>KP2742-2-50B</td>
<td>KP3160-1-50B</td>
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<td>KP2742-2-62F</td>
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<tr>
<td>1/8&quot;</td>
<td>1</td>
<td>KP2742-2-50S</td>
<td>KP2742-2-50S</td>
<td>KP3160-1-50S</td>
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<td>KP2742-2-62S</td>
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<td>1/8&quot;</td>
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<td>KP2742-2-50FS</td>
<td>KP2742-2-50FS</td>
<td>KP3160-1-50FS</td>
<td></td>
<td>KP2742-2-62FS</td>
</tr>
</tbody>
</table>

(1) For use with Magnum® PRO 100L, KP3075-1-XXX nozzles only
(2) Can be used on existing Magnum® Guns
(3) Extended version.
(4) When using an extended gun tube and extended gas nozzle, a 25 ft. liner should be used.
EXPENDABLE PARTS CONTINUED

350 A and 550 A Magnum® PRO Expendable Parts are interchangeable. Interchanging will require gun tube insulator and gas diffuser changes. Customers may choose to change expendable parts to standardize stocking parts or to make the gun more compact for tight spaces.

Magnum® PRO 550A Expendables

<table>
<thead>
<tr>
<th>Wire Diameter in. (mm)</th>
<th>CONTACT TIPS 550 A</th>
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</thead>
<tbody>
<tr>
<td></td>
<td>Standard</td>
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<tr>
<td></td>
<td>Pkg. Qty. - 10</td>
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<tr>
<td>0.035 (0.9)</td>
<td>KP2745-035</td>
</tr>
<tr>
<td>0.040 (1.0)</td>
<td>KP2745-040</td>
</tr>
<tr>
<td>0.045 (1.2)</td>
<td>KP2745-045</td>
</tr>
<tr>
<td>0.052 (1.3)</td>
<td>KP2745-052</td>
</tr>
<tr>
<td>1/16 (1.6)</td>
<td>KP2745-116</td>
</tr>
<tr>
<td>0.068-0.072 (1.7-1.8)</td>
<td>KP2745-072</td>
</tr>
<tr>
<td>5/64 (2.0)</td>
<td>KP2745-564</td>
</tr>
<tr>
<td>3/32 (2.4)</td>
<td>KP2745-332</td>
</tr>
<tr>
<td>7/64 (2.8)</td>
<td>KP2745-764</td>
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<tr>
<td>1/8 (3.2)</td>
<td>KP2745-18</td>
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(1) 550 only

<table>
<thead>
<tr>
<th>Type</th>
<th>GAS DIFFUSER 550A</th>
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<tbody>
<tr>
<td></td>
<td>Pkg. Qty. Thread-on Standard Duty</td>
</tr>
<tr>
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<table>
<thead>
<tr>
<th>Type</th>
<th>GUN TUBE INSULATOR 550A</th>
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</thead>
<tbody>
<tr>
<td></td>
<td>Pkg. Qty. Part Number</td>
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<tr>
<td></td>
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</tr>
<tr>
<td></td>
<td>25</td>
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</table>

<table>
<thead>
<tr>
<th>Type</th>
<th>GAS NOZZLE 550A</th>
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</thead>
<tbody>
<tr>
<td></td>
<td>Nozzle Pkg. Qty. Standard 0.625 (15.9)</td>
</tr>
<tr>
<td></td>
<td>1/8 (3.2) Recess</td>
</tr>
<tr>
<td></td>
<td>1/8 (3.2) Flush</td>
</tr>
<tr>
<td></td>
<td>1/8 (3.2) Stockout</td>
</tr>
<tr>
<td></td>
<td>1/8 (3.2) Recess</td>
</tr>
<tr>
<td></td>
<td>1/8 (3.2) Stockout</td>
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</tbody>
</table>

Contact Tip for up to 550A

Magnum® PRO Curve™ Guns | [5]
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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