Quick Specs

Light Industrial Applications
Process pipe
Dairy industry
Food/beverage industry
Restaurant/kitchen repair
Experimental aircraft
Shipboard installation/repair
Maintenance repair

Processes
Lift-Arc™ TIG (GTAW)
Stick (SMAW)

Input Power
120–240 V, 1-phase power

Amperage Range
120 V:  5–130 A (DC TIG)
20–90 A (DC stick)
240 V:  5–160 A (DC TIG)
20–160 A (DC stick)

Max. Open-Circuit Voltage 48
Net Weight 13 lb. (5.9 kg)

Auto-Liner
Allows for any input voltage hookup (120–240 V) with no manual linking, providing convenience in any job setting. Ideal solution for dirty or unreliable power.

Portable in the shop or at the job site — at 13 pounds, the handle/shoulder strap allows the end user to easily move from location to location.

Lift-Arc™ provides TIG arc initiation without the use of high frequency.

Full function remote control for precise amperage control for critical welds on thin materials (6-pin fingertip or foot control available.)

Fan-On-Demand™ power source cooling system operates only when needed, reducing noise, energy use and the amount of contaminants pulled through the machine.

Thermal overload protection helps prevent machine damage if the duty cycle is exceeded or airflow is blocked.

Built-in gas solenoid eliminates the need for a bulky torch with a gas valve.

Digital meter for more precise control when presetting or monitoring welding amperage.

TIG/Stick Package with Remote Fingertip Control (907710002) comes complete with:
- Maxstar 161 STL power source
- 6.5 ft. (2 m) 120-volt and 240-volt power cords
- X-CASE™ — provides protection in transport and storage
- RCCS-6M remote fingertip control (195184)
- Weldcraft™ A-150 (WP-17) 12.5 ft. (3.8 m) TIG torch with connector
- Stick electrode holder with 13 ft. (4 m) cable and 25 mm Dinse-style connector
- Work clamp with 10 ft. (3 m) cable and 25 mm Dinse-style connector
- Flow gauge regulator with gas hose
- AK2C accessory kit with short back cap, nozzles, collets, collet bodies, and 2% ceriated tungsten electrodes (.040, 1/16, and 3/32 in.)
- Handle/shoulder strap

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- Handle/shoulder strap

Power source is warranted for three years, parts and labor. Original main power rectified parts are warranted for five years.
### Specifications (Subject to change without notice.)

<table>
<thead>
<tr>
<th>Welding Mode</th>
<th>Input Power</th>
<th>Welding Amperage Range</th>
<th>Rated Welding Output</th>
<th>Amps Input at Rated Output, 50/60 Hz</th>
<th>KVA at Duty Cycle</th>
<th>KW</th>
<th>Max. Open-Circuit Voltage</th>
<th>Dimensions</th>
<th>Net Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>TIG</td>
<td>120 V, 15 A</td>
<td>5–130 A</td>
<td>90 A at 13.6 VDC, 100% duty cycle</td>
<td>14.61</td>
<td>1.75</td>
<td>1.70</td>
<td>48 VDC (12–16 VDC*)</td>
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<td></td>
<td>240 V</td>
<td>5–160 A</td>
<td>110 A at 14.4 VDC, 100% duty cycle</td>
<td>9.35</td>
<td>2.24</td>
<td>2.12</td>
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<tr>
<td></td>
<td>160 A</td>
<td>160 A at 16.4 VDC, 20% duty cycle</td>
<td>15.05</td>
<td>3.62</td>
<td>3.49</td>
<td></td>
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<tr>
<td>Stick</td>
<td>120 V, 15 A</td>
<td>20–90 A</td>
<td>60 A at 22.4 VDC, 100% duty cycle</td>
<td>14.68</td>
<td>1.75</td>
<td>1.71</td>
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<tr>
<td></td>
<td>240 V</td>
<td>20–160 A</td>
<td>110 A at 24.4 VDC, 100% duty cycle</td>
<td>14.31</td>
<td>3.43</td>
<td>3.30</td>
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</tbody>
</table>

*Sense voltage for stick and Lift-Arc™ TIG.

Certified by Canadian Standards Association to both the Canadian and U.S. Standards.

### Control Panel

1. Power Switch  
2. Menu Button  
3. Positive Weld Output Receptacle  
4. Remote Receptacle  
5. Ready Light  
6. Amperage Adjustment Control  
7. Negative Weld Output Receptacle

### Performance Data

#### Duty Cycle Chart

- Stick and TIG 240 V
- TIG 120 V
- Stick 120 V

Duty Cycle Chart

<table>
<thead>
<tr>
<th>% Duty Cycle</th>
<th>Output Amperes</th>
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<tbody>
<tr>
<td>10</td>
<td>0</td>
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<tr>
<td>20</td>
<td>50</td>
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<tr>
<td>40</td>
<td>100</td>
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<tr>
<td>60</td>
<td>150</td>
</tr>
<tr>
<td>80</td>
<td>200</td>
</tr>
<tr>
<td>100</td>
<td>250</td>
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</table>

Note: Specifications and diagrams are subject to change without notice.
Maxstar® 161 STL Packages

Standard Package  907710
Package includes:
- Maxstar 161 STL power source
- 6.5 ft. (2 m) 120-volt and 240-volt power cords
- Stick electrode holder with 13 ft. (4 m) cable and 25 mm Dinse-style connector
- Work clamp with 10 ft. (3 m) cable and 25 mm Dinse-style connector
- One air-cooled TIG torch connector (195234)
- Handle/shoulder strap

TIG/Stick Package  907710001
TIG/Stick Package with Remote Fingertip Control  907710002
Packages include:
- Maxstar 161 STL power source
- 6.5 ft. (2 m) 120-volt and 240-volt power cords
- X-CASE™ — provides protection in transport and storage
- RCCS-6M remote fingertip control (195184) (907710002 package only)
- Weldcraft™ A-150 (WP-17) 12.5 ft. (3.8 m) TIG torch with connector
- Stick electrode holder with 13 ft. (4 m) cable and 25 mm Dinse-style connector
- Work clamp with 10 ft. (3 m) cable and 25 mm Dinse-style connector
- Flow gauge regulator with gas hose
- AK2C accessory kit with short back cap, nozzles, collets, collet bodies, and 2% ceriated tungsten electrodes (.040, 1/16, and 3/32 in.)
- Handle/shoulder strap

Genuine Miller® Accessories

Remote Controls and Switches

RCCS-6M (6-pin plug)
195184  13.25 ft. (4 m) cord
195503  26.5 ft. (8 m) cord
North/south rotary-motion fingertip current/contactor control attaches to TIG torch using two hook-and-loop fasteners. Great for applications that require a finer amperage control. Includes cord and plug.

RFCS-6M (6-pin plug)
195183  13.25 ft. (4 m) cord
195504  20 ft. (6 m) cord
Foot pedal current/contactor control. Includes cord and plug.

RMS-6M (6-pin plug)  195269
Momentary-contact switch for contactor control. Rubber-covered pushbutton dome switch ideal for repetitive on-off applications. Includes 26.5 ft. (8 m) cord and plug.

TIG Torches

Weldcraft™ Air-Cooled Torches
WP-17-12-R  A-150 (WP-17)  
12.5 ft. (3.8 m) TIG torch with gas thru connector.
WP-17-25-R  A-150 (WP-17)  
25 ft. (7.6 m) TIG torch with gas thru connector.

Air-Cooled TIG Torch Connector  195234
25 mm (small) Dinse-style gas thru for one-piece air-cooled torch.

X-CASE™  301429
Sturdy case provides ultimate protection for transport and storage. Also features convenient top carrying handle and side recessed hand grips. Store the Maxstar 161, accessories and gear in this generous case to be ready to go at any time. Dimensions (H x W x D): 13 x 10.5 x 30.625 in. (330 x 267 x 778 mm).

Full KVA Adapter Cord  300517

Female Receptacle
### Ordering Information

<table>
<thead>
<tr>
<th>Power Source and Options</th>
<th>Stock No.</th>
<th>Description</th>
<th>Qty.</th>
<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Maxstar® 161 STL Standard Package</strong></td>
<td>907710</td>
<td>Maxstar 161 STL with electrode holder, work clamp, and 120-volt and 240-volt power cords</td>
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<tr>
<td><strong>Maxstar® 161 STL TIG/Stick Package</strong></td>
<td>907710001</td>
<td>Includes 907710 plus X-CASE™, A-150 TIG torch, gas regulator with hose, and AK2C accessory kit</td>
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<tr>
<td></td>
<td>907710002</td>
<td>Includes 907710001 plus remote fingertip control</td>
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<tr>
<td><strong>Accessories</strong></td>
<td></td>
<td></td>
<td></td>
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<tr>
<td>X-CASE™ (only)</td>
<td>301429</td>
<td>Carrying case for Maxstar 161</td>
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<td></td>
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<tr>
<td>Full KVA Adapter Cord</td>
<td>300517</td>
<td>Adapts engine drive 120/240 V plug to Maxstar 240 V plug</td>
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<tr>
<td>RCCS-6M</td>
<td>195184</td>
<td>13.25 ft. (4 m) remote fingertip control</td>
<td></td>
<td></td>
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<tr>
<td></td>
<td>195503</td>
<td>26.5 ft. (8 m), remote fingertip control</td>
<td></td>
<td></td>
</tr>
<tr>
<td>RMS-6M</td>
<td>195269</td>
<td>26.5 ft. (8 m), remote on/off control</td>
<td></td>
<td></td>
</tr>
<tr>
<td>RFCS-6M</td>
<td>195183</td>
<td>13.25 ft. (4 m) remote foot control</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>195504</td>
<td>20 ft. (6 m), remote foot control</td>
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</tr>
<tr>
<td>Weldcraft™ A-150 (WP-17) TIG Torch</td>
<td></td>
<td>See page 3</td>
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</tr>
<tr>
<td>Air-Cooled TIG Torch Connector</td>
<td>195234</td>
<td>Connects the A-125, A-150 and A-80 Weldcraft torches to 25 mm gas thru Dinse-style connector</td>
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**Date:**

**Total Quoted Price:**

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