Plasma Cutting - Anywhere, Anytime

The Tomahawk® 1000 plasma cutting system is portable enough to use on the jobsite and rugged enough to use on up to one inch material in a production environment. Hook up the compressed air, grab the torch and start cutting.

**APPLICATIONS**
- On site maintenance
- Service tasks
- Construction sites
- Demolition work
- Rental
- Production/Fabrication
- Robotic plasma cutting

**WHAT’S INCLUDED**
K2808-1 Includes:
- LC65 hand torch
- 25 ft. (7.5 m) cable
- Air regulator and pressure gauge
- Internal water separator
- Work clamp and cable
- Spare consumables
- Input power cord

**CUT PERFORMANCE - MILD STEEL**

<table>
<thead>
<tr>
<th>Process</th>
<th>Recommended</th>
<th>Maximum</th>
<th>Severance</th>
</tr>
</thead>
<tbody>
<tr>
<td>CNC Pierce/Cut</td>
<td>25 ipm (0.64 m/min)</td>
<td>19 ipm (0.51 m/min)</td>
<td>10 ipm (0.30 m/min)</td>
</tr>
<tr>
<td>Hand Torch</td>
<td>3/4 in (19.01 mm)</td>
<td>1 in (25.4 mm)</td>
<td>1-1/4 in (31.75 mm)</td>
</tr>
</tbody>
</table>

**INPUT/OUTPUT**

K2808-1 Shown

**FEATURES**
- **PowerConnect® Technology** – Automatically senses and adjusts to input power for a range of 200 up to 600 volts, single or three phase, 50 or 60 hertz. Cutting output remains constant throughout the entire input voltage range.
- **Continuous Output Control** – Focus the arc for different material thicknesses.
- **Touch Start™ System** – Reliable plasma arc initiation without high frequency.
- **Front Panel Purge Control** – Makes it easy to set the air flow rate without initiating the plasma arc.
- **Cool Operation, Long Consumable Life** – New electrode and nozzle design save you money in the long run.
- **Added Safety** – Our Parts-in-Place™ system detects correct installation of consumables and torch.
- **Engine Drive Compatible** – Select a Lincoln Electric Ranger® or Vantage® to power your Tomahawk® in remote locations.
- **CNC (Computer Numeric Control) and Robotic Plasma Cutting** – Set up a fast, reliable production cutting cell with the optional machine torch.

**Input Power**
- 208-575/1/3/50/60

**Rated Output Current/Duty Cycle**
- 50% 60A@104V
- 100% 40A@96V

**Output Range**
- 20-60A

**Air Pressure Required**
- 87-109psi (6-7.5 Bar)

**Air Flow Rate**
- 80psi@275 SCFH (5.5 bar@130 Liters/min)

**Weight/Dimensions (H x W x D)**
- 45 lbs. (20.4 kg)
- 15.2 x 8.5 x 22.1 in.
- (385 x 215 x 561 mm)

See back for complete specs
Starting
- Air pressure pushes the electrode back
- Ignition takes place on the ‘shoulder’
- No damage to the tip

Performance
- Enhanced swirling airflow
- Improved radius and electrode/nozzle design

Lifetime
- Internal cooled electrode keeping the tip cool
- New torch head and electrode and nozzle design
- Increases life of consumable components
- Lower operating costs

Extended consumable lifetime
- Consistent starting without high frequency
- Faster cutting times
- Greater thickness cutting capacity
**CUTTING CONFIGURATIONS**

**LC65 Parts**

**Standard**

In the standard cutting configuration, the nozzle is designed for a user-maintained gap between the nozzle and the workpiece, unless the spacer is attached. Standard cutting allows maximum arc visibility and is recommended for higher current levels and thicker plate. Standard cutting parts are included with the torch.

**Direct Contact**

Direct contact cutting uses special expendable parts that allow the torch to touch the work piece. This technique is recommended for low amperages and thinner plate thicknesses. A special optional nozzle is required for direct contact cutting. See consumables.

**Shielded Contact**

Shielded contact cutting uses special expendable parts that allow the torch to touch the work piece. A special optional nozzle and drag shield are required for shielded contact cutting. Recommended for 50-60 amp operation. See consumables.

**Gouging**

When gouging metal, a special optional gouging nozzle is used in conjunction with a shield to protect the nozzle from molten metal blow back. See consumables.

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**TOMAHAWK® 1000 TORCH CONSUMABLES**

<table>
<thead>
<tr>
<th>Product Number</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>K2848-1</td>
<td>LC65 Handheld Plasma Torch 25 ft (7.5 m)</td>
</tr>
<tr>
<td>K2848-2</td>
<td>LC65 Handheld Plasma Torch 50 ft (15 m)</td>
</tr>
<tr>
<td>KP2844-1</td>
<td>Electrode (60A) Standard</td>
</tr>
<tr>
<td>KP2844-4</td>
<td>Nozzle (60A) Standard</td>
</tr>
<tr>
<td>KP2844-9</td>
<td>Retaining Cap (40A-60A) Standard</td>
</tr>
<tr>
<td>KP2843-10</td>
<td>Drag Spacer Standard</td>
</tr>
<tr>
<td>KP2844-14</td>
<td>Swirl Ring (40,50,60A) Standard</td>
</tr>
</tbody>
</table>

**Optional Nozzles & Related Accessories:***

**Standard**

- KP2844-2 Electrode (40A) Optional
- KP2844-3 Electrode (50A) Optional
- KP2844-4 Nozzle (40A) Optional
- KP2844-7 Nozzle (Shielded Contact) (60A) Optional
- KP2844-8 Nozzle (Gouging) Optional
- KP2844-10 Retaining Cap (Shielded Contact or Gouging) Optional
- KP2844-11 Drag Shield (50,60A) Optional
- KP2844-13 Gouge Shield Optional
- KP2848-3 LC65M Machine Plasma Torch 25 ft (7.5m)
- KP2844-1 Electrode Standard
- KP2844-4 Nozzle (60A) Standard
- KP2844-9 Retaining Cap (40,60A) Standard
- KP2844-14 Swirl Ring (40,50,60A) Standard

**Optional Nozzles & Related Accessories:***

- KP2844-2 Electrode (40A) Optional
- KP2844-3 Electrode (50A) Optional
- KP2844-6 Nozzle (Shielded Contact) (50A) Optional
- KP2844-7 Nozzle (Shielded Contact) (60A) Optional
- KP2844-8 Nozzle (Gouging) Optional
- KP2844-10 Retaining Cap (Shielded Contact or Gouging) Optional
- KP2844-13 Gouge Shield Optional
- KP2843-10 Drag Spacer (50,60A) Optional

- It is normal for the electrode to wear during operation.
- Electrodes should typically be replaced when erosion reaches 0.060 in. (1.5 mm).
- A green and erratic arc will indicate the end of electrode life. The electrode should be immediately replaced.
- It is recommended that the KP2844-1 Electrode and KP2844-4 Nozzle (60A) be replaced as a complete set.
GENERAL OPTIONS
Accessory Bag
Canvas bag can be used to store your welding accessories and tools. Order K3071-1

Small Canvas Cover
Protect your Tomahawk® when not in use. Made from red canvas that is flame retardant, mildew resistant and water repellent. Order K2377-1

PLASMA CUTTING OPTIONS
Plasma Circle Cutting Guide Kit
For cutting circles from 2 in. to 40 in. (50.8 - 1016 mm) in diameter. Works with all LC series plasma torches. Order K2886-1

LC65M Machine Plasma Torch 25’
Add this machine torch for use on CNC plasma cutting tables. K4848-3 25 ft (7.5 m)

LC65 Hand Plasma Replacement Torch
Includes 25 ft. (7.5 m) or 50 ft. (15 m) torch cable and one set of all required torch expendable parts. Order K2848-1 25ft (7.5 m) K2848-2 50ft (15 m)

CUTTING PERFORMANCE – MILD STEEL

- Aluminum cutting speeds are typically 10-20% faster than mild steel.
- Stainless steel cutting speeds are typically 10-20% slower than mild steel.

COMPATIBLE ENGINE DRIVES (1)

<table>
<thead>
<tr>
<th>Product Name</th>
<th>Product Number</th>
<th>Input Power</th>
<th>Rated Output</th>
<th>Current Duty Cycle</th>
<th>Pilot Current</th>
<th>Output Range</th>
<th>Air Pressure</th>
<th>Air Flow Rate</th>
<th>Dimensions</th>
<th>Net Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ranger® 225</td>
<td>K2808-1</td>
<td>208-575/1 /3/50/60</td>
<td>100% 40A@96V, 50% 60A@104V</td>
<td>37.8A (Max)</td>
<td>20A</td>
<td>20-60A</td>
<td>87-109psi (6-7.5 Bar)</td>
<td>80psi@275-SCFH</td>
<td>15.2 (385)</td>
<td>45 (20.4)</td>
</tr>
<tr>
<td>Ranger® 250 GXT</td>
<td>K2808-2</td>
<td>208-575/1 /3/50/60</td>
<td>100% 40A@96V, 50% 60A@104V</td>
<td>37.8A (Max)</td>
<td>20A</td>
<td>20-60A</td>
<td>87-109psi (6-7.5 Bar)</td>
<td>80psi@275-SCFH</td>
<td>15.2 (385)</td>
<td>45 (20.4)</td>
</tr>
<tr>
<td>Ranger® 305 G</td>
<td>K2808-3</td>
<td>208-575/1 /3/50/60</td>
<td>100% 40A@96V, 50% 60A@104V</td>
<td>37.8A (Max)</td>
<td>20A</td>
<td>20-60A</td>
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PRODUCT SPECIFICATIONS

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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