Tomahawk® 1000

Processes
Plasma Cutting, Gouging

For These Materials
Mild Steel, Brass, Stainless Steel, Copper, Aluminum

Product Number
K2808-1 Tomahawk® 1000 with Hand 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

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.

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.

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

Recommended
Rated Cut @ 19 ipm (0.51 m/min)

Maximum
10 ipm (0.30 m/min)

Severance
5 ipm (0.13 m/min)

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

Two Year Extended Warranty Available.
One Year Warranty On Torch.
IP23 Rated

THE LINCOLN ELECTRIC COMPANY
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PH: +1.216-481-8100 • www.lincolnelectric.com
**KEY CONTROLS**

1. Mode Pushbutton
2. Air Pressure Gauge
3. Regulator Adjustment
4. Torch Connection
5. CNC Connector - for automation integration
6. Work Lead Connection
7. Output Current and Air Purge Control
8. Parts-in-Place (PIP) LED Indicator (Yellow)
9. Gas Pressure LED Indicator (Yellow)
10. Thermal Status LED Indicator (Yellow)
11. Output Status LED Indicator (Red)
12. Power On/Off LED Indicator (Green)
13. Gouge Mode – for removing material (Red)
14. Expanded Metal Mode – for cutting on grid work (Red)
15. Cut Mode LED Indicator - for solid piece (Red)
16. On/Off Power Switch
17. Input Cable
18. Cooling Fan
19. Air Inlet For External Compressed Air

**LINCOLN ELECTRIC TORCH HEAD DESIGN**

**TORCH DESIGN FOR OPTIMAL STARTING AND PERFORMANCE**

**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

- Extended consumable lifetime
- Consistent starting without high frequency
- More concentrated arc
- Faster cutting times
- Greater thickness cutting capacity
- Increases life of consumable components
- Lower operating costs
**Screw Shielded Contact**

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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### REPLACEMENT TORCH CONSUMABLES

#### 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: (Not Included in K2848-1 or -2)

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<th>Product Number</th>
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<tbody>
<tr>
<td>KP2844-2</td>
<td>Nozzle (40A) Optional</td>
</tr>
<tr>
<td>KP2844-3</td>
<td>Nozzle (50A) Optional</td>
</tr>
<tr>
<td>KP2844-5</td>
<td>Nozzle (Direct Contact) (40A) Optional</td>
</tr>
<tr>
<td>KP2844-6</td>
<td>Nozzle (Shielded Contact) (50A) Optional</td>
</tr>
<tr>
<td>KP2844-7</td>
<td>Nozzle (Shielded Contact) (60A) Optional</td>
</tr>
<tr>
<td>KP2844-8</td>
<td>Nozzle (Gouging) Optional</td>
</tr>
<tr>
<td>KP2844-10</td>
<td>Retaining Cap (Shielded Contact or Gouging) Optional</td>
</tr>
<tr>
<td>KP2844-11</td>
<td>Drag Shield (50,60A) Optional</td>
</tr>
<tr>
<td>KP2844-12</td>
<td>Gouge Shield Optional</td>
</tr>
</tbody>
</table>

- 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 3 in. to 33 in. (77 - 838 mm) in diameter. Works with all LC series plasma torches. Order K2886-1

Add this machine torch for use on CNC plasma cutting tables. Order K2848-3 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 25 ft (7.5 m) K2848-2 50 ft (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>Output</th>
<th>Rated Current Duty Cycle</th>
<th>Input Current @ Rated Output</th>
<th>Pilot Current</th>
<th>Output Range</th>
<th>Air Pressure Required</th>
<th>Air Flow Rate</th>
<th>Dimensions H x W x D in (mm)</th>
<th>Net Weight Without Torch lbs (kg)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tomahawk 1000 with Hand Torch</td>
<td>K2808-1</td>
<td>208-575/1/3/50/60</td>
<td>100% 40A@96V</td>
<td>50% 60A@104V</td>
<td>37.8A (Max)</td>
<td>20A</td>
<td>20-60A</td>
<td>87-109 psi (6-7.5 Bar)</td>
<td>80psi@275SCFH</td>
<td>15.2 (385)</td>
<td>45 (20.4)</td>
</tr>
<tr>
<td>Tomahawk 1000 with Machine Torch</td>
<td>K2808-2</td>
<td>208-575/1/3/50/60</td>
<td>100% 40A@96V</td>
<td>50% 60A@104V</td>
<td>37.8A (Max)</td>
<td>20A</td>
<td>20-60A</td>
<td>87-109 psi (6-7.5 Bar)</td>
<td>80psi@275SCFH</td>
<td>5.5 Bar@ 130 Liters/min.</td>
<td>22.1 (561)</td>
</tr>
</tbody>
</table>

CUSTOMER ASSISTANCE POLICY

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