

Tomahawk® 625

Processes

Plasma Cutting and Gouging

For These Materials

Mild Steel, Brass, Stainless Steel, Copper, Aluminum

Product Number

K2807-1 Tomahawk® 625 with Hand Torch

K2807-2 Tomahawk® 625 with Machine Torch

Input Power

208/230/1/50/60

Rated Output Current/Duty Cycle

24A/89.6V/100%

29A/91.8V/60%

40A/96.0V/35%

Output Range

10-40A

Air Pressure Required

80-110psi (6-7.5 Bar)

Air Flow Rate Required

70psi @ 125-200 SCFH

(5 bar @ 80 Liters/min)

Weight/Dimensions (H x W x D)

34 lbs. (15.4 kg)

15.2 x 8.5 x 18.9 in.

(385 x 215 x 480 mm)

See back for complete specs

Plasma Cutting - Anywhere, Anytime

Tomahawk® plasma cutting systems are portable enough to carry to any jobsite. Hook up the compressed air, grab the torch and start cutting right away.

FEATURES

- ▶ **Continuous Output Control** – Focus the arc for different material thickness.
- ▶ **Touch Start System** – Reliable plasma arc initiation without high frequency.
- ▶ **Rapid Arc Restrike** – Fast cutting through gaps, even expanded metal.
- ▶ **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.
- ▶ **Lightweight and Portable** – Easily carried by one person.
- ▶ **Engine Drive Compatible** – Select a Lincoln Electric Ranger® or Vantage® to power your Tomahawk® in remote locations.

APPLICATIONS

- ▶ On site maintenance
- ▶ Small construction sites
- ▶ Air ducting installation (HVAC)
- ▶ Demolition work
- ▶ Rental



K2807-1 Shown

WHAT'S INCLUDED

K2807-1 Includes:

- ▶ Lincoln Electric LC40 hand torch
- ▶ 20 ft. (6 m) cable
- ▶ Air regulator and pressure gauge
- ▶ Internal water separator
- ▶ Work clamp and cable
- ▶ Spare consumables
- ▶ Shoulder strap
- ▶ Input power cord

INPUT



OUTPUT



Two Year Extended Warranty Available in U.S.A. and Canada

* 3 year warranty on machine
1 year on torch

IP21S



CUT PERFORMANCE - MILD STEEL

CNC Machine Torch	Hand Torch		
3/8 in (9.5 mm)	1/2 in (12.7 mm)	5/8 in (0.625 in) (15.9 mm)	3/4 in (19.1 mm)
CNC Pierce/Cut	Recommended	Maximum	Severance
Rated Cut @ 20 ipm (0.51 m/min)	Rated Cut @ 20 ipm (0.51 m/min)	Maximum Cut @ 12 ipm (0.30 m/min)	Sever Cut @ 5 ipm (0.13 m/min)

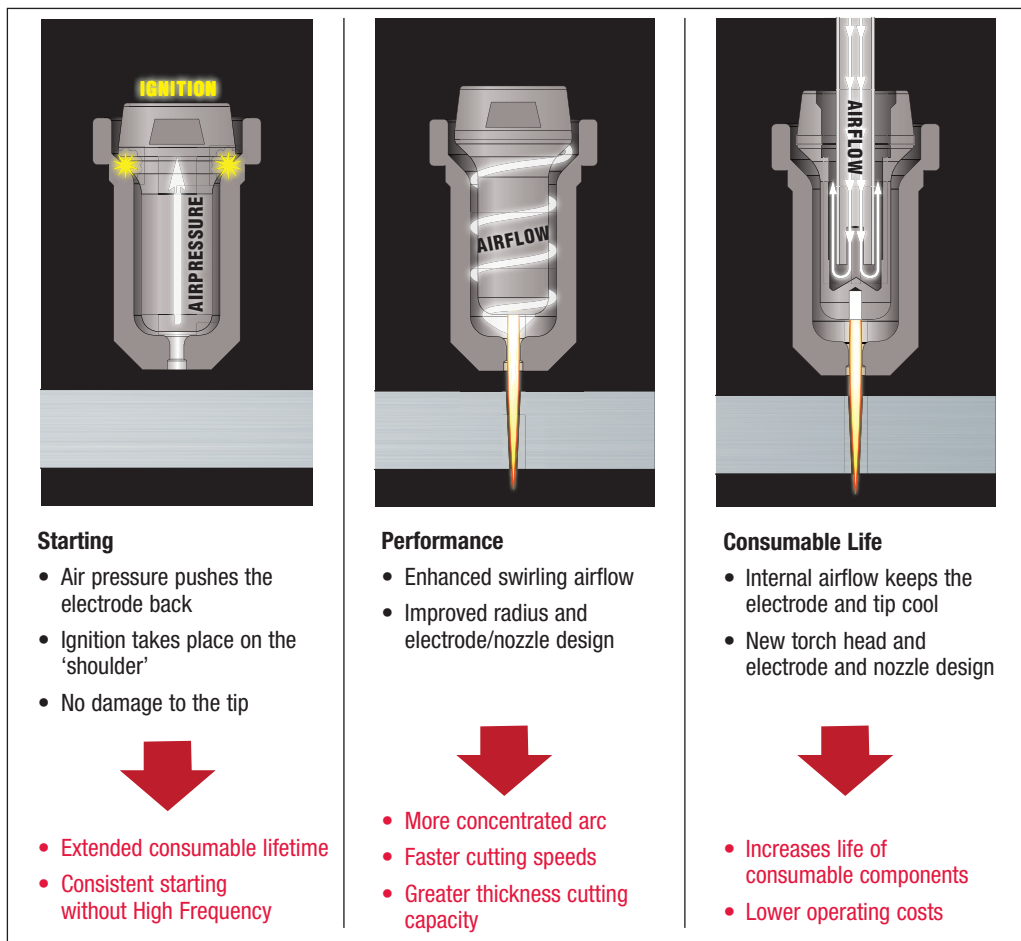


KEY CONTROLS

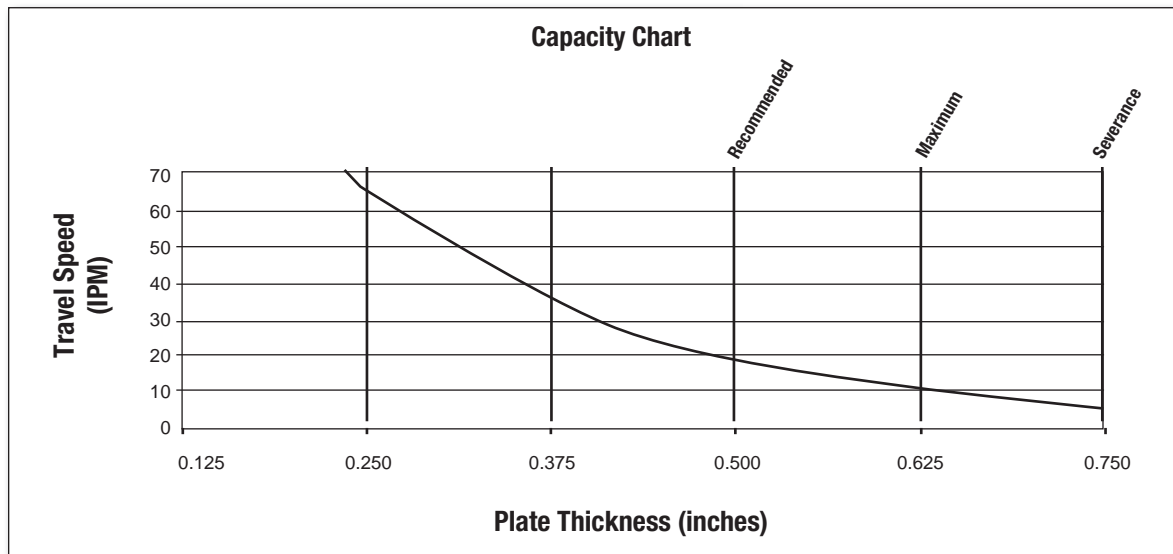


LINCOLN LC TORCH HEAD DESIGN

TORCH DESIGN FOR OPTIMAL STARTING AND PERFORMANCE



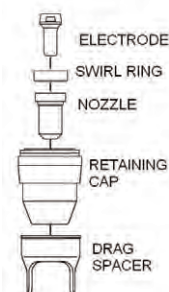
CUTTING PERFORMANCE MILD STEEL



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

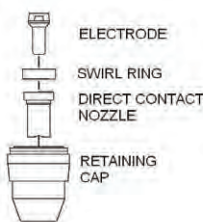
Stainless steel cutting speeds are typically 10-20% slower than mild steel.

CUTTING CONFIGURATIONS



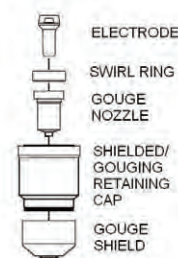
Standard

In the Standard Cutting configuration, the nozzle is designed for a user-maintained gap between the nozzle and the workpiece, unless the drag cup 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.



Contact

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 Contact Cutting. 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.

COMPATIBLE ENGINE DRIVES ⁽¹⁾



⁽¹⁾ When run in the high idle mode

The Tomahawk® 625 can be operated on engine driven generators as long as the 230 volt auxiliary meets the following conditions.

- The AC Waveform peak voltage is below 400 volts.
- The AC waveform frequency is between 45 and 65 Hz.
- The RMS voltage of the AC waveform is always greater than 208VAC.

RECOMMENDED ACCESSORIES

GENERAL OPTIONS



Plasma Circle Cutting Guide Kit
For cutting circles from 3-33 in. (77-838 mm) in diameter. Works with all Lincoln LC series plasma torches.
Order K2886-1



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



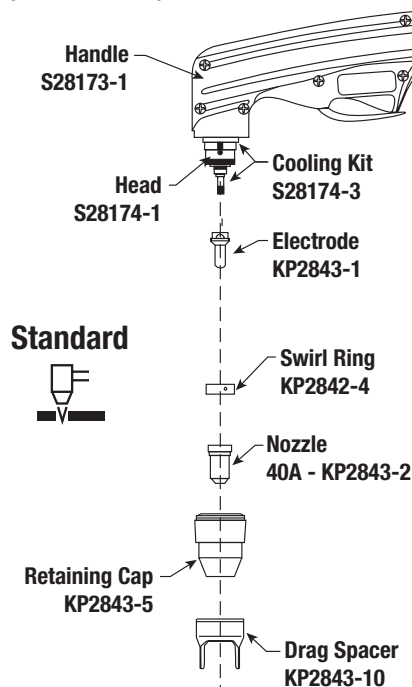
LC40M Plasma Torch 25'
Add this machine torch for use on CNC plasma cutting tables.
K2847-2 20 ft (6.0 m)

Lincoln Electric LC40 Replacement Torch
Includes 20 ft. (6 m) torch cable and one set of all required torch expendable parts.
Order K2847-1

REPLACEMENT TORCH CONSUMABLES

Lincoln Electric LC40 Parts

(Standard Parts)



- It is normal for the electrode and nozzle to wear during operation.
- Electrodes should typically be replaced when erosion reaches 0.025 in. (0.65 mm).
- A green and erratic arc will indicate the end of electrode life. The electrode should be immediately replaced.
- It is recommended that the KP2843-1 Electrode and KP2843-2 Nozzle (40A) be replaced as a complete set.

Contact (Optional Parts)



Nozzle
Direct Contact
25A-KP2843-9
40A-KP2843-3



TOMAHAWK® 625 TORCH CONSUMABLES

Product Number	Description	
KP2843-1	Electrode	Standard
KP2843-2	Nozzle 40A	Standard
KP2843-3	Nozzle (Contact) 40A	Optional
KP2843-4	Nozzle (Gouging)	Optional
KP2843-5	Retaining Cap	Standard
KP2843-6	Retaining Cap (Gouging)	Optional
KP2843-8	Gouge Shield	Optional
KP2843-9	Nozzle (Contact) - 25A	Optional
KP2843-10	Drag Spacer	Standard

Gouging (Optional Parts)



Gouge Nozzle
KP2843-4

Retaining Cap
KP2843-6

Gouge Shield
KP2843-8



PRODUCT SPECIFICATIONS

Product Name	Product Number	Input Power	Rated Output Current/Voltage/Duty Cycle	Input Current @ Rated Output	Pilot Current	Output Range	Air Pressure Required	Air Flow Rate Required	Dimensions H x W x D in. (mm)	Net Weight Without Torch lbs (kg)
Tomahawk® 625 with Hand Torch	K2807-1	208/230/1 50/60	24A/89.6V/100%	36.8A (Max)	17A	10-40A	80-110psi (6-7.5 Bar)	70psi @ 125-200SCFH	15.2 (385) 8.5 (215) 18.9 (480)	34 (15.42)
Tomahawk® 625 with Machine Torch	K2807-2		29A/91.8V/60% 40A/96.0V/35%							
								5 Bar @ 80 Liters/min.		

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THE WELDING EXPERTS®