WELD-PAK® 45i PLASMA DV

DUAL VOLTAGE PLASMA CUTTER



Shown:
K5420-1

PLASMA CUTTING - ANYWHERE, ANYTIME

The Weld-Pak® 45i Plasma DV is a lightweight (25 lbs), dual-voltage plasma cutter built for versatility. It cuts up to ¾" on 230V and ¼" on 120V power. Designed for portability, it features a built-in toolbox for cable storage. With 45 amps of power, it easily cuts thick or expanded metal, making it ideal for farms, HVAC, autobody shops, contractors, fabricators, and homeowners. The touch-start arc ensures reliable ignition without high-frequency issues, while the Parts-in-Place™ system guarantees proper setup. Just connect compressed air, grab the torch, and start cutting.

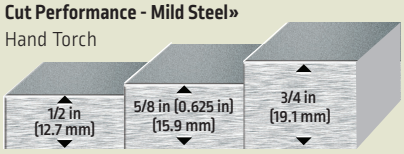
Processes »
Cuts Mild Steel, Stainless, Aluminum, Expanded Metal, and other Non-Ferrous Materials

Output »
DC

Input »
1 PHASE, 60 Hz, 115V, 230V

Product Numbers »
K5420-1

Cut Performance - Mild Steel»
Hand Torch



Recommended	Maximum	Severance
Rated Cut @ 20 ipm (0.51 m/min)	Maximum Cut @ 12 ipm (0.30 m/min)	Sever Cut @ 8 ipm (0.20 m/min)

Publication E11.800 | Issue Date 12/24
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VALUE-ADDED FEATURES

- **LED Display** – large, bright digital display of amperage setting
- **Continuous Output Control** – Focus the arc for different material thickness.
- **Touch Start System** – Reliable plasma arc initiation without high frequency.
- **Top Storage Compartment** – for convenient storage of torch, work cable, accessories, etc.
- **Lightweight and Portable** – Easily carried by one person.

KEY CONTROLS

1. Handle
2. Main Control Knob
3. Cut Mode Indicator LEDs
4. Cut Mode Button
5. Workpiece Lead Connection
6. Plasma Torch Connection
7. On/Off Switch
8. Input Cord
9. Cooling Fan
10. Compressed Air Connection

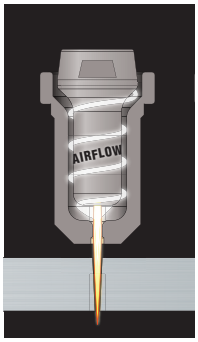


TORCH DESIGN FOR OPTIMAL STARTING AND PERFORMANCE



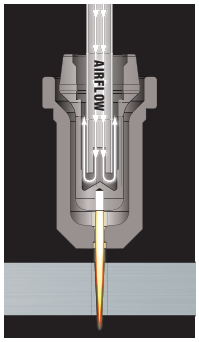
Starting
- Air pressure pushes the electrode back
- Ignition takes place on the 'shoulder'
- No damage to the tip

- Extended consumable lifetime
- Consistent starting without High Frequency



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

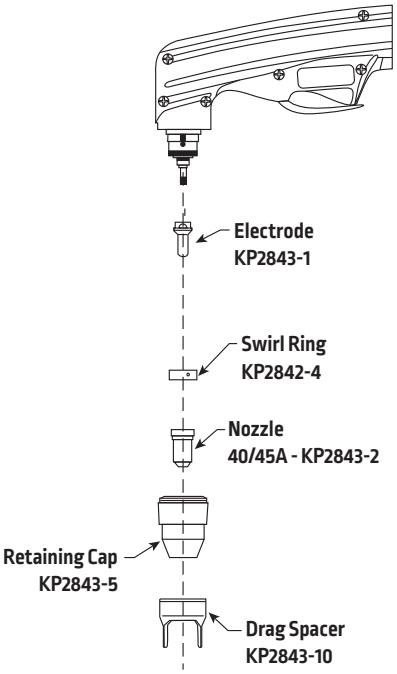
- More concentrated arc
- Faster cutting speeds
- Greater thickness cutting capacity



Consumable Life
- Internal airflow keeps the electrode and tip cool

Increases life of consumable components
- Lower operating costs

45I REPLACEMENT TORCH CONSUMABLES



- 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 (40/45A) be replaced as a complete set.

WHAT'S INCLUDED

	Base Unit (K5420-1)
Plasma torch 13 ft. (4 m) cable	•
Internal water separator	•
Work clamp and cable	•
Spare consumables	•
Shoulder strap	•
Input power cord	•
Dual voltage adapter	•



RECOMMENDED ACCESSORIES



Welding Cart
Offers lightweight transport for welders, plama cutters and welding accessories. An angled top shelf offers access to controls and a lower tray for added storage capacity. Full-featured cart is also designed to store and transport a 80 cu. ft. gas cylinder and welding cables.
Order K2275-3

RECOMMENDED ENGINE DRIVES [1]



Ranger® 260 MPX™



Ranger® 330MPX™



Ranger® 330MPX™ EFI



Ranger® AIR 260 MPX™



Vantage® 322



Vantage® 549X



Vantage®566X



Frontier® 400X



Maverick® 325X

[1] When run in the high idle mode.

The Weld-Pak™ 45i 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 55 and 65 Hz.
· The RMS voltage of the AC waveform is always greater than 208VAC.

PRODUCT SPECIFICATIONS

Product Name	Product Number	Input Power Voltage/Phase/ Hertz	Rated Output Current/Voltage/ Duty Cycle	Input Current @ Rated Output	Output Range	Gas Pressure Required	Gas Flow Rate	Dimensions H x W x D in (mm)	Net Weight lb (kg)
45i PLASMA DV	K5420-1	230/120/1/60	29A/92V/100% 37A/95V/60% 45A/98V/40 %	23A (Max)	15-45A	80 to 110 psi (6-7.5 bar)	70psi @ 125-200SCFH (5 Bar @ 80 Liters/min)	13 (330) 8 (203) 17 (431)	25 (11)

For best cutting results with Lincoln Electric® equipment, always use Lincoln Electric consumables. Visit www.lincolnelectric.com for more details.

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