

# 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 3/4" on 230V and 1/4" 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.

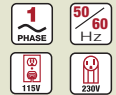
#### Processes »

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

#### Output »



#### Input »

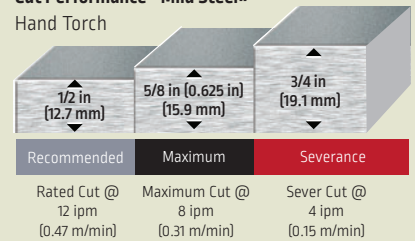


#### Product Numbers »

K5420-1

#### Cut Performance - Mild Steel»

Hand Torch



## VALUE-ADDED FEATURES

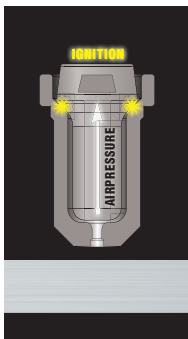
- **LED Display** – large, bright digital display of amperage setting
- **Continuous Output Control** – Focus the arc for different material thickness.
- **Touch Start System** – Reliable plasma arc initiation without high frequency.
- **Top Storage Compartment** – for convenient storage of torch, work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

## KEY CONTROLS

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



## TORCH DESIGN FOR OPTIMAL STARTING AND PERFORMANCE

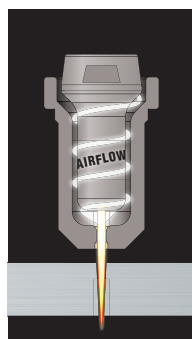


### Starting

- 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

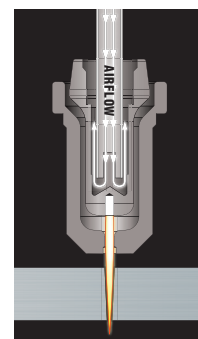


### Performance

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



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



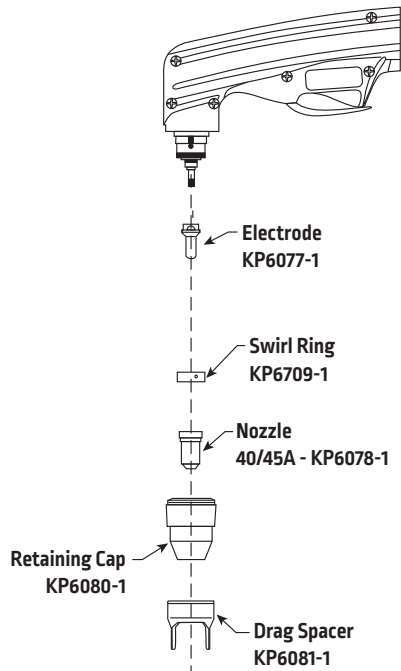
### Consumable Life

- 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, plasma 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 <sup>(1)</sup>



Ranger® 330MPX™



Ranger® 330MPX™ EFI



Ranger® AIR 260 MPX™



Vantage® 322



Vantage® 549X



Vantage® 566X



Frontier® 400X



Maverick® 325X

<sup>(1)</sup> 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	Recommended Circuit Breaker	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	230/120/1/50/60	<b>230 V</b> 32A / 92.8V / 100% 41A / 96.4V / 60% 45A / 98V / 50%  <b>120 V</b> 32A / 92.8V / 100% 15A / 86V / 100% 16A / 86.4V / 60% 20A / 88V / 20%	230 V - 30 A 120 V - 20 A	15-45A	80 to 130 psi (6-9 bar)	70psi @ 125-200SCFH (5 Bar @ 80 Liters/min)	13.7 (349) 8.5 (216) 17 (432)	25.9 (11.8)

For best cutting results with Lincoln Electric® equipment, always use Lincoln Electric consumables. Visit [www.lincolnelectric.com](http://www.lincolnelectric.com) for more details.

### CUSTOMER ASSISTANCE POLICY

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