

# FLEXCUT<sup>®</sup> 35 AIR

## PLASMA CUTTER



### CLEAR CUT PERFORMANCE

The FlexCut™ 35 Air delivers reliable cutting performance for small projects and light fabrication work. With steady power, consistent output, and a built-in air compressor, it keeps you moving without the need for shop air. The self-contained design makes setup faster, enhances portability, and ensures clean, reliable cuts anywhere you work. Built for versatility and ease of use, it offers precision and durability in a compact package. Perfect for everyday cutting of mild steel, aluminum, stainless steel, and grating, it's designed to run efficiently while keeping operation simple.

#### Processes »

Plasma Cutting, Grid cutting,

#### Applications »

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

#### Output »



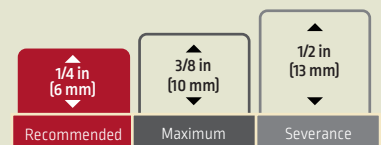
#### Input »



#### Product Numbers »

K5822-H HANDHELD ASSEMBLY  
K5822-PS POWER SOURCE ONLY

#### Cut Performance - Mild Steel»



## VALUE-ADDED FEATURES

- **35 Amps of Cutting Power:** Tackle thicker materials with confidence and precision.
- **High Duty Cycle:** Built for demanding applications without overheating or slowing down.
- **LCD Display:** Bright, easy-to-read screen with simple controls for quick and precise adjustments.
- **Dual Voltage Flexibility:** Plug into 120V or 230V power sources.
- **Multi-Process Capability:** Drag cutting, and grid cutting with one machine.
- **Portable Yet Rugged:** Portable design without compromising strength—easy to move, hard to damage.
- **Industrial IP23S Protection:** Resists dust and water spray for dependable performance in challenging conditions.

## KEY CONTROLS

- |                      |                      |
|----------------------|----------------------|
| 1. Handle            | 6. Input Power Cable |
| 2. User Interface    | 7. On/Off Switch     |
| 3. Main Control Knob | 8. Air Inlet         |
| 4. Torch Connection  | 9. Cooling Fan       |
| 5. Work Connection   |                      |



## USER INTERFACE

1. Amperage
2. Process
3. Adjust Air Source
4. Guided Cutting Setup
5. Advanced Settings
6. Gas Purge



## GUIDED CUTTING SETUP

### From power-on to precision cutting in seconds

Don't waste time with complicated setup. With FlexCut™, you're ready to cut in seconds.

1. Adjust machine amperage to recommended setting
2. **Select the Cutting Guide** icon on the main user interface.
3. **Enter your material type and thickness.**
4. **View the recommended cutting amperage**—automatically calculated for clean, precise results.



## BUILT-IN AIR COMPRESSOR

**Integrated Air Supply:** Built-in compressor eliminates the need for an external air source, making setup faster and easier.

**Consistent Air Pressure:** Provides steady, regulated airflow optimized for cleaner, more reliable cuts.

**Compact Footprint:** Self-contained design allows you to cut anywhere, even on jobsites or locations without shop air.

**Enhanced Portability:** Delivers full cutting performance in any environment where mobility matters.

## MORE CUTS. LESS COST. ZERO HASSLE.

**Long-Life Consumables:** Advanced electrode design and optimized airflow deliver more cuts per part, reducing replacement frequency and lowering operating costs.

**Threadless Electrode Connection:** No more seized threads—just smooth, quick changes every time.

**Snap-In Installation:** Tool-free design means you can replace consumables in seconds.



## CUTTING SPECIFICATIONS

Recommended Cut Thickness / Speed	1/4 in 20 ipm
Maximum Cut Thickness / Speed	3/8 in 10 ipm
Severance Cut Thickness / Speed	1/2 in 5 ipm



## WHAT'S INCLUDED

		Handheld Package K5822-H	Power Source Only K5822-PS
FlexCut® 35 Plasma Cutter	N/A	•	•
FlexCut® PRO Air Torch	KP5848-12-5	•	
Air Filter	KP5843-1	•	•
Work Clamp & Cable	KP6035-1	•	•
Input Power Cord	N/A	•	•
Shoulder Strap	KP6012-1	•	•
Complete Consumable Kit	KP5829-35A	•	
120V Input Adapter	KP6034-1	•	•

## RECOMMENDED ACCESSORIES



**Plasma Circle Cutting Guide Kit**  
For cutting circles 3-33in in diameter. Works with all Lincoln Electric FlexCut PRO torches  
Order KP5916-1

**Plasma Straight & Angle Cutting Kit**  
Guide for making straight cuts with any plasma cutting torch  
Order KP5917-1



**OMNISHield™ Face Shield**  
Shade 5 IR lens provides infrared light protection for plasma cutting applications  
Order K3754-1



**FlexCut PRO Torch**  
Includes 12.5 ft torch cable  
Order KP5848-12-5



**Cutting & Grinding Goggles** Full coverage shade 5 goggles for plasma cutting operations  
Order K3118-1



**35A Drag Cutting Consumable Kit**  
Full consumable kit for handheld plasma cutting at 35A with the FlexCut Air's internal air compressor  
Order KP5829-35A

## PRODUCT SPECIFICATIONS

Product Name	Product Number	Package Type	Input Power Voltage/Phase/Hertz	Rated Output Current/Voltage/Duty Cycle	Recommended Circuit Breaker	Output Range	Engine Drive Auxiliary Power Requirement	Gas Pressure Required [External Air Only]	Dimensions H x W x D in (mm)	Net Weight lb (kg)
FlexCut 35 Air	K5822-H	Handheld	120/240/1/50/60	35% @ 35A [230V] 60% @ 31A [230V] 100% @ 21A [230V] 20% @ 27A [120V]	30A	15-35A	5.5kW for 35A	90-130PSI	18.4 [468] 8.1 [205] 14.1 [359]	35 [15.9]
	K5822-PS	Power Source Only								

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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