

FLEXCUT[®] 85

PLASMA CUTTER



CLEAR CUT PERFORMANCE

Built for performance and endurance, the FlexCut™ 85 takes productivity to the next level. With seven plasma cutting processes, a high-duty cycle, and rugged reliability, it's the perfect fit for construction, general fabrication, and maintenance and repair applications. CNC-ready with built-in ports for quick setup and automatic detection, and a large LCD display for intuitive operation. Compatible with our FlexConnect™ Torch System, giving you the flexibility to switch between torch heads or cables in seconds.

Processes »

Drag Cutting, Grid Cutting, Mechanized, Extended, Precision Cutting, Gouging and Marking

Applications »

Automation, Maintenance & Repair

Output »



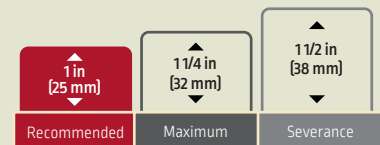
Input »



Product Numbers »

K5826-H HANDHELD ASSEMBLY
 K5826-M MECHANIZED ASSEMBLY
 K5826-PS POWER SOURCE ONLY

Cut Performance - Mild Steel»

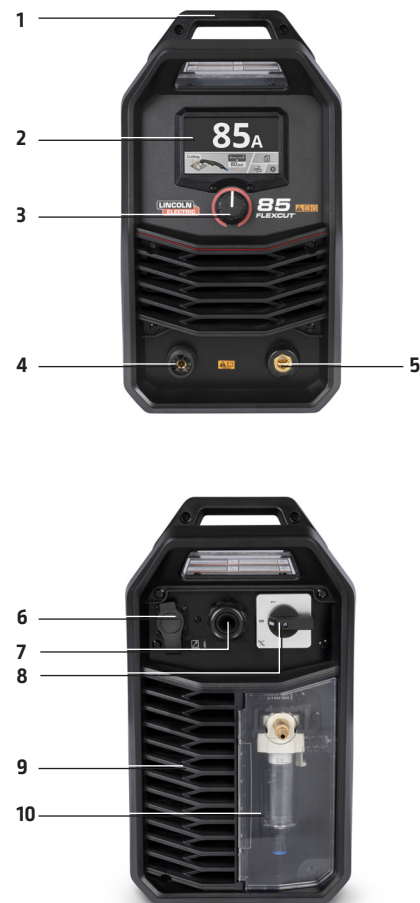


VALUE-ADDED FEATURES

- **85 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.
- **Input Power Flexibility:** Compatible with both 1-phase and 3-phase power.
- **Multi-Process Capability:** Drag cutting, fine cutting, gouging, and marking with one machine for maximum versatility.
- **Rugged by Design:** Heavy-duty construction built for real-world conditions—hard to damage, and ready to withstand impact, dust, and daily wear.
- **Industrial IP23 Protection:** Resists dust and water spray for dependable performance in challenging conditions.

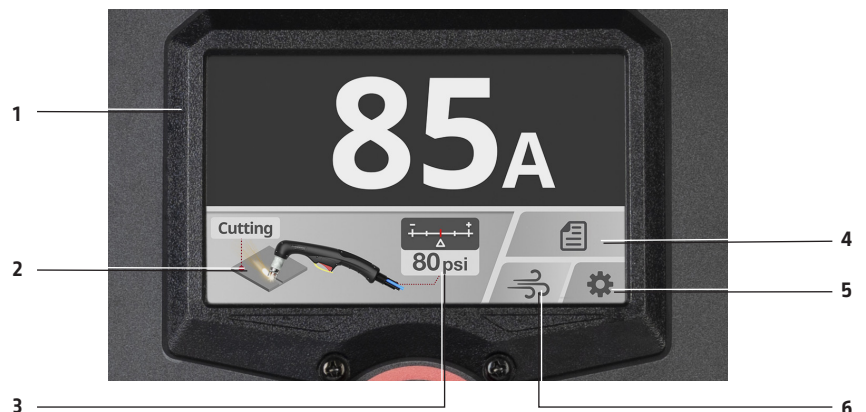
KEY CONTROLS

- | | |
|----------------------|-------------------------------|
| 1. Handle | 6. Remote Connection (14-pin) |
| 2. User Interface | 7. Input Power Cable |
| 3. Main Control Knob | 8. On/Off Switch |
| 4. Torch Connection | 9. Cooling Fan |
| 5. Work Connection | 10. Air Inlet |



USER INTERFACE

1. Amperage
2. Process
3. Adjust Air Pressure
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 settings
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.



FLEXCUT PRO™ TORCH WITH FLEXCONNECT™

One Torch. Endless Flexibility.

Patented FlexConnect™ Torch System: Switch between torch heads or cables in seconds—no tools required.

Customizable Options: Choose from multiple torch heads and cable lengths to fit your application.

Universal Machine Compatibility: Use one torch across the entire FlexCut™ machine lineup—no need for separate torches for different systems

Lower Repair Costs: Replace only the damaged part—head or cable—without buying a whole new torch.



MORE CUTS. LESS COST. ZERO HASSLE.

Long-Life Consumables: Advanced electrode design and optimized airflow deliver more cuts per consumable, 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 in / 17 ipm
Maximum Cut Thickness / Speed	1 1/4 in / 10 ipm
Severance Cut Thickness / Speed	1 1/2 in / 5 ipm
Pierce Thickness	3/4 in
Gouge Rate	10 lbs/hr



WHAT'S INCLUDED

		Handheld Package K5826-H	Mechanized Package K5826-M	Power Source Only K5826-PS
FlexCut® 85 Plasma Cutter	N/A	•	•	•
FlexCut® PRO FlexConnect® Handheld Torch	KP5850-25	•		
FlexCut® PRO FlexConnect® Mechanized Torch	KP5852-25		•	
Air Filter	KP5844-1	•	•	•
Work Clamp & Cable	KP6035-1	•	•	•
Input Power Cord	N/A	•	•	•
Complete Consumable Kit - Handheld	KP5829-85	•		
Complete Consumable Kit - Mechanized	KP5830-85		•	

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 FlexConnect Torch
Includes 25 ft torch cable and Lincoln Electric's patented handheld FlexConnect torch head
Order KP5850-25



FlexCut PRO Mechanized FlexConnect Torch
Includes 25 ft torch cable and Lincoln Electric's patented mechanized FlexConnect torch head
Order KP5852-25



85A Drag Cutting Consumable Kit
Full consumable kit for handheld plasma cutting at 85A
Order KP5829-85A

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	Dimensions H x W x D in (mm)	Net Weight lb (kg)
FlexCut 85	K5826-H	Handheld	200-240/1/50/60 200-600/3/50/60	85A @60% [200-600V 3PH]	80A - 1-PH 50A - 3-PH	25A-85A	20kW for 85A	90-130 psi	24.8 (630)	78.1 (35.4)
	K5826-M	Mechanized		85A @40% [200-220 1PH]					10.3 (206)	
	K5826-PS	Power Source Only		66A @100% [200-600V] 1/3-PH]					17.6 (447)	

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

CUSTOMER ASSISTANCE POLICY

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