

FLEXCUT[®] 65

PLASMA CUTTER



CLEAR CUT PERFORMANCE

The FlexCut™ 65 delivers powerful, reliable performance for both handheld and mechanized applications. With six plasma cutting processes, it's built to handle a wide range of jobs with speed and precision. CNC integration features built-in ports for easy setup and automatic detection, while the large LCD display provides clear, intuitive controls. 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 & Marking

Applications »

Construction, General Fabrication, Automation, Maintenance & Repair

Output »



Input »



Product Numbers »

K5825-H HANDHELD ASSEMBLY
K5825-M MECHANIZED ASSEMBLY
K5825-PS POWER SOURCE ONLY

Cut Performance - Mild Steel»

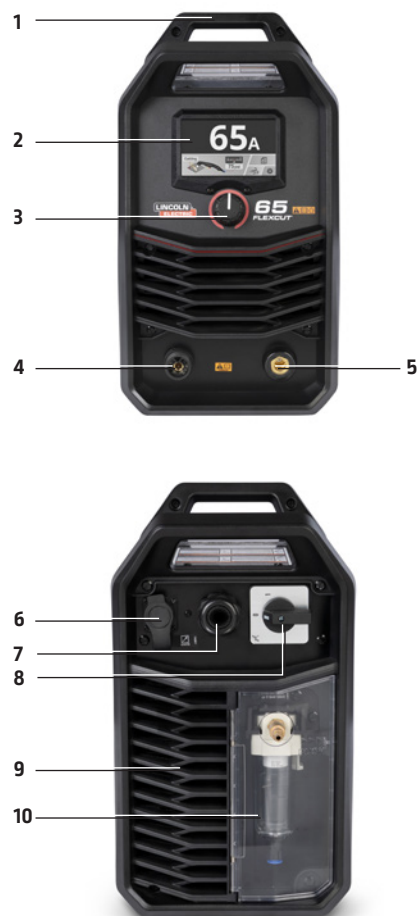


VALUE-ADDED FEATURES

- **65 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.
- **Plug-and-Play CNC Integration:** Built-in ports for easy setup - no extra kits required.
- **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.

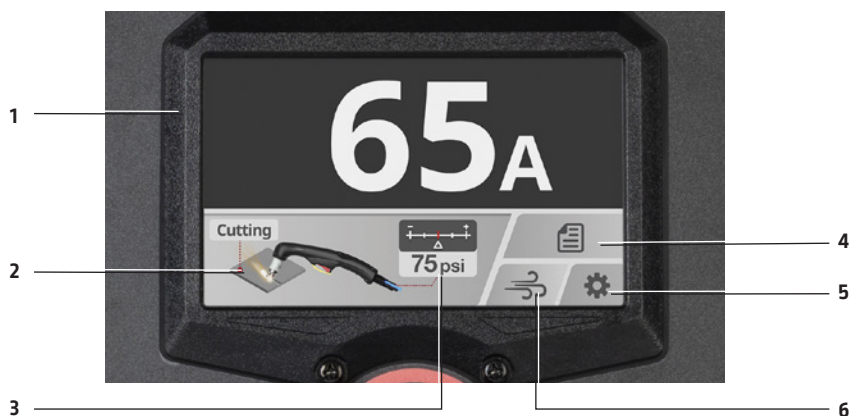
KEY CONTROLS

- | | |
|----------------------|-------------------------------|
| 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 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.



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	3/4 in / 20 ipm
Maximum Cut Thickness / Speed	1 in / 10 ipm
Severance Cut Thickness / Speed	1 1/4 in / 5 ipm
Pierce Thickness	5/8 in
Gouge Rate	9 lbs/hr



WHAT'S INCLUDED

		Handheld Package K5825-H	Mechanized Package K5825-M	Power Source Only K5825-PS
FlexCut® 65 Plasma Cutter	N/A	•	•	•
FlexCut® PRO FlexConnect® Handheld Torch 25 ft	KP5850-25	•		
FlexCut® PRO FlexConnect® Mechanized Torch 25 ft	KP5852-25		•	
Air Filter	KP5844-1	•	•	•
Work Clamp & Cable	KP6035-1	•	•	•
Input Power Cord	N/A	•	•	•
Complete Consumable Kit - Handheld	KP5829-65	•		
Complete Consumable Kit - Mechanized	KP5830-65		•	

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



65A Drag Cutting Consumable Kit
Full consumable kit for handheld plasma cutting at 65A
Order KP5829-65A

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 65	K5825-H	Handheld	200-240/1/50/60 200-600/3/50/60	50% @ 65A (200-600V 1/3PH)	80A - 1-PH 50A - 3-PH	20-65A	15kW for 65A	90-130<psi	24.8 [630]	76.3 [35]
	K5825-M	Mechanized		60% @ 60A (200-600V 1/3PH)					10.3 [262]	
	K5825-PS	Power Source Only		100% @ 46A (200-600V 1/3PH)					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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