

FLEXCUT® 125

PLASMA CUTTER



CLEAR CUT PERFORMANCE

The FlexCut™ 125 handles the toughest cutting jobs in construction, general fabrication, automation, and maintenance and repair. CNC-ready with built-in ports, automatic table detection, and machine torch compatibility, it integrates easily into automated systems. An industrial IP23-rated enclosure and rugged internal design ensure durability in demanding conditions. 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 »

Construction, Heavy Fabrication, Automation

Output »



Input »



Product Numbers »

K5828-H HANDHELD ASSEMBLY
K5828-M MECHANIZED ASSEMBLY
K5828-PS POWER SOURCE ONLY

Cut Performance - Mild Steel»

1 1/2 in [38 mm]	1 3/4 in [44 mm]	2 1/4 in [57 mm]
Recommended	Maximum	Severance

VALUE-ADDED FEATURES

- **125 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.
- **Plug-and-Play CNC Integration:** Seamless integration with CNC tables with automatic table detection for fast, precise 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
2. User Interface
3. Main Control Knob
4. Torch Connection
5. Work Connection
6. Remote Connection (14-pin)
7. Input Power Cable
8. On/Off Switch
9. Cooling Fan
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.

CNC INTEGRATION

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



Automatic Table Detection: Fast, precise setup.

CNC Torch Options: Compatible with machine torches for automated cutting.

CUTTING SPECIFICATIONS

Recommended Cut Thickness / Speed	1 1/2 in / 15 ipm
Maximum Cut Thickness / Speed	1 3/4 in / 10 ipm
Severance Cut Thickness / Speed	2 1/4 in / 5 ipm
Pierce Thickness	1 in
Gouge Rate	14 lbs/hr



WHAT'S INCLUDED

		Handheld Package K5828-H	Mechanized Package K5828-M	Power Source Only K5828-PS
FlexCut® 1025 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	KP5829-125	●		
Complete Consumable Kit - Mechanized	KP5830-125		●	

RECOMMENDED ACCESSORIES



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



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



125A Drag Cutting Consumable Kit
Full consumable kit for handheld plasma cutting at 125A
Order KP5829-125A

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



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



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

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 125	K58287-H	Handheld	400-600/3/50/60	100% 125 A 400-600 V 3-PH	50A	30A-125A	40kW for 125A	90-130 psi	27.2 [691]	90.6 [41]
	K5828-M	Mechanized							11.5 [292.1]	
	K5828-PS	Power Source Only							18.6 [472]	

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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