

# FLEXCUT<sup>®</sup> 105

## PLASMA CUTTER



### CLEAR CUT PERFORMANCE

The FlexCut™ 105 delivers reliable, high-duty-cycle performance built for demanding industrial environments. Advanced CNC integration includes built-in ports, automatic table detection, and machine torch compatibility for seamless automated cutting. With an industrial IP23-rated enclosure, reinforced components, and shock-resistant housing, it stands up to dust, water spray, and the rigors of daily use. 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, Automation, Maintenance & Repair

#### Output »



#### Input »



#### Product Numbers »

K5827-H HANDHELD ASSEMBLY  
K5827-M MECHANIZED ASSEMBLY  
K5827-PS POWER SOURCE ONLY

#### Cut Performance - Mild Steel»

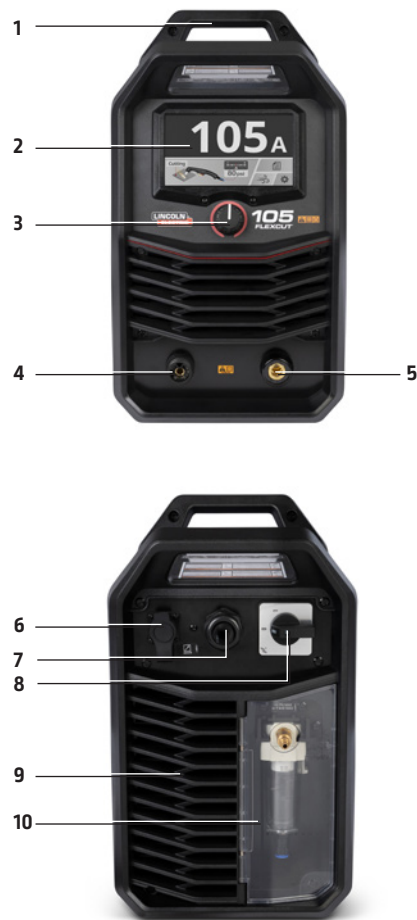


## VALUE-ADDED FEATURES

- **105 Amps of Cutting Power:** Tackle thick 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:** 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            | 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.



## 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 1/4 in / 15 ipm
Maximum Cut Thickness / Speed	1 1/2 in / 10 ipm
Severance Cut Thickness / Speed	2 in / 5 ipm
Pierce Thickness	7/8 in
Gouge Rate	11.5 lbs/hr



## WHAT'S INCLUDED

		Handheld Package K5827-H	Mechanized Package K5827-M	Power Source Only K5827-PS
FlexCut® 105 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	KP5829-105	•		
Complete Consumable Kit - Mechanized	KP5830-105		•	

## 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



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



**105A Drag Cutting Consumable Kit**  
Full consumable kit for handheld plasma cutting at 105A  
Order KP5829-105A

**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 105	K5827-H	Handheld	200-600/3/50/60	80% 105 A 400-600 V 3-PH 100% 94 A 400-600 V 3-PH	50A	30A-105A	30kW for 105A	90-130 psi	27.2 (691)	90.6 (41)
	K5827-M	Mechanized							11.5 (292.1)	
	K5827-PS	Power Source Only							18.6 (472)	

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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