

FlexCut®

PLASMA CUTTERS

LINCOLN ELECTRIC

Clear Cut Performance

FlexCut® delivers simplicity from the very start—taking you from power-on to precision cutting in seconds. With an intuitive interface and guided setup, you can dial in the best settings without guesswork. And with the patented FlexConnect™ system, one modular torch gives you endless flexibility across all your tasks and machines.

Built for real-world cutting environments, FlexCut® features long-life, hassle-free consumables and a rugged IP23-rated design with reinforced components and shock-resistant housing. Steady cutting power, high-duty cycles, and continuous output ensure confidence in every cut—backed by Lincoln Electric's unmatched expertise, rigid testing standards, and nationwide support network.





From Power-on to Precision Cutting in Seconds.

Don't waste time with complicated setup. With FlexCut®, you're ready to cut in seconds. Our intuitive interface and guided setup take the guesswork out of plasma cutting and allow you to dial in the best settings for your cut.

One torch. Endless Flexibility.

Simplify your set up with one torch for all your tasks – and all your machines. Our patented FlexConnect™ system gives you the flexibility to handle any job with one modular solution—saving time, money, and space.

More Cuts. Less Cost. Zero Hassle.

Consumables shouldn't drain your budget. FlexCut® consumables are engineered for maximum life and effortless replacement, so you spend less time on maintenance and more time cutting.

Rugged Design. Ready to Work.

From the inside out, FlexCut® is designed for real-world cutting environments. With an industrial IP23-rated enclosure, reinforced internal components, and shock-resistant housing, this system stands up to dust, water spray, and the demands of daily use.

Confidence in Every Cut.

FlexCut® delivers performance you can count on, with steady, reliable cutting power, high-duty cycles and continuous output, so you can tackle any job without interruptions.

Backed by Unmatched Expertise.

When you choose FlexCut®, you're not just buying a machine—you're gaining excellent service and support. Backed by Lincoln Electric's legacy of quality, rigid testing standards and a nationwide support network, we're here every step of the way.

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

Output »
DC

Product Number »
K5821-H/-PS FlexCut 35
K5822-H/-PS FlexCut 35 Air
K5823-H/-M/-PS FlexCut 45
K5825-H/-M/-PS FlexCut 65
K5826-H/-M/-PS FlexCut 85
K5827-H/-M/-PS FlexCut 105
K5828-H/-M/-PS FlexCut 125

From Power-on to Precision Cutting in Seconds.

Guided Cutting Setup:

Just enter your material type and thickness, and the system automatically recommends the perfect settings for a clean, precise cut while extending the life of your consumables.

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 with ease.

Plug-and-Play CNC Integration:

Built-in ports for easy setup - no extra kits required.







One Torch. Endless Flexibility.

Patented FlexConnect™ Torch System:

Switch between torch heads or cables in seconds—no tools required.

Universal Machine Compatibility:

Use one torch across the entire FlexCut®45- 125 machines

Customizable Options:

Choose from multiple torch angles and cable lengths to fit your application.

CNC Torch Options:

Compatible with machine torches for automated cutting.

Lower Repair Costs:

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





*FlexCut 45, 65, 85, 105, and 125 Ready-Paks come standard with a FlexConnect style torch

More Cuts. Less Cost. Zero Hassle.

Long-Life Consumables:

Advanced electrode design and optimized airflow deliver more cuts per part, reducing replacement frequency and help lowering operating costs.

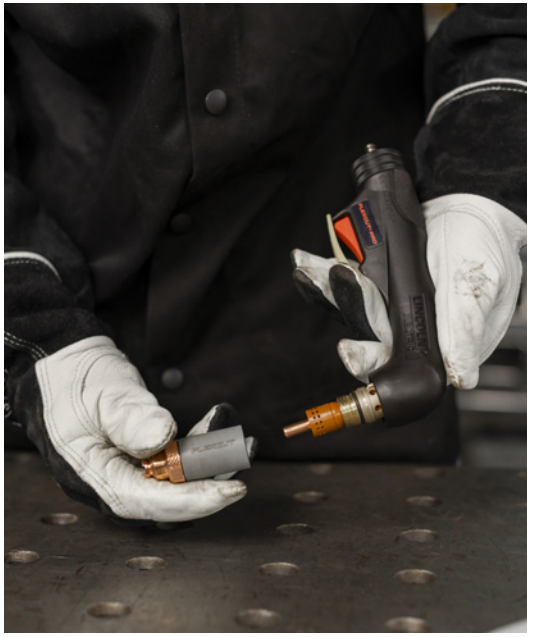
Threadless Electrode Connection:

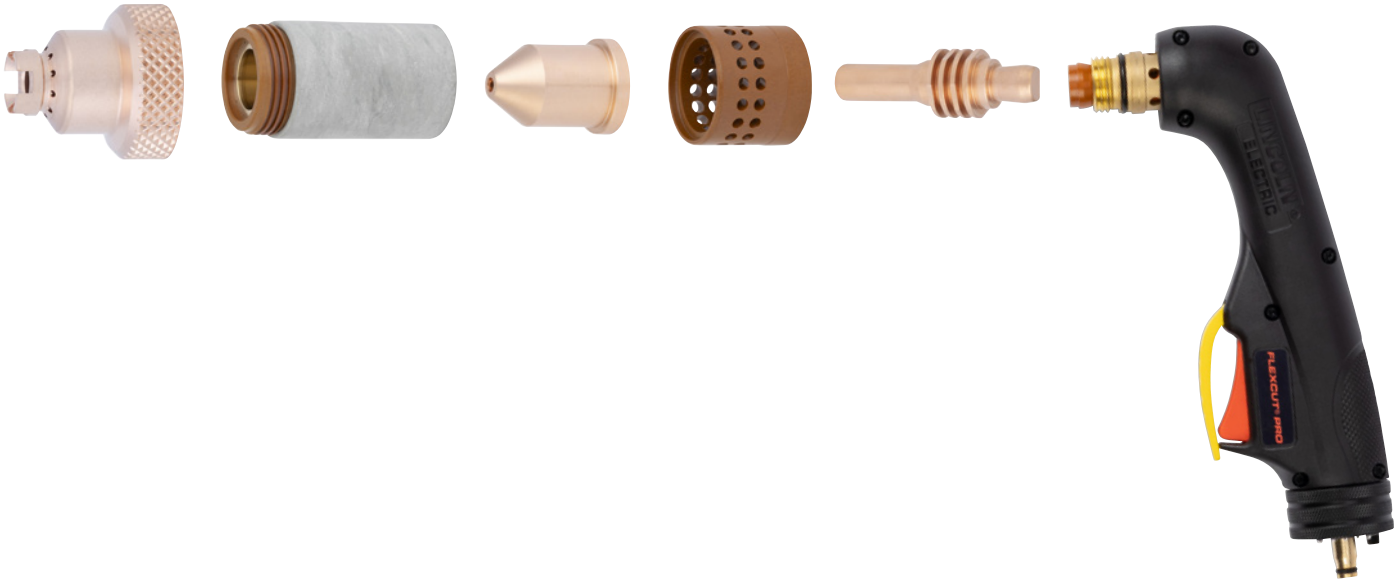
No more seized threads—just smooth, quick changes every time.

Snap-In Installation:

Tool-free design means you can replace consumables in seconds.







Rugged Design. Ready to Work.

Industrial IP23 Protection:

Resists dust and water spray for dependable performance in challenging conditions.

Heavy-Duty Construction:

Reinforced frame and shock-resistant housing safeguard critical components.

Portable Yet Rugged:

Portable design without compromising strength—easy to move, hard to damage.







Confidence in Every Cut

Continuous Output:

Maintains consistent performance during long cutting sessions and fast cutting on expanded metal.

High Duty Cycle:

Built for demanding applications without overheating or slowing down.

Material Versatility:

Excellent performance for whatever project comes your way - Mild Steel, Aluminum Stainless Steel, Grating.

Multi-Process Capability:

Drag cutting, fine cutting, gouging, and marking with one machine for maximum versatility.







Backed by Unmatched Expertise

Industry-Proven 5-Year Warranty:

Confidence built in from day one.

Dedicated Plasma Support:

Expert technicians and training resources at your fingertips.

Comprehensive Video Library:

Step-by-step videos for setup, maintenance, and tips to get the most out of your plasma cutter.

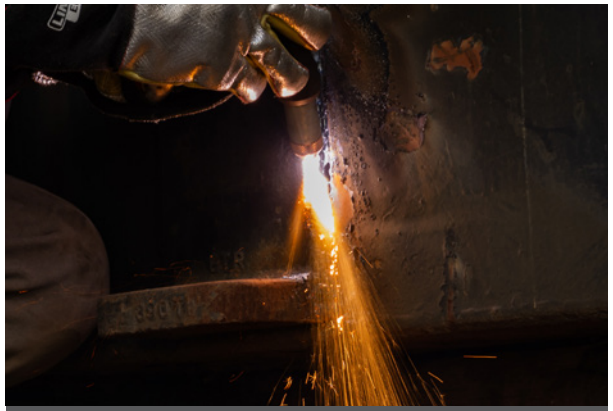




Cutting Processes



Mechanized Cutting



Gouging



Drag Cutting



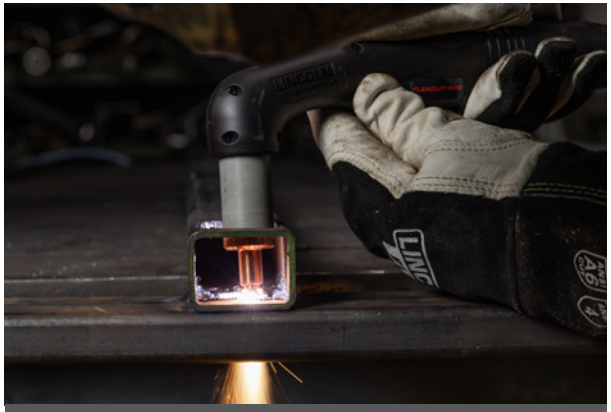
Precision Cutting



Grid



Marking



Extended Cutting


FLEXCUT 125
125A
LINCOLN ELECTRIC
125 FLEXCUT

FLEXCUT COMPARISON



PRODUCT	FlexCut® 35	FlexCut® 35 Air	FlexCut® 45	FlexCut® 65	FlexCut® 85	FlexCut® 105	FlexCut® 125
RECOMMENDED	1/4 in (6 mm)	1/4 in (6 mm)	5/8 in (16 mm)	3/4 in (19 mm)	1 in (25 mm)	1 1/4 in (32 mm)	1 1/2 in (38 mm)
MAXIMUM	3/8 in (10 mm)	3/8 in (10 mm)	7/8 in (22 mm)	1 in (25 mm)	1 1/4 in (32 mm)	1 1/2 in (38 mm)	1 3/4 in (44 mm)
SEVERANCE	1/2 in (13 mm)	1/2 in (13 mm)	1 in (25 mm)	1 1/4 in (32 mm)	1 1/2 in (38 mm)	2 in (51 mm)	2 1/4 in (57 mm)
PIERCE THICKNESS	N/A	N/A	1/2 in (13 mm)	5/8 in (16 mm)	3/4 in (19 mm)	7/8 in (22 mm)	1 in (25 mm)
GOUGING RATE	N/A	N/A	7.5 lbs/hr	9 lbs/hr	10 lbs/hr	11.5 lbs/hr	14 lbs/hr
AIR SUPPLY TYPE	External	Internal or External	External	External	External	External	External
NET WEIGHT	26.6 lbs	35 lbs	26.8 lbs	76.3 lbs	78.1 lbs	90.6 lbs	88.4 lbs
INPUT POWER	120/240/1/50/60	120/240/1/50/60	120/240/1/50/60	200-600/1/50/60 200-600/3/50/60	200-600/1/50/60 200-600/3/50/60	400-600/3/50/60	400-600/3/50/60
OUTPUT RANGE	15A-35A	15A-35A	15A-45A	20-65A	25A-85A	30A-105A	30A-125A
HANDHELD DRAG CUTTING	●	●	●	●	●	●	●
GRID CUTTING	●	●	●	●	●	●	●
PLASMA GOUGING			●	●	●	●	●
MECHANIZED CUTTING			●	●	●	●	●
EXTENDED CUTTING			●	●	●	●	●
PRECISION CUTTING	●		●	●	●	●	●
MARKING			●	●	●	●	●

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 @tra	Gas Pressure Required	Dimensions H x W x D in (mm)	Net Weight lb (kg)
FlexCut 35	K5821-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 30A	90-130 psi	18.4 [468] 8.1 [205] 14.1 [359]	26.6 [12.1]
	K5821-PS	Power Source Only								
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 30A	90-130 psi	18.4 [468] 8.1 [205] 14.1 [359]	35 [15.9]
	K5822-PS	Power Source Only								
FlexCut 45	K5823-H	Handheld	120/1/50/60 240/1/50/60	50% @ 45A [230V] 60% @ 41A [230V] 100% @ 32A [230V] 20% @ 27A [120V]	30A	15-45A	10kW for 45A	90-130 psi	18.4 [468] 8.1 [205] 14.1 [359]	26.8 [12.2]
	K5823-M	Mechanized								
	K5823-PS	Power Source Only								
FlexCut 65	K5825-H	Handheld	200-240/1/50/60 200-600/3/50/60	50% @ 65A (200-600V 1/3PH) 60% @ 60A (200-600V 1/3PH) 100% @ 46A (200-600V 1/3PH)	80A - 1-PH 50A - 3-PH	20-65A	15kW for 65A	90-130 psi	24.8 [630] 10.3 [262] 17.6 [447]	76.3 [35]
	K5825-M	Mechanized								
	K5825-PS	Power Source Only								
FlexCut 85	K5826-H	Handheld	200-240/1/50/60 200-600/3/50/60	85A @60% (200-600V 3PH) 85A @40% (200-220 1PH) 66A @100% (200-600V) 1/3-PH)	80A - 1-PH 50A - 3-PH	25A-85A	20kW for 85A	90-130 psi	24.8 (630) 10.3 (206) 17.6 (447)	78.1 (35.4)
	K5826-M	Mechanized								
	K5826-PS	Power Source Only								
FlexCut 105	K5827-H	Handheld	400-600/3/50/60	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) 11.5 (292.1) 18.6 (472)	90.6 (41)
	K5827-M	Mechanized								
	K5827-PS	Power Source Only								
FlexCut 125	K5828-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) 11.5 (292.1) 18.6 (472)	88.4 (40)
	K5828-M	Mechanized								
	K5828-PS	Power Source Only								

CUSTOMER ASSISTANCE POLICY

The business of Lincoln Electric is manufacturing and selling high quality welding equipment, automated welding systems, consumables, cutting equipment and EV charging systems. Our challenge is to meet the needs of our customers, who are experts in their fields, and to exceed their expectations. On occasion, purchasers may ask Lincoln Electric for information or technical information about their use of our products. Our employees respond to inquiries to the best of their ability based on information and specifications provided to them by the customers and the knowledge they may have concerning the application. Our employees, however, are not in a position to verify the information provided or to evaluate the engineering requirements for the particular weldment, or to provide engineering advice in relation to a specific situation or application. Accordingly, Lincoln Electric does not warrant or guarantee or assume any liability with respect to such information or communications. Moreover, the provision of such information or technical information does not create, expand, or alter any warranty on our products. Any express or implied warranty that might arise from the information or technical information, including any implied warranty of merchantability or any warranty of fitness for any customers' particular purpose or any other equivalent or similar warranty is specifically disclaimed.

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