FLEXCUT® RANGE

CLEAR CUT PERFORMANCE

www.lincolnelectric.eu

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.

Output

CC

DC

Input

1 PHASE

FlexCut® 35/35A

1/3 PHASE

FlexCut® 45

3 PHASE

FlexCut® 65
FlexCut® 85
FlexCut® 105
FlexCut® 125

Processes

- Drag Cutting
- Grid Cutting
- Mechanized Cutting
- Extended Cutting
- Precision Cutting
- Gouging
- Marking

Materials

- Mild Steel
- Aluminum
- Stainless Steel
- Grating

INDUSTRY LEADING
5-YEAR STANDARD WARRANTY

WHY FLEXCUT®

FROM POWER-ON
TO PRECISION CUTTING
IN SECONDS.

CONFIDENCE IN EVERY CUT.

ONE TORCH. ENDLESS
FLEXIBILITY.

MORE CUTS. LESS COST.
ZERO HASSLE.

BACKED BY
UNMATCHED
EXPERTISE.

RUGGED DESIGN.
READY TO WORK.

Up to
44 mm
THICKNESS

FROM POWER-ON TO PRECISION CUTTING IN SECONDS.

LCD Display

Bright, easy-to-read screen with simple controls for quick and precise adjustments.

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.

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

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.

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

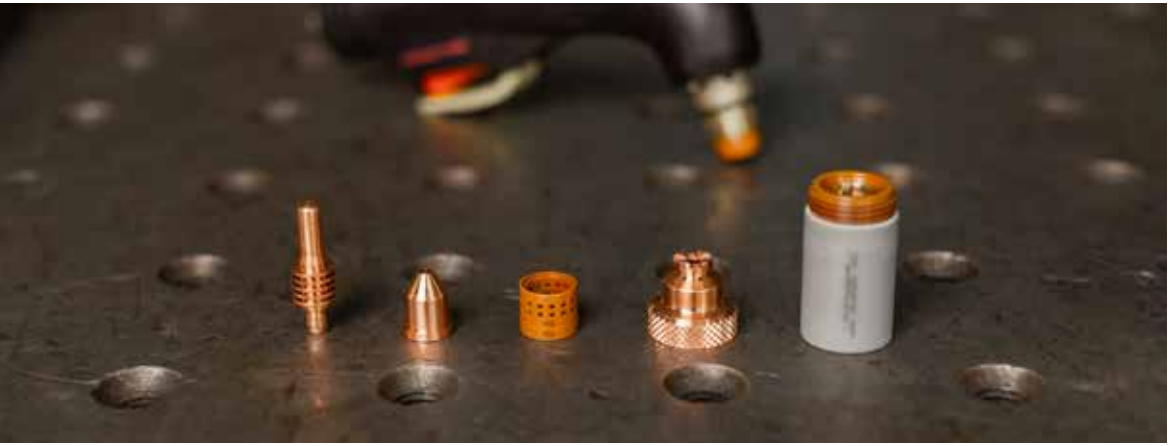
Choose from multiple torch angles and cable lengths to fit your application.

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.



MORE CUTS. LESS COST. ZERO HASSLE.

Long-Life Consumables

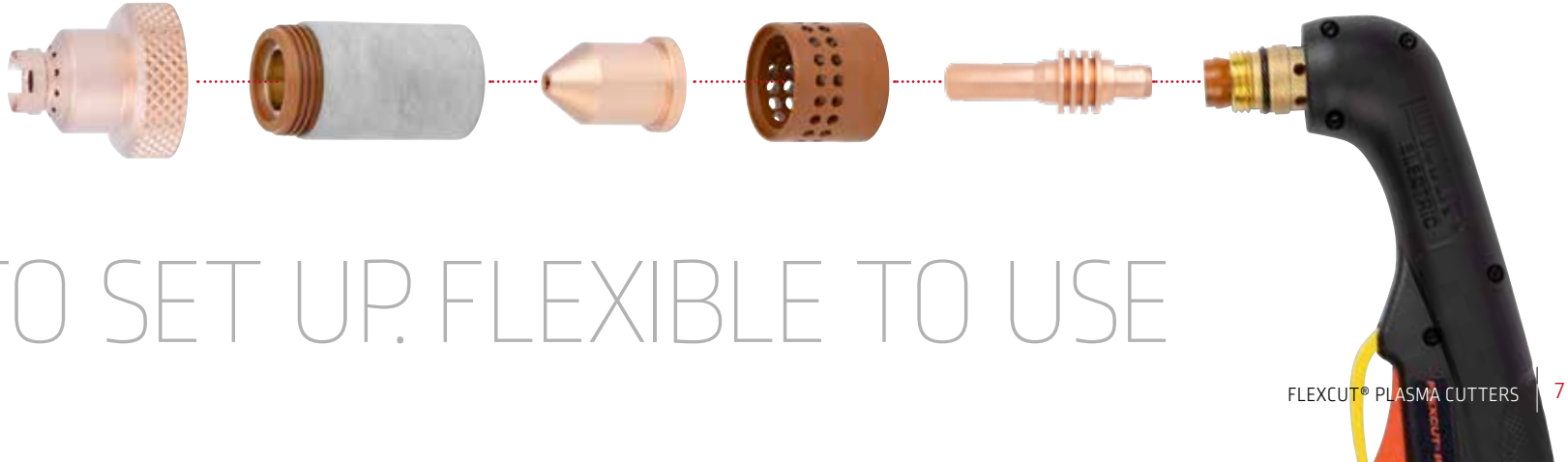
Advanced electrode design and optimized airflow deliver more cuts per part, reducing replacement frequency and helping to lower operating costs.

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.



SIMPLE TO SET UP. FLEXIBLE TO USE

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.

BUILT FOR RELIABLE PERFORMANCE

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

Designed for integration with CNC cutting tables and automated systems. Delivers consistent cut quality and repeatability across longer production runs.

GOUGING

Removes welds, defects and excess metal without cutting through the entire workpiece. Ideal for repair, preparation and controlled material removal.

DRAG CUTTING

Allows the torch to move directly along the surface of the material for simple, stable operation. Well suited to fast, accurate handheld cutting.

PRECISION CUTTING

Produces narrow kerfs and clean edges in applications requiring greater accuracy. Helps reduce finishing work and improve the quality of detailed cuts.

GRID CUTTING

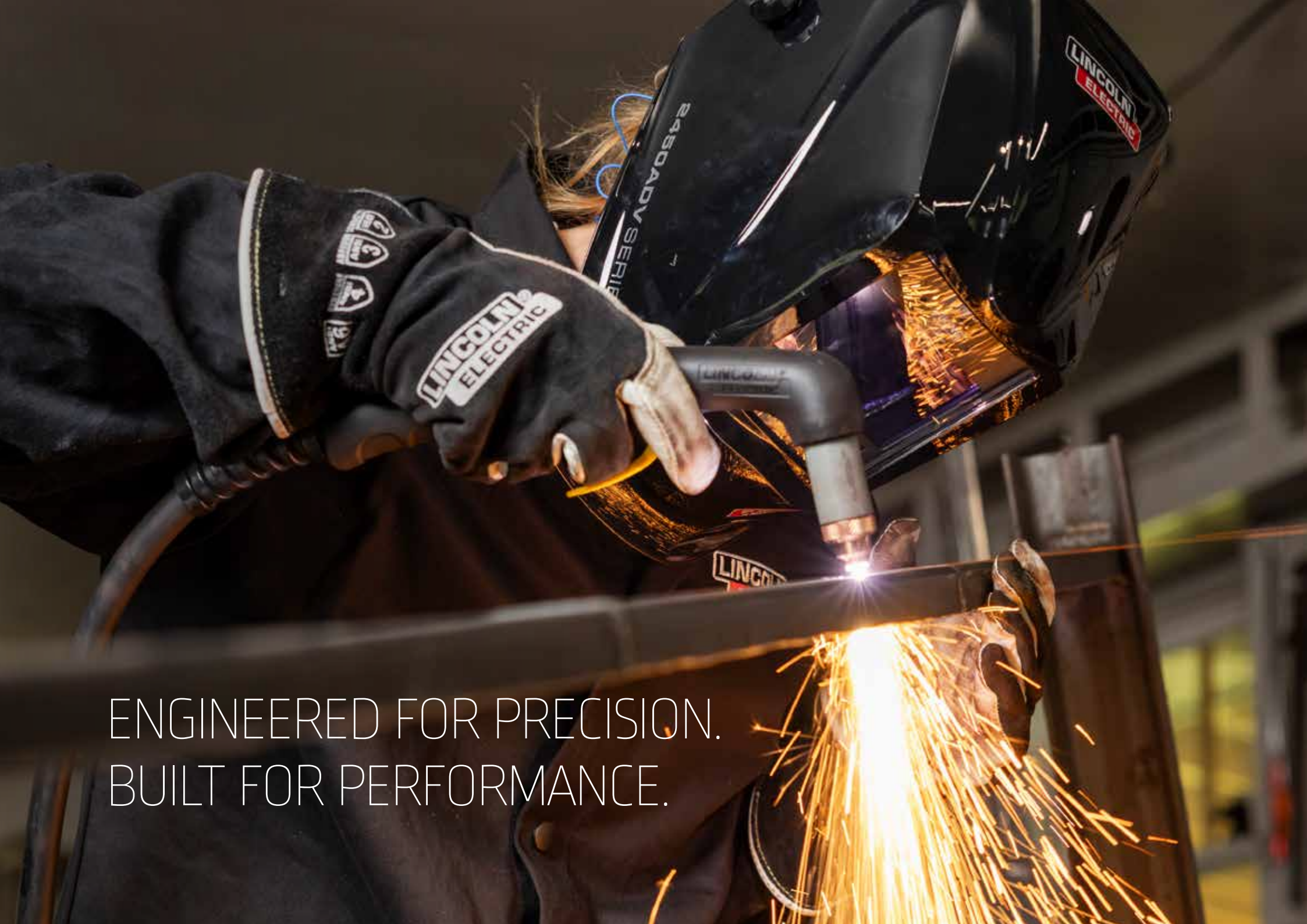
Maintains a stable arc when cutting expanded metal, grating and other interrupted surfaces. Supports faster work without repeatedly restarting the cut.

MARKING

Creates clear lines, reference points and part identification without cutting through the material. Useful for layout, assembly guidance and traceability.

EXTENDED CUTTING

Uses an extended torch configuration to reach confined, recessed or difficult-to-access areas. Provides greater control where a standard torch position is impractical.



ENGINEERED FOR PRECISION.
BUILT FOR PERFORMANCE.

FLEXCUT® COMPARISON

PRODUCT	FlexCut® 35	FlexCut® 35 Air	FlexCut® 45	FlexCut® 65	FlexCut® 85	FlexCut® 105	FlexCut® 125
RECOMMENDED	6 mm	6 mm	16 mm	19 mm	25 mm	32 mm	38 mm
MAXIMUM	10 mm	10 mm	22 mm	25 mm	32 mm	38 mm	44 mm
SEVERANCE	13 mm	13 mm	25 mm	32 mm	38 mm	51 mm	57 mm
PIERCE THICKNESS	N/A	N/A	13 mm	16 mm	19 mm	22 mm	25 mm
GOUGING RATE	N/A	N/A	3.4 kg/hr	4.0 kg/hr	4.5 kg/hr	5.2 kg/hr	6.3 kg/hr
AIR SUPPLY TYPE	External	Internal or External	External	External	External	External	External
NET WEIGHT	12.25 kg	17 kg	14.8 kg	35.2 kg	35.2 kg	40.85 kg	43.15 kg
INPUT POWER	120-230 / 1 / 50-60	120-230 / 1 / 50-60	230-400 / 1-3 / 50-60	230-400 / 3 / 50-60	230-400 / 3 / 50-60	400 / 3 / 50-60	400 / 3 / 50-60
OUTPUT RANGE	15A-35A	15A-35A	15A-45A	20A-65A	25A-85A	30A-105A	30A-125A
HANDHELD DRAG CUTTING	•	•	•	•	•	•	•
GRID CUTTING	•	•	•	•	•	•	•
PLASMA GOUGING			•	•	•	•	•
MECHANIZED CUTTING			•	•	•	•	•
EXTENDED CUTTING			•	•	•	•	•
PRECISION CUTTING	•		•	•	•	•	•
MARKING			•	•	•	•	•
INCLUDES	Work Clamp & Cable, Shoulder Strap			Work Clamp & Cable			

PRODUCT SPECIFICATIONS

Product Name	Product Number	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 (mm)	Net Weight (kg)
FlexCut® 35	K14450-1	120-230 / 1 / 50-60	**120V** 27A/90.8V@20% 16A/86.4V@60% 15A/86V@100%	**230V** 35A/94V@35% 27A/90.8V@60% 21A/88.4V@100%	16A	15A-35A	5.5kW for 30A	6.2 – 8.9 bar	468 x 205 x 359	12.25
FlexCut® 35 Air	K14451-1									17
FlexCut® 45	K14452-1	230-400 / 1-3 / 50-60	**230V** 45A/98V@50% 42A/96.8V@60% 32A/92.8V@100%	**400V** 45A/98V@50% 42A/96.8V@60% 32A/92.8V@100%		15A-45A	10kW for 45A			14.8
FlexCut® 65	K14453-1	230-400 / 3 / 50-60	**230V** 65A/106V@50% 60A/104V@60% 46A/98.4V@100%	**400V** 65A/106V@50% 60A/104V@60% 46A/98.4V@100%		20A-65A	15kW for 65A		630 x 262 x 448	35.2
FlexCut® 85	K14454-1		**230V** 85A/114V@60% 66A/106.4V@100%	**400V** 85A/114V@60% 66A/106.4V@100%		25A-85A	20kW for 85A			35.2
FlexCut® 105	K14455-1	400 / 3 / 50-60	**400V** 105A/122V@60% 94A/117.6V@100%		25A	30A-105A	30kW for 105A		691 x 293 x 476	40.85
FlexCut® 125	K14456-1		**400V** 125A/130V@100%		32A	30A-125A	40kW for 125A			43.15

ACCESSORIES

KP5850-25
FlexCut® Pro FlexConnect Torch – 7.5 m
for all models except
FlexCut® 35 CE and 35 Air CE

KP5848-12-5
FlexCut® Pro Air Torch – 3.8 m
for FlexCut® 35 Air CE

KP5849-25
FlexCut® Pro Torch – 4.5 m
for FlexCut® 35 CE

KP5829-X
Cutting consumable kit

KP5916-1
Plasma Circle Cutting Kit
KP5917-1
Plasma Straight Cutting Kit

FLEXCUT® CONSUMABLES

Consumable Type	Amps	Drag Cutting	Mechanized Cutting	Gouging	Extended Cutting	Precision Cutting	Marking
Kit	35A	KP5829-35					
	35A (Air)	KP5829-35A					
	45A	KP5829-45	KP5830-45	KP5831-85	KP5832-65	KP5833-45	KP5834-45
	65A	KP5829-65	KP5830-65				
	85A	KP5829-85	KP5830-85		KP5832-85		
	105A	KP5829-105	KP5830-105	KP5831-105	KP5832-105		
	125A	KP5829-125	KP5830-125	KP5831-125	KP5832-125		
Electrode	35A	KP5857-1					
	35A (Air)	KP5909-1					
	45A	KP5857-1			KP5858-1	KP5857-1	
	65A						
	85A						
	105A						
	125A						
Nozzle	35A	KP5861-1					
	35A (Air)	KP5862-1					
	45A	KP5863-1	KP5863-1	KP5872-1	KP5877-1	KP5868-1	KP5869-1
	65A	KP5864-1	KP5864-1				
	85A	KP5865-1	KP5865-1				
	105A	KP5866-1	KP5866-1	KP5874-1	KP5879-1		
	125A	KP5867-1	KP5867-1	KP5875-1	KP5880-1		
Swirl Ring	35A	KP5881-1					
	35A (Air)	KP5910-1					
	45A	KP5881-1	KP5881-1	KP5881-1		KP5836-1	KP5881-1
	65A		KP5882-1				
	85A						
	105A	KP5882-1	KP6058-1	KP5882-1			
	125A						
Retaining Ring	35A	KP5887-1					
	35A (Air)	KP5911-1					
	45A	KP5887-1	KP5887-1 (Standard) KP5888-1 (Ohmic)				
	65A						
	85A						
	105A						
	125A						
Shield	35A	KP5889-1					
	35A (Air)	KP5912-1					
	45A	KP5889-1	KP5891-1	KP5893-1	KP5894-1	KP5895-1	KP5837-1
	65A						
	85A						
	105A	KP5890-1	KP5892-1				
	125A						

FLEXCUT 35 AIR
LINCOLN
ELECTRIC

ISO OERLIKON AG Schweisstechnik
CH-5737 Menziken AG – Tel. +41 (0)62 771 83 05
E-Mail info@iso-oerlikon.ch – www.iso-oerlikon.ch

CUSTOMER ASSISTANCE POLICY
The business of The Lincoln Electric Company® is manufacturing and selling high quality welding equipment, consumables, and cutting equipment. Our challenge is to meet the needs of our customers and to exceed their expectations. On occasion, purchasers may ask Lincoln Electric for information or advice about their use of our products. Our employees respond to enquiries to the best of their ability based on information 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. Accordingly, Lincoln Electric does not warrant or guarantee or assume any liability with respect to such information or advice. Moreover, the provision of such information or advice does not create, expand, or alter any warranty on our products. Any express or implied warranty that might arise from the information or advice, including any implied warranty of merchantability or any warranty of fitness for any customers' particular purpose is specifically disclaimed.

Lincoln Electric is a responsive manufacturer, but the selection and use of specific products sold by Lincoln Electric is solely within the control of, and remains the sole responsibility of the customer. Many variables beyond the control of Lincoln Electric affect the results obtained in applying these types of fabrication methods and service requirements.

Subject to Change – This information is accurate to the best of our knowledge at the time of printing. Please refer to www.lincolnelectric.eu for any updated information.

LE-E2-26EN-M2539

www.lincolnelectric.eu