Kjellberg® FINSTERWALDE

HiFocus 130 neo

Plasma Cutting from 0.5 to 40 mm

Cutting and Marking with Contour Cut

www.kjellberg.de

neo: new – efficient – original

With HiFocus neo the user benefits from high speed when cutting and marking electrically conductive materials, ensuring at the same time excellent quality and low process costs. Thanks to optimised technology, the consumables are protected and the plasma cutting process is more efficient.

The high-precision unit HiFocus 130 neo achieves best results when marking and cutting materials with a thickness from 0.5 to 40 mm.

neo

contour cut SPEED

12 mm mild steel

Cutting faster by 50 %

The patented Contour Cut technology stands for precision when cutting mild steel. Small contours, narrow webs and above all small holes with a hole diameter to material thickness ratio of 1:1 can be cut with Contour Cut in excellent quality. Contour Cut Speed allows the cutting of contours in similar quality with a speed that is up to 50 % higher.

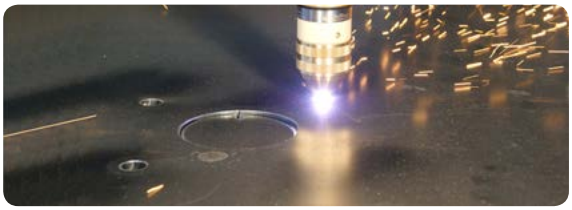
Advantages

- Suited for all common guiding systems as there are CNC-controlled guiding systems, pipe cutting machines or robots
- High-quality reproducible cutting results due to automatic gas control unit
- Long lifetime of consumables
- Higher cutting speeds reduce the costs per cutting metre
- Nearly dross-free cuts and therefore almost no rework required
- Low perpendicularity and surface roughness

Application Areas

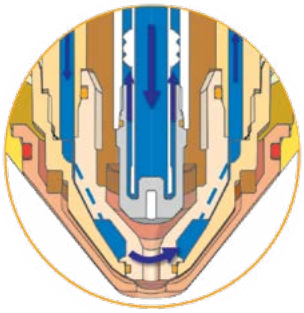
- Metal construction and engineering
- Steel service centres
- Steel and hall construction
- Plant and tank construction
- Pipeline engineering
- Shipbuilding
- Commercial vehicle industry
- Crane construction
- Offshore constructions
- Wind power plants

Bevel cutting



Cutting of large and small contours

Cost-saving Torch Technique



Liquid cooling system up to the torch tip

The Kjellberg plasma torches of the PerCut series are equipped with a unique liquid cooling system which guarantees a long lifetime of the consumables, thus making it possible to achieve savings in the gas consumption. Furthermore, the quick change head reduces the times for changing the consumables. Due to their acute-angled design, difficult-to-access areas can be reached easily and bevel cuts with an angle of up to 50° are possible.

Robust Consumables

Copper cathodes for cutting with oxygen

With the long-living consumables made by Kjellberg, changeover times can be reduced and the productivity of the cutting process increased. The previously offered range of consumables for cutting with oxygen is expanded by powerful copper cathodes which convince with a long lifetime and an excellent price-performance ratio.

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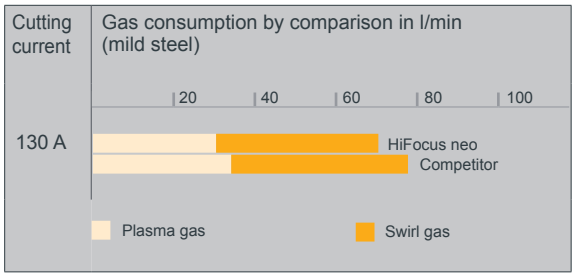
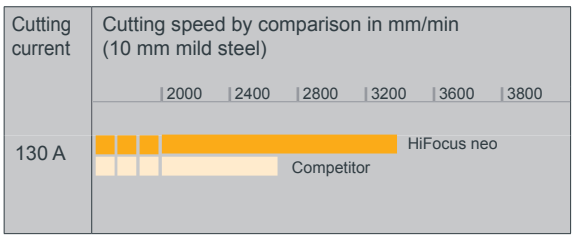
Efficient Gas Supply

Automatic gas supply FlowControl

The adjustment and control of the plasma gases can be done manually or automatically. The automatic gas control unit FlowControl stores the adjusted values of the plasma gases and thus allows a constantly high quality and reproducible cutting results.

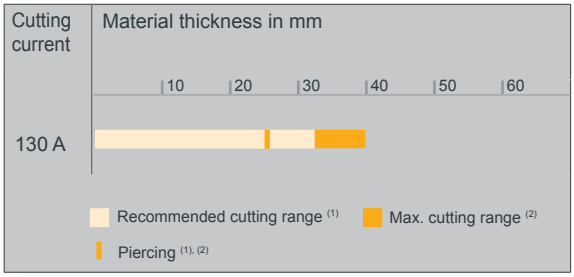


Cutting Speed



The units of the HiFocus neo series show a considerably higher cutting speed compared to competitive products. The results are narrow kerfs and thus fewer emissions and waste. The lower energy consumption and time expenditure resulting therefrom save the environment as well as the user's resources.

Cutting Ranges



(1) These data are depending on the materials to be cut and their compositions.
(2) Observe piercing capability.

Technical Data

Power source	HiFocus 130 neo
Mains voltage [1]	3x 400 V; 50 Hz
Fuse, slow	50 A
Connected load, max.	32 kVA
Cutting current 100 % duty cycle	20-130 A
Marking current 100 % duty cycle	16 A
Dimensions (LxWxH)	960 x 540 x 1050 mm
Mass	251 kg

[1] Other voltages and frequencies on request.

Plasma torch	PerCut
Standard version Quick change system	PerCut 201 PerCut 211
Cutting range	0.5 to 40 mm
Clamping diameter	50.8 mm
Plasma gas	O_2, Ar/H_2, N_2
Marking gas	Ar
Swirl gas	O_2, N_2, Air, F5 [2]

[2] Forming gas F5 (95 % N_2,5 % H_2)

Operating data (extract) [3]

	Mild steel		Stainless steel		Aluminium	
Material thickness (mm)	Cutting current (A)	Cutting speed (mm/min)	Cutting current (A)	Cutting speed (mm/min)	Cutting current (A)	Cutting speed (mm/min)
0.5	20	8000	–	–	–	–
1	20	5500	55	5500	35	3800
4	60	4100	80	3200	50	1500
6	90	3700	130	1700	130	3500
10	130	3400	130	1400	130	1300
15	130	1900	130	1100	130	1200
20	130	1300	130	700	130	1000
25	130	1000	130	500	130	800
30	130	500	130	400	130	500

[3] Listed cutting speeds are depending on material characteristics, gas parameters, guiding system as well as proper consumables. According to the quality requirements of the cutting task, the user may change the cutting speed.

Kjellberg Finsterwalde Group
Welding Electrodes
Welding Equipment
Cutting Equipment
Mechanical Engineering

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Kjellberg-plasma cutting units are CE-conform and correspond with the valid guidelines and instructions of the European Union. They are developed and fabricated on basis of the standard EN 60974 (VDE 0544). The plasma cutting units are labelled with the S-sign and therefore applicable to environments with increased hazard of electric shock. The fabrication takes place according to DIN EN ISO 9001. The factory-owned quality assurance comprises piece and cutting performance tests, documented by test certificate.

Our products represent a high level of quality and reliability. We reserve the rights to change design and/or technical specification during the series fabrication. Claims of any kind can not be derived from this brochure.

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