

Kjellberg
FINSTERWALDE

the
FINE FOCUS
company

Plasma Hand Cutting Inverter

For fabrication
and assemblage,
for shops
and construction sites



With Kjellberg Plasma through thick and thin.

High-Tec experiences also for cutting inverters

More than 40 years ago Kjellberg Finsterwalde has started as the first and leading manufacturer in Europe the development and production of plasma cutting equipment. Since that time the enterprise has contributed pioneering advances for improving the cutting results, the productivity and the variation of the products. One important milestone was the introduction of the FineFocus technology. Based on that approved and worldwide employed plasma technology, since the year 2000 the revolutionary HiFocus technology is overcoming the world of the automated cutting, representing the highest technical standard.

The plasma cutting units for manual and mechanized cutting operations make profit from the large experience and knowledge, gathered in the recent years from the development of the automated cutting technology. They significantly are completing the product range, and are giving the customer the possibility to choose individually the most effective unit for his job.

CUTi - inverters convince

Powerful and reliable

- Excellent cutting quality at all electrically conductive materials due to the up to date inverter technology with stepless current setting, high cutting capacity and sturdy plasma torches
- CUTi 31 and CUTi 51 are suitable for electronically controlled power generating sets
- Filter regulator for absolute dry plasma gas

Economic and productive

- Superior price efficiency of plasma units and consumables
- High cutting speed ensures optimum productivity
- Low energy consumption because inverter technology
- Cost saving plasma gas air (nitrogen applicable)
- Extremely favourable output to weight factor (international record value for CUTi 51: 20 kg at 120 A and 50 mm cutting thickness)
- Kit of spare parts ensures quick change of cathode and nozzle (standard accessory)

Flexible and reliable

- Easy handling and versatile use of all accessories, like cap for template cutting, contact cap, bevelling cap, circle attachment, special consumables for corner cutting (up to 70 A), and so on
- Comfortable handling of the units during transportation and operation because of low weight
- Central torch connector with safety circuit ensures safe and fast torch change and easy transportation
- CUTi 15 with mains adapter applicable for connection to a single phase socket (16 A) with reduced cutting current (max. 30 A)
- Suitable for the use in environments with increased hazard of electric shock



Assorted tools for manifold applications

Air cooled plasma torches - light-weighted and comfortable



Plasma torch PHT 31 for CUTi 15 and CUTi 31(left) and PHT 51 for CUTi 51, both with a distance spring for keeping a constant distance to the workpiece and for observing the plasma arc

Circles and straight lines



Guide wheels with circle attachment for circle cutting as well as for straight line cutting along markings

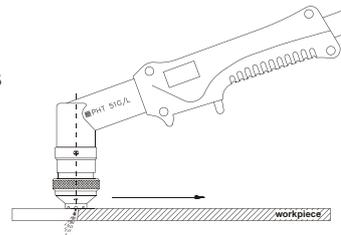
Corners and profiles



Extended consumables for cutting at inaccessible parts of workpiece

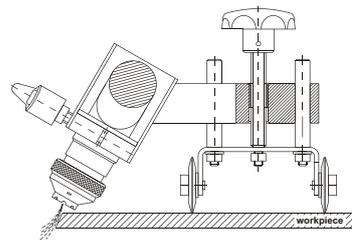
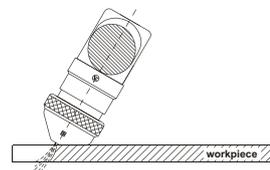
Template cutting

with contact cap makes torch handling easy as with distance spring or guide wheels



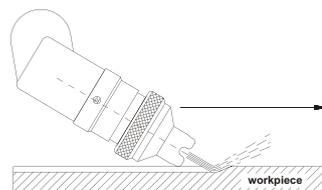
Bevel cutting

with bevelling cap for 30° and 45° or bevelling attachment with stepless inclination adjustment for plate cutting or welding seam preparation



Gouging

with special consumables, easy and clean (CUTi 31 and CUTi 51)



Technical data of the plasma inverters

Powerful reliable lightweights for flexible and mobile applications in shops and on erection sites



	CUTi 15	CUTi 31	CUTi 51
Connecting voltage (V)	1x230 +5% / -10 %	3 x 400 +6% / -10%	3 x 400 +6% / -10%
Connecting power (kVA)	7.3	10.4	22.1
Mains fuse, slow(A)	16 (single ph.)* / 32 (CEE)	16	32
Open circuit voltage (V)	280	240	240
Cutting current (A)	15 ... 40	20 ... 70	20 ... 120
Duty cycle	40A / 40%; 30A / 100%	70A / 35%; 50A / 100%	120A / 35%; 90A / 100%
Cutting range (mm)			
Plasma and cooling gas	Air	Air	Air
Air consumption (l/min)	130	140	195
Cutting press. (bar/MPa)	5.0 (0.5)	5.0 (0.5)	5.0 (0.5)
Weight w.mains cable (kg)	10	18	20
Dimensions (mm)	460 x 230 x 185	560 x 190 x 400	560 x 190 x 400
Ambient temperature (°C)	- 10 up +40	-10 up +40	- 10 up +40
Accessories (standard)	Shoulder belt *Mains adapter cable Filter regulator Spare parts kit	Shoulder belt Filter regulator Spare parts kit	Shoulder belt Filter regulator Spare parts kit

The plasma cutting units are CE conform and comply with the valid instructions and regulations of the European Union. They are developed and manufactured on basis of the standards EN 60974-1 (VDE 0544, part 1) and BGV D1.

All the Kjellberg plasma cutting units are holding the S-mark, and are therefore applicable in environments with increased hazard of electric shock.

The fabrication follows DIN EN 9001.

Our products are representing a high level of quality and reliability. We reserve the right to change design and/or specifications without notice. Claims of whatever kind can not derived from this prospectus.

Kjellberg
FINSTERWALDE

Kjellberg Finsterwalde Elektroden und Maschinen GmbH
Germany D - 03238 Finsterwalde Leipziger Str. 82
Tel.: +49 3531 500-0 Fax: +49 3531 500-227
e-mail: kjellberg@kjellberg.de
Internet: www.kjellberg.de

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