Kjellberg® FINSTERWALDE

Manual Plasma Cutting

Cutting up to 50 mm with CUTi and CUTLINE

Reliable Use
in Production, Workshops and Training Centres

www.kjellberg.de

CUTi – Mobile Cutting Inverter

The small power packages of the CUTi series are easy to handle and thus especially suitable for mobile use. From among the models of the series, the user may choose the unit which meets his individual requirements best.

With the plasma gas air mild steel, stainless steel, aluminium, brass, copper and other electrically conductive materials can be cut.

Include in delivery:
Original equipment kit (consumable parts, tools) and filter pressure regulator

All CUTi inverters operate with gas-cooled plasma torches and external compressed air supply. The CUTi 35C is additionally equipped with an integrated compressor.

Due to the sinusoidal power consumption with PFC (power factor correction), the inverter CUTi 35 draws its maximum power from the single-phase 230 V mains.

The CUTi series stands for mobility in practice.

Advantages at a Glance

- Light, portable, easy to handle
- Productive due to high cutting speed
- Energy saving due to modern inverter technique
- High cut quality
- Versatile use due to a large variety of accessories
- Safe working due to safety shut-down, also at workplaces with increased electrical endangerment
- Maintenance unit for trouble-free cutting

CUTLINE – Strong and Reliable

The robust units of the CUTLINE series cut all electrically conductive materials with the plasma gas air. Users may choose between units with the air-cooled plasma torches KjellCut (CUTLINE 20G, CUTLINE 40G) and the liquid-cooled plasma torches PHT (CUTLINE 20W, CUTLINE 40W).

Advantages at a Glance

- Low operating costs with liquid-cooled plasma torches
- Low material loss and reduced toxic emissions due to narrow kerfs
- Cut surfaces usable on both sides
- Plasma gouging without after-treatment
- Cutting start from the outside with burning pilot arc

The CUTLINE series with liquid-cooled plasma torches can be recommended especially for frequent and regular use.

Application Areas

Plasma gouging does not require after-treatment and produces less smoke compared to gouging with carbon electrodes.

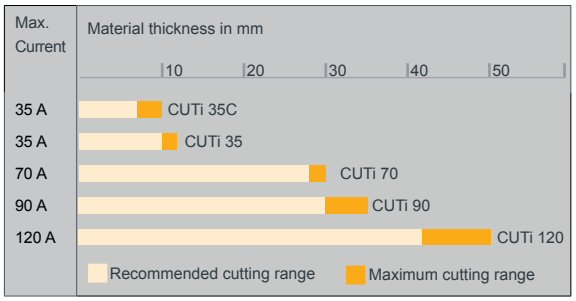
Suitable for Industry and Craft

- In workshops and training centres
- For repairing and servicing
- At assembly workplaces, on construction sites

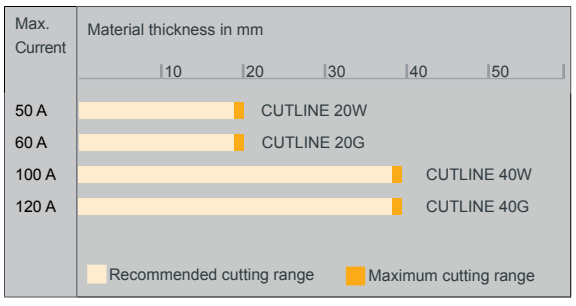
Application Areas of the Manual Units

- Straight, profile and contour cutting, also with templates
- For piercing and hole cutting
- Bevel cutting at any angle for weld preparation, possible with appropriate accessories
- Plasma gouging in preparation of weld joints, fettling, removal of welding mistakes and surface deffects with CUTLINE, CUTi 90 and CUTi 120

Cutting Ranges CUTi



Cutting Ranges CUTLINE



These data are depending on the materials to be cut and their compositions.

Convenient Hand Torches

Thanks to the ergonomic handle design and the low weight of the KjellCut plasma torches work is easy. In addition to the convenient operation, safety is also of prime importance here.

A switch-on protection prevents the unwanted ignition of the plasma arc.

Ergonomically designed plasma hand torch KjellCut

Accessories for CUTi and CUTLINE

A large variety of accessories is available for the flexible use of the CUTi and CUTLINE units.

Contact cap

Spacer spring

Bevelling cap

Bevel cutting device

Wheel guide

Circle cutting device

Template cuts

Long consumables

Technical Data

CUTi Series

	CUTi 35C	CUTi 35	CUTi 70	CUTi 90	CUTi 120
Mains voltage	1 x 230 V	1 x 230 V	3 x 400 V	3 x 400 V	3 x 400 V
Fuse, slow	16 A	16 A	16 A	25 A	32 A
Connected load, max.	3.3[4.8[1]] kVA	3.7 kVA	11.1 kVA	15 kVA	16.7 kVA
Protection class	IP 23	IP 21	IP 21	IP 21	IP 23
Cutting current	12–25 [35[1]] A	5–35 A	26–70 A	26–90 A	25–120 A
Duty cycle	25 % I 35 A 35 % I 25 A 100 % I 20 A	40 % I 35 A 60 % I 28 A 100 % I 22 A	35 % I 70 A 60 % I 60 A 100 % I 50 A	40 % I 90 A 60 % I 74 A 100 % I 55 A	35 % I 120 A 60 % I 95 A 100 % I 80 A
Cutting range	6[10[1]] mm	12 mm	30 mm	35 mm	50 mm
Ignition	Drawn arc	Drawn arc	High voltage	High voltage	High voltage
Plasma gas	Air	Air	Air	Air	Air
Pressure	0.4 MPa[1]	0.4 MPa	0.5 MPa	0.5 MPa	0.5 MPa
Air consumption	115 l/min	70 l/min	140 l/min	195 l/min	195 l/min
Dimensions (L x W x H)	550 x 150 x 245 mm	480 x 150 x 225 mm	470 x 180 x 250 mm	470 x 180 x 270 mm	610 x 230 x 410 mm
Weigth	12.5 kg	10 kg	16.4 kg	17 kg	28.5 kg

[1] With external compressed air supply

CUTLINE Series

	CUTLINE 20G	CUTLINE 40G	CUTLINE 20W	CUTLINE 40W
Mains voltage	3 x 230/400 V	3 x 400 V	3 x 230/400 V	3 x 400 V
Fuse, slow	32/25 A	32 A	32/25 A	32 A
Connected load, max.	16 kVA	24 kVA	16 kVA	24 kVA
Protection class	IP 22	IP 22	IP 22	IP 22
Cutting current	30/60 A	60/120 A	25/50 A	50/100 A
Duty cycle	50 %	50 %	60 %	60 %
Cutting range	20 mm	40 mm	20 mm	40 mm
Ignition	High voltage	High voltage	High voltage	High voltage
Plasma gas	Air	Air	Air	Air
Cooling	Air	Air	Kjellfrost	Kjellfrost
Pressure	0.5 MPa	0.5 MPa	0.5 MPa	0.5 MPa
Air consumption	140 l/min	195 l/min	25 l/min	25 l/min
Dimensions (L x W x H)	670 x 490 x 880 mm	820 x 490 x 880 mm	670 x 490 x 880 mm	820 x 490 x 880
Weight	74 kg	122 kg	84 kg	132 kg

Kjellberg Finsterwalde Group

Welding Electrodes
Welding Equipment
Cutting Equipment
Mechanical Engineering

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The plasma cutting units are CE conform and meet the current European CE directives. The development and manufacture takes place according to the following standards: EN 60974 (VDE 0544). All Kjellberg plasma cutting units have the S sign and are therefore applicable in workplaces with increased electrical endangerment. The manufacture takes place according to DIN EN ISO 9001. Our in-house quality management includes individual testing proved by certificates and product-related test records.

Our products represent a high level of quality and reliability. We reserve the right to change the design and/or technical specification during the serial production. Claims of any kind cannot be derived from this brochure.

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