

# Plasma Cutting Machines

## Plasma-Jet Compact K 1530

**SKU : 144035**

The model of the Plasma-Jet Compact K series is a tailor-made plasma cutting system that has been specially designed to meet the needs of our customers. With a compact design, this machine is suitable for use in small workshops as well as in large industrial companies. With the latest technology from Eckelmann and Kjellberg as well as high-quality components from world-famous manufacturers, this Plasma-Jet realizes high-quality cutting results and is suitable for multi-shift operation.

- Compact design - space saving and easy relocating
- Powerful Eckelmann controller with EtherCAT technology for full cutting control
- Wide selection of Kjellberg "made in Germany" cutting technologies (optional)
- High productivity, designed for multi-shift operation
- Low maintenance, rugged design



### TECHNICAL SPECS

#### WORKING AREA

Cutting width	1500 mm
Cutting length	3000 mm
Table height	600 mm
Table load capacity	410 kg/m <sup>2</sup>
Rapid feed	18000 mm/min
Plasma source	Kjellberg

#### MEASURES AND WEIGHTS

Weight	2250 kg
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## PRODUCT DETAILS

### Construction

- The Plasma-Jet Compact Series set themselves apart from the Plasma-Jet TrueCut series by a fully integrated machine frame that is connected to the table via a bottom plate, so the machine can be transported in one piece and requires minimum space
- If small plasma sources (e.g. Powermax) are used, they also are stored on a shelf inside the frame
- Table is prepared for dust collection system, being equipped with electro-pneumatically actuated suction flaps for an efficient fume extraction of the segment where the cutting process is momentary in action



*Workpiece weight is supported by catch grid. After their useful life, they can easily be reproduced*



*Machine control and operation are done on the main control panel which is located in front of the machine*



### Transmission and drives

- Dynamic AC servo drives from Panasonic on all axes with maintenance-free, zero-backlash planetary gears
- Low-wear and low-maintenance helical gears are designed for continuous operation
- Linear guide ways from on all axes, designed for long life and smooth motion even at high speeds. The width of linear guides on X/Y axes is 20/20 mm

### Cutting head

- Z axis with ball screw transmission and servo-driven automatic torch height control
- Quick-coupling for cutter head allows quick head exchanges for reduced tooling time

### Control

- CNC controller from Eckelmann
- The Eckelmann IBE software is delivered as standard.

### Please select the plasma source with the required power.

- Smart Focus 130 – maximum cutting capacity 40 mm, plunge-cuts 25 mm, recommended range 1-32 mm
- Smart Focus 170 – maximum cutting capacity 50mm, plunge-cuts 30mm, recommended range 1-35 mm
- Smart Focus 200 – maximum cutting capacity 60 mm, plunge-cuts 30 mm, recommended range 1-40 mm
- Smart Focus 300 – maximum cutting capacity 80 mm, plunge-cuts 40 mm, recommended range 1-60 mm
- Smart Focus 400 – maximum cutting capacity 100 mm, plunge-cuts 50 mm, recommended range for stainless steel 1-70 mm
- Q 1500 – maximum cutting capacity 60 mm, plunge-cuts 30 mm, recommended range 0,5-40 mm
- Q 3000 – maximum cutting capacity 80mm, plunge-cuts 50mm, recommended range 0,5 – 60 mm
- CutFire 100i - maximum cutting capacity 40 mm, piercing 20 mm, recommended range 3-32 mm

**Note: All specified cutting and piercing depths are dependent on the material as well as the cutting technology and guide system**

## CONTROLS & SOFTWARE

### Eckelmann CNC-Unit

## Eckelmann E°EXC 880 E°CUT ECO

- These application optimized CNC controles have extremely short cycle times, making them ideal for highy dynamic applications
- The HMI offers a clearly structured design with greater user comfort thanks to its simnplicity, yet providing intuitive access to all functions of the machine

## STANDARD EQUIPMENT

Table prepared for filter system (automatic closure control )  
Panasonic Servomotors qand drivers  
Automatic torch height control from Eckelmann  
Cutting torch with magnetic coupling and crash sensor  
Eckelmann CNC-Unit  
19" touchscreen by ELO  
A-Modul from Beckhoff  
Laser pointer  
Eckelmann IBE Software cncCUT Nest

## OPTIONAL EQUIPMENT

- CutFire 100i Plasma source, SKU : 253391
- K200 Plasma source, SKU : 254217
- Smart Focus 130 plasma source, SKU : 253877
- Smart Focus 170 plasma source with automatic gas console, SKU : 253881
- Smart Focus 200 Plasma source, SKU : 253878
- Plasma-Jet filter extraction system 4.000 m3/h, SKU : 253397
- Tube cutting system, 3,000 mm, for Compact series Kjellberg systems, SKU : 253870
- Square adaptor for square tube cutter unit on Plasma-Jet, SKU : 253651
- 1 meter extension for tube cutting, SKU : 253402
- Additional tube support, SKU : 253401
- Manual bevel device for cutting head, SKU : 253404
- Pressure reducer 1-step air 20 bar, SKU : 253100
- Pressure reducer 1-step O2 20 bar, SKU : 253104
- Pressure reducer 1-step Ar/Co2 20 bar, SKU : 253101
- Pressure reducer 1-step H2 20 bar, SKU : 253102
- Pressure reducer 1-step N2 20 bar, SKU : 253103
- Ext. Safety guard 15 bar 1/4" O2 for oxy-fuel cutting, SKU : 253097
- Additional license for Eckelmann IBE Software, SKU : 253998