

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	59 in
Cutting length	118 in
Table height	24 in
Table load capacity	84 lbs/ft²
Rapid feed	709 in/min
Plasma source	Kjellberg

MEASURES AND WEIGHTS

Weight	4950 lbs
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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



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

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 nesting software is delivered as standard

Please select the plasma source with the required power.

- Smart Focus 130 – maximum cutting capacity 1.6 inch, plunge-cuts 1 inch, recommended range 0.04 – 1.2 inch
- Smart Focus 170 – maximum cutting capacity 50mm, plunge-cuts 30mm, recommended range 1-35 mm
- Smart Focus 200 – maximum cutting capacity 2.4 inch, plunge-cuts 1.2 inch, recommended range 0.04 – 1.6 inch
- Smart Focus 300 – maximum cutting capacity 3 inch, plunge-cuts 1.6 inch, recommended range 0.04 – 2 inch
- Smart Focus 400 – maximum cutting capacity 4 inch, plunge-cuts 2 inch, recommended range for stainless steel 0.04-3 inch
- 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 1.6", piercing 0.8" , recommended range 0.12-1.3"

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 controls have extremely short cycle times, making them ideal for highly dynamic applications
- The HMI offers a clearly structured design with greater user comfort thanks to its simplicity, yet providing intuitive access to all functions of the machine

STANDARD EQUIPMENT

Table is prepared for filter system (automatic closure control)
Panasonic servo-motors and drives
Automatic torch height control by Eckelmann
Cutter torch with magnetic coupling and crash sensor
Eckelmann CNC unit
19" touchscreen by ELO
A-Module by 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 vacuum, 141 ft³/h, SKU : 253397
- Tube cutting system, 118", for Compact series Kjellberg systems, SKU : 253870
- Square adaptor for square tube cutter unit on Plasma-Jet, SKU : 253651
- 39" extension for tube cutting, SKU : 253402
- Additional tube support, SKU : 253401
- Manual chamfering unit for cutter head, SKU : 253404
- Pressure reducer 1-step air 290 psi, SKU : 253100
- Pressure reducer 1-step O₂ 290 psi, SKU : 253104
- Pressure reducer 1-step Ar/Co₂ 290 psi, SKU : 253101
- Pressure reducer 1-step H₂ 290 psi, SKU : 253102
- Pressure reducer 1-step N₂ 290 psi, SKU : 253103
- Ext. Safety guard 15 bar 1/4" O₂ for oxy-fuel cutting, SKU : 253097
- Additional license for Eckelmann IBE Software, SKU : 253998