

Plasma Cutting Machines

Plasma-Jet TrueCut K 2040

SKU : 144039

The machines of the Plasma-Jet TrueCut K series are highly specialized cutting systems for the production and one-off production of complex individual parts. Equipped with the latest technology from Eckelmann and Kjellberg and high-quality components from well-known manufacturers, this series is designed for high loads in multi-shift operation. With extensive optional equipment, this series is very versatile and offers tailor-made solutions for specific customer requirements, such as multiple torches, oxy-fuel cutting heads, mitre cuts or pipe processing units.

- Free-standing table construction for high accuracy
- Powerful Eckelmann controller with EtherCAT technology for full cutting control
- High productivity, designed for multi-shift operation
- Extensive option list for customized solutions



TECHNICAL SPECS

WORKING AREA

Cutting width	2000 mm
Cutting length	4000 mm
Table height	700 mm
Table load capacity	520 kg/m ²
Rapid feed	18000 mm/min
Plasma source	Kjellberg

MEASURES AND WEIGHTS

Weight	4100 kg
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Dual-drive bridge design with dynamic AC servo drives on all axes



Quick-coupling for cutter head



Powerful Eckelmann CNC-Unit with 19" touchscreen by ELO



High quality plasma source series from Kjellberg



PRODUCT DETAILS

Construction

- Stand-alone cutter table features rigid steel construction for high load capacity
- Stand-alone table eliminates thermal and mechanical influences on the plasma cutter system
- 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 20/30 mm
- The structure of the machine and the selection of components are designed to enable multi-shift operation

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
- Use the existing cutting parameters stored in the control to find the optimum cut
- Optimum bed speed even for fine contours and tight radii
- Available with 5-axis cutter head, tube cutter, and many more options

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

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 prepared for filter system (automatic closure control)
Panasonic Servomotors and 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

- Upgrade from Q 1500 Plus to Q 3000 Plus Plasmasource, SKU : 253916
- Oxy-fuel cutter head, SKU : 251915
- Additional tube support, SKU : 253401
- 1 meter extension for tube cutting, SKU : 253402
- Manual bevel device for cutting head, SKU : 253404
- Tanaka oxy-fuel cutter head, SKU : 253592
- Square adaptor for square tube cutter unit on Plasma-Jet, SKU : 253651
- Upgrade from Q 1500 to Q 1500 Plus Allgas Plasmasource, SKU : 253866
- Upgrade from Q 3000 to Q 3000 Plus Allgas Plasmasource, SKU : 253867
- Q 3000 Allgas Plasmasource, SKU : 253883
- Q 1500 Allgas Plasmasource, SKU : 253882
- Smart Focus 170 plasma source with automatic gas console, SKU : 253881
- Smart Focus 300 Plasma source, SKU : 253879
- Smart Focus 400 Plasma source, SKU : 253880
- Smart Focus 130 plasma source, SKU : 253877
- Smart Focus 200 Plasma source, SKU : 253878
- 5-axis chamfering and tube cutting system, 6,000 mm, SKU : 253875
- 5-axis chamfering and tube cutting system, 3,000mm, for Kjellberg systems, SKU : 253876
- Tube cutting system, 6,000 mm, SKU : 253873
- Tube cutting system, 3,000 mm, SKU : 253874
- 5-axis chamfering for Kjellberg systems, SKU : 253872
- Additional license for Eckelmann IBE Software, SKU : 253998
- Consumables starter set , structural steel, Q3000, SKU : 254008
- Consumables starter set , structural CrNi, Q3000, SKU : 254009
- Q 4500 all-gas plasma source, SKU : 254157
- Upg. von Q 3000 to Q 4500 Plasmasource, SKU : 254205
- Pressure reducer 1-step air 20 bar, SKU : 253100
- 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
- Pressure reducer 1-step O2 20 bar, SKU : 253104



KNUTH on YouTube

Information to the point

On our YouTube channel you can find videos for nearly all machines from our program. We show the machines from current deliveries and you get an impression of the handling, the processing quality and the machining performance.

**Are you interested in a machine for which you cannot find a current video?
Please feel free to contact us!**