



# 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, miter cuts or pipe processing units.

- Free-standing table construction for high accuracy
- Powerful Eckelmann controller 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 <sup>2</sup>
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 momentarily 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
- 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, 3,000mm, for Kjellberg systems, SKU : 253876
- 5-axis chamfering for Kjellberg systems, SKU : 253872
- Plasma-Jet filter extraction system 6.000 m3/h, SKU : 253398
- SKU : 254157
- Upg. von Q 3000 to Q 4500 Plasmasource, SKU : 254205