

NEW!

with Linear Motor Power (optional)



Premium 4820

With the Premium system 4820 you can manufacture more quickly by HSC milling technology with highest dynamics in best accuracy. To reach this quality requirement, a high-quality control concept with block cycle times in milliseconds range and precise high frequency spindles is decisive. The efficiency of the system can be extended to 5-axis machining or with different laser sensors head for the 3D digitisation / quality control as a Multi-Sensor Machine. By the very compact design it fits in each workshop.

standard features

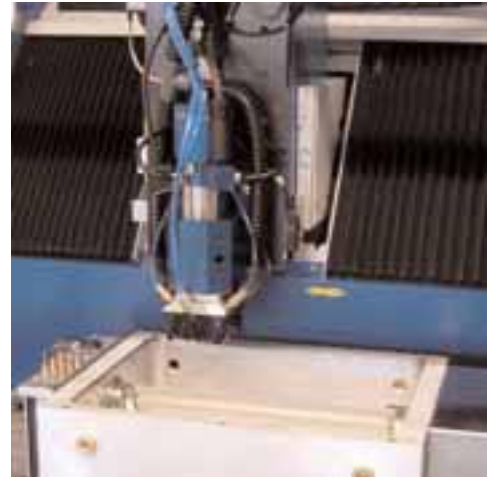
- steel under frame with granite table for highest stability and precision
- bellows cover in all axes
- HF spindle motor up to 2 kW / 50.000 rpm, HSK tool clamp
- most modern control electronics for HSC treatment and high speed digitisation
- linear motors or AC servo with ball screws
- control and power electronics completely integrated
- PC control MM2000 on WIN 2000-Basis with real-time board up to 0,1 ms cycle time
- I/O module configurable
- isy CAM integrated
- optionally: electronic hand wheel, touch probe, laser sensor, 10 times tool changer, 4th / 5th axis



Specifications	Premium 4820
design	bracket unit in Granite/Steel execution
travel stroke (X/Y/Z)	550x200x150mm (with out tool changer) 400x200x150mm (with tool changer)
linear guides	long-term maintenance-free, high load steel profile guides
coordinate table (X/Y)	900x380mm (with out tool changer) 600x380mm (with tool changer)
max. clamping weight	100Kg
dimensions (LxBxH)	1400x1220x1840mm
weight	~800Kg
drive system	linear motors or AC servo motors
repeating accuracy	linear motors = 0.0005mm AC Servo = 0.001 mm
resolution	linear motors = +/- 0.002mm AC Servo = < 0.005 mm
main spindle drive	high frequency spindle ES325 up to 2kW/50,000 rpm
control system	integrated path control HMC 2000 up to 6 axis
safety cover	safety cover with safety circuit module

The ultimate machining system for tool and mould making:

- small utility space
- mechanics completely totally enclosed, therefore problem free machining of graphite is possible
- dust removal system for machining graphite
- HSC technology and HF spindle
- problem-free exchange of the milling spindle possible
- laser sensor for the production of measurement reports
- linear motor drives (optional)



Applications:

- graphite electrodes
- copper electrodes
- steel moulds
- hard milling
- injection moulds
- jewellery industry
- engraving of stamps and signs
- tools and mould
- cylindrical working with the rotary axis (4. axis)
- 5-axis application with rotary /swivelling axis

linear motors most modern drive technology

- no backlash
- no mechanical friction
- no wear
- positioning problem

Typical materials for machining:

- graphite
- copper
- steel
- titanium
- aluminium
- plastics
- hardened steel
- ceramics

