

HIGH SPEED  
**EAGLE V550**

Perfect mastery  
of surfaces



## ENTRY INTO PRECISION MILLING

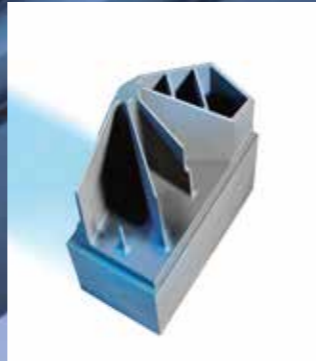
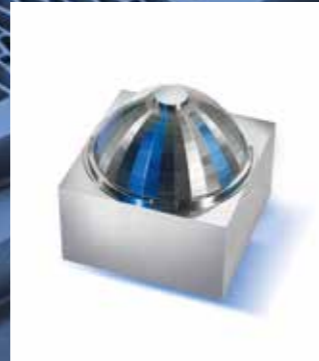
Highly dynamic and flexible to use

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## Entry into precision machining

As an entry-level model in the field of high-speed milling, the HIGH SPEED *EAGLE* V550 not only impresses with its small footprint, but is also equivalent to our other machines of the V-Line series in terms of quality and efficiency.

Like all of our machines, the HIGH SPEED *EAGLE* V550 is ideally positioned for machining copper and soft and hard machining of steel in addition to graphite machining.



## HIGH SPEED *EAGLE* V550

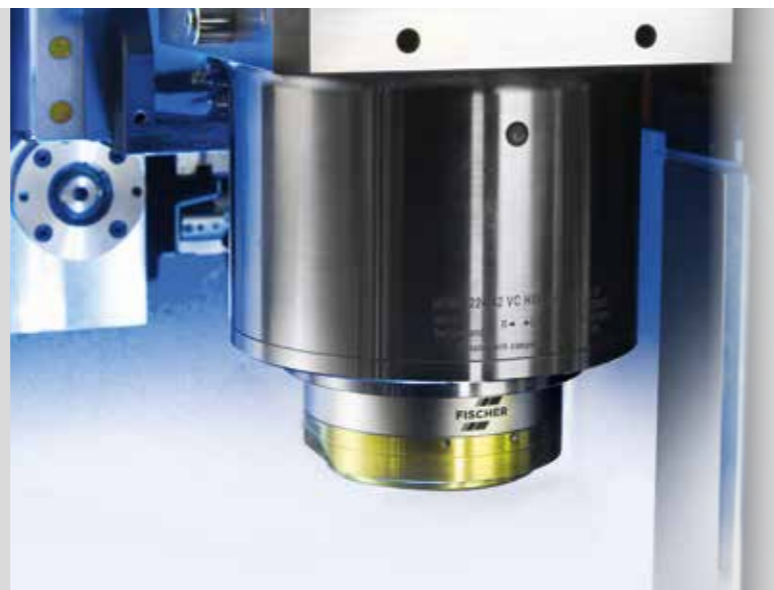
### 3-/5-axis machining

As a 3- or 5-axis machining center, the HIGH SPEED *EAGLE* V550 is equally suitable for the machining of complex electrode-geometries as well as for the production of precise mechanical parts in machine- and automotive-engineering and for the machining of inserts in tool and mould construction.

The highly dynamic HIGH SPEED *EAGLE* V550 is the entry-level model for complex 5-axis technology and is ideally suited for machining a wide range of materials.

### Precision strategies

Various options for cooling, geometry and temperature error correction for machine and cutting spindle, as well as a fully automatic working ATC (Automatic temperature-drift-control), assure the highest machining precision over the entire range of travel.



### HEIDENHAIN TNC 640

#### Control unit of the latest generation with 19" touch-screen

With strategies especially optimised for HSC machining, top results are achieved even with workpieces having different sizes. The specific concept of the V-Line in combination with the new features of the control unit, enables outstanding surfaces and precision with simultaneous optimisation of the machining time.



### Flexible automation solutions

Like all of our machines, the HIGH SPEED *EAGLE* V550 is also prepared for automation. Retrofitting is also possible, easily and quickly at any time.

The possibility of loading with tools and workpieces from two sides offers ideal conditions for compact automation solutions without limiting the operator's accessibility to the work space. Pallets of up to 400 x 400 mm can be loaded automatically.



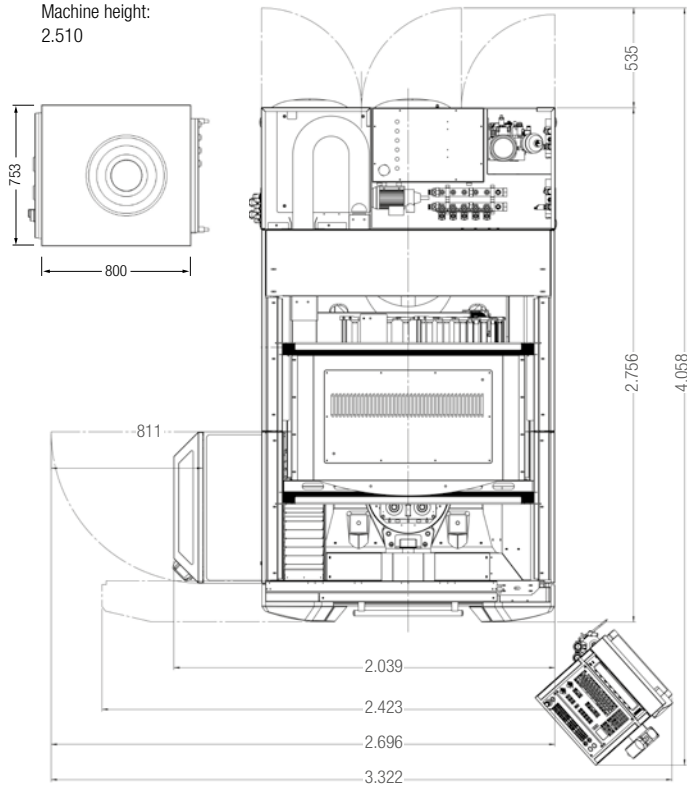
### MultiChange easy

Pallet changer for automatic loading of pallets or electrodes

- Loading by control with m-codes
- Retrofit of an existing machine is possible at any time
- 40 positions for electrodes or
- 5 positions for pallets (320 x 320 mm) or
- 4 positions for pallets (398 x 398 mm)

# HIGH SPEED EAGLE V550

Machine height:  
2.510



All dimensions specified in mm

## Workpiece dimensions



X / Y / Z  
550 / 400 / 400 mm  
max. 500 kg



Ø 400 mm / H = 380 mm  
max. 250 kg

## Setup – Technical data

Travel distances	X = 550 mm; Y = 400 mm; Z = 400 mm
Travel speed	max. 30 m / min
Acceleration	max. 15 m / s <sup>2</sup>
Table clamping surface	X = 650 mm; Y = 490 mm
Max. T-slot table load capacity	up to 500 kg
Table	T-slot table expandable over 4 <sup>th</sup> /5 <sup>th</sup> axis
T-slot	5 x 14 H12
Distance between HSK-spindle nose and table, min./max	155 / 555 mm 50 / 450 mm (with UPC-clamping system and pallet)
Workpiece size 3-axis X/Y/Z	550 / 400 / 400 mm (max. 500 kg)
Workpiece size 5-axis	Ø 400 mm; H = 380 mm (max. 250 kg)
Connected load	32 kVA
High-frequency spindle	HSK E40: 1 - 42.000 rpm
Spindle power	15 kW
Tool changer selection	32 positions (HSK E40) Optional: MultiTool 100/150
Minimum lubrication	included
CNC control unit	HEIDENHAIN TNC 640 with 19" touchscreen
Dimensions	2.756 x 2.039 mm; H = 2.510 mm
Total weight	8.500 kg
Options	HSC round swivel table: Geared B-axis -120 degrees / +60 degrees Geared C-axis 20 rpm Workpiece weight: 250 kg
Further options	BLUM LC50-DIGILOG Laser system for tool measurement Infrared measuring probe, 3D-measuring Graphite exhaust system, Oil mist suction unit ATS Aerosol dry lubrication MHT medium distributor Email messenger Ready-for-automation, EcoTec Software options HEIDENHAIN

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