

CNC-Machining centre

vision



Power, speed and precision
in harmony

HAMUEL
REICHENBACHER
A member of the SCHERDEL group

VISION

Workpieces show what the machine can do

Thanks to the inclusion of a cardanic working head the capability of the VISION has extended to provide smaller and medium-sized joinery companies and shop fitters a low-priced entry into three-dimensional machining. The VISION SPRINT unlocks the full potential of 5-axis machining with its versatility, flexibility and high quality machining capability.

The positioning accuracy of the working aggregate shows that the VISION SPRINT is admirably suited to the requirements of stairs and door production. The two swivelling axes are inclined at 45 degrees to each other and optimise to intersect their centre axes at the working point of the tool. By this principle the position of the working point does not change when swivelling in space, which means that compensation motions of the linear axes are not necessary. The working area of the machine is only reduced slightly by the tool when in the horizontal position.

The compact and rigid construction of the machine results in outstanding workpiece quality. With an excellent combination of low price and performance, the VISION SPRINT gives the opportunity to limit production costs for high-quality workpieces – making quality affordable.

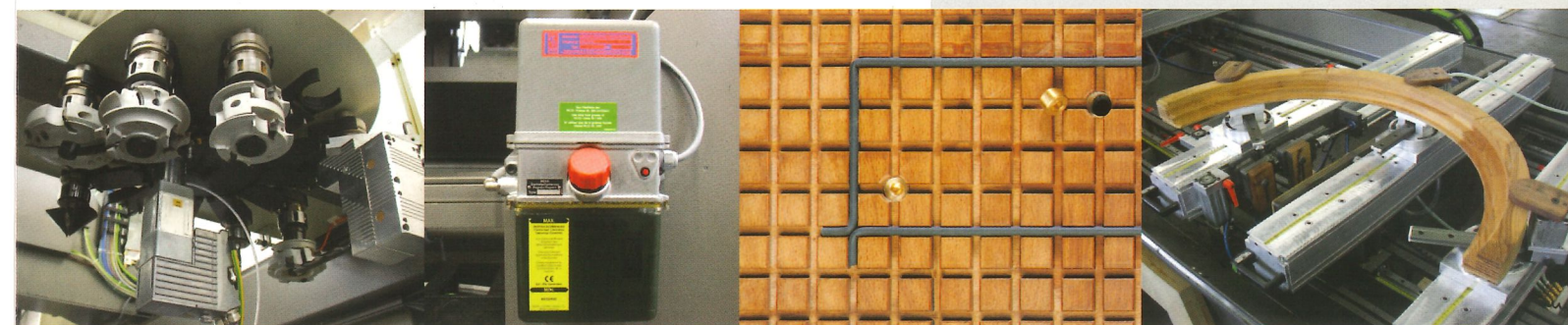
Machining at its highest level



The swivelling range of the cardanic working head allows economical 5-sided machining without the need for additional aggregates. Thus the entire performance of the working spindle is utilised, including horizontal machining.

With a directly clamped saw blade, precise cuts can be carried out in any plane. Saw blades up to 350 mm diameter achieve efficient and powerful sawing.

Control of all machine functions is undertaken by the Siemens 840D controller. The user-friendly control system provides efficient and easy operation. The low-priced version is the Siemens 810D for adapted processes of the 5-axis machining.



The automatic tool changer has a magazine plate for 12 tools. The hollow cone shanks, with their high transferable turning moment, are well suited to high-speed machining. Also, a tool changing system with 24 places is available as an option.

To further enhance its flexibility, the machine can be equipped with a multi-spindle drilling aggregate with a maximum of 14 spindles.

A broad variety of stops, supporting rails and clamping devices are available for the table. For example, the table can include sinkable transport rollers. Sunken pneumatic stops position the workpiece in the longitudinal and transversal direction and long workpieces can exceed the table (right or left).



Technical data

Working aggregate	Performance 15.0 kW, max performance from 10,000rpm Number of revolutions programmable from 1,000 – 24,000rpm Tool fixtures with hollow cone shank HSK 63-F
Cardanic working head	B-axis, swivelling range +/- 180° C-axis, swivelling range +/- 360°
Tool changer	The automatic tool changing system is placed in the gantry. A magazine plate with 12 places is integrated. (Magazine plate with 24 places optional) Tool diameter max 300mm / Saw blades up to 350mm
VISION 1:	
Machine table	Plate table 3,800mm x 1,500mm Gantry passage 320mm (3-/4-axis) Gantry passage 400mm (Sprint/5-axis)
Axis motions	X-axis 3,740mm – max 60m/min Y-axis 1,600mm – max 60m/min Z-axis 480mm – max 20m/min
Conditions for installation	Machine weight approx 7,500kg Dimensions 4,300 x 8,100 x 2,900mm (WxLxH)
VISION 2:	
Machine table	Plate table 6,200mm x 1,500mm Gantry passage 320mm (3-/4-axis) Gantry passage 400mm (Sprint/5-axis)
Axis motions	X-axis 6,140mm – max 60m/min Y-axis 1,600mm – max 60m/min Z-axis 480mm – max 20m/min
Additional equipment	Machine table with beams, vacuum system 250m ³ /h, chip removal belt, special clamping devices, tool identification system, laser projection system, modem for telediagnostic, barcode reader, user software for the graphically supported program generation in stair and furniture production.
Conditions for installation	Machine weight approx 9,500kg Dimensions 4,300 x 10,500 x 2,900mm (WxLxH)
Control	Siemens Sinumerik 810D/840D

Subject to technical changes and further development.

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