

UNIPORT 6000-OG-HV

Top guided portal CNC machining centre



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machine tools

Dynamic 5-axis machining of large components in a fully enclosed machine

Closed machine design for clean and tidy working environment

The UNIPORT6000-OG-HV is a top-guided or high raised gantry CNC machining centre and an ideal choice for multi-sided and full 5-axis manufacturing of large components. Workpiece clamping is less demanding, as the HV machining head compensates for precise alignment, allowing for faster setup times and ultimately delivering higher output.

Benefits

Versatile 5-axis machining

The UNIPORT6000-OG-HV is equipped with an extremely flexible 2-axis nutator head, which, thanks to its design, enables 5-sided machining. The nutator head can be swiveled from vertical to 10° beyond the horizontal plane. This wide range of motion enables precise and complex machining from any angle and orientation, making it ideal for challenging 5-axis tasks across multiple sectors. The machine configuration is ideal for the machining of large welded fabrications and castings or even high speed aluminium cutting.

Generous work area

Despite its compact portal structure, the UNIPORT6000-OG-HV provides an extensive horizontal and vertical workspace, allowing for the processing of very large parts. For easy loading of oversized workpieces, the machine's roof can slide back, allowing direct crane access for overhead loading. This crane-loading capability makes it particularly suitable for industries like energy and transportation, where handling large components is essential.





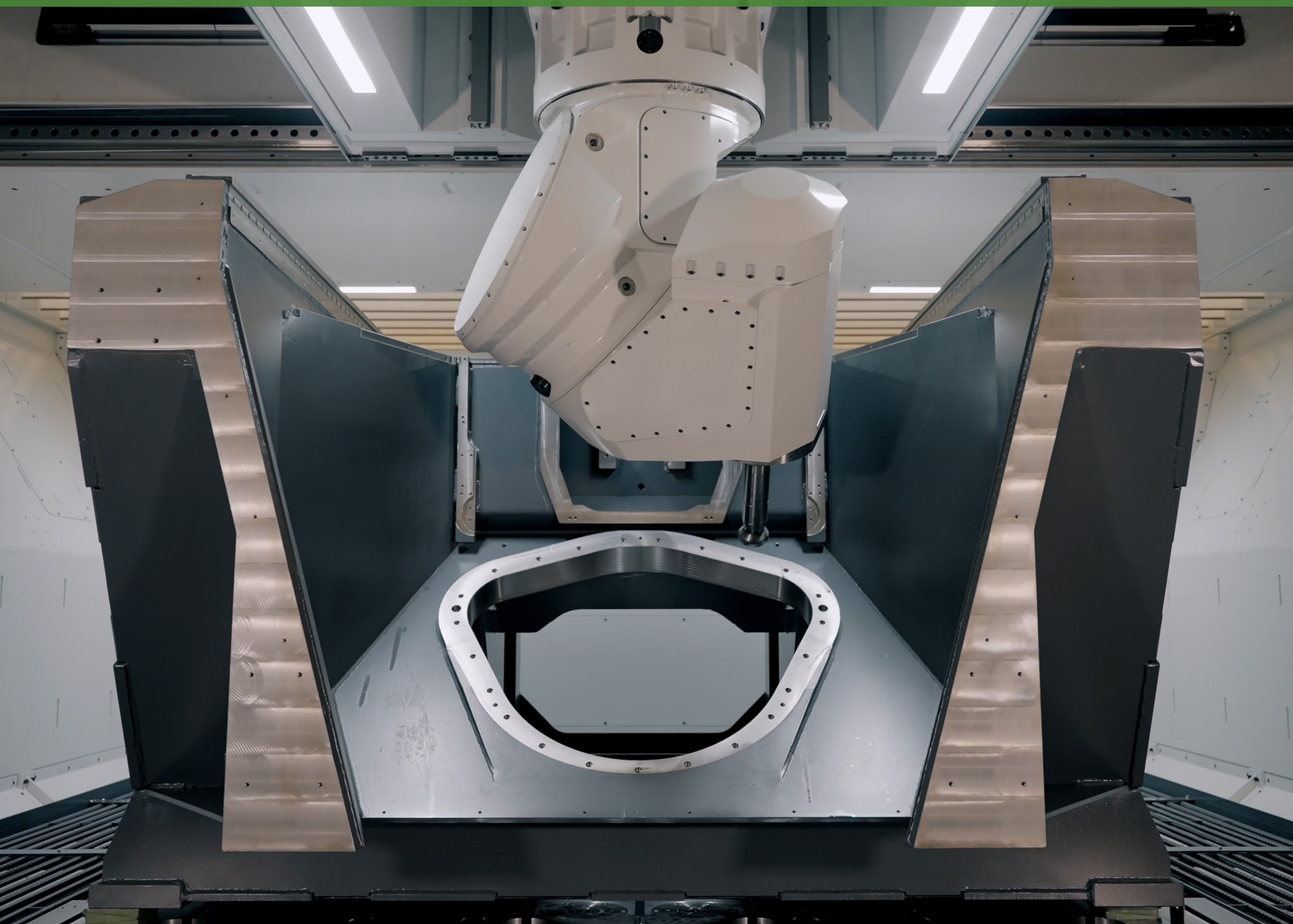
Efficient changeover and optimal visibility

The machine's low table entry height makes

loading and unloading workpieces easy and ergonomic. Large viewing windows and integrated camera monitoring provide operators with clear visibility of machining processes, enhancing control and oversight during operation.

UNISIGN... your partner in productivity!

UNIPOINT 6000-OG-HV; the ideal solution for economical and versatile machining of large components



Technical specifications

The UNIPORT6000-OG-HV machine is usually installed in a foundation pit, to make it more accessible. It is available with a choice of spindle/torque configuration, and two possible interfaces for tooling (HSK-A100 / ISO50).

Work area

X-axis, longitudinal travel	mm	4.000 - 18.000+
Y-axis, cross travel	mm	2.500 - 5.000
Width of clamping table	mm	1.670 -4.170
Vertical clearance portal bridge	mm	2.000
Spindle travel Z-axis	mm	1.800

Spindle

Milling and drilling spindle:

- Integrated water-cooled motor spindle 73 kW
- Maximum spindle speed 7.000 rpm
- Maximum spindle torque 700 Nm

Milling and drilling spindle:

- Integrated water-cooled motor spindle 70 kW
- Maximum spindle speed 15.000 rpm
- Maximum spindle torque 445 Nm

Milling and drilling spindle:

- Integrated water-cooled motor spindle 73 kW / 70 kW
- Maximum spindle speed 7.000 / 15.000 rpm
- Maximum spindle torque 700 / 445 Nm

Various

Tooling

Taper size HSK-A100 / SK50

Number of pockets # 51-174

Tool change time 16 sec

Speed

- Rapid traverse 40.000 mm/min

- Feed Rate 5 - 40.000 mm/min

Accessories

Siemens / Heidenhain

Industries



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