

UNIPOINT 6000-HV

5-axis portal bridge machining centre



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 **unisign**
machine tools

Economical and versatile manufacturing

The UNIPORT 6000-HV (horizontal/vertical) is a truly cost-effective choice for 5-axis machining of large components. In addition to its generous daylight opening, the machine features a tilting nutator head. The spindle can travel through an angle of 100° in both directions, going from a vertical plane to 10° above horizontal for even the most extreme machining angles.

The machine combines 5 axis, flexibility, precision, performance and maximum reliability. That makes it ideal for nearly any machining task and market segment including aerospace, general machining, oil & gas, energy, truck and train. Coupled with outstanding price/performance, this compact portal machine is truly flexible.

2-axis nutator head

The powerful 2-axis nutator head has a host of productivity features that make it an exceptionally versatile machining centre. What sets it apart is the large horizontal and vertical opening for machining extremely large parts on a compact portal machine. This is further enhanced by the point of rotation of the head, which ensures that the full height of the working area is available in both vertical and horizontal orientations.

Able to machine any angle or plane without restriction, the machine with its 2-axis head and cross slide construction is well designed using proven technology. The drive for the continuously variable B-axis and C-axis is cooled to enhance thermal performance and maintain accurate

UNIPORT 6000-HV;
full 5-axis machining
for all types of
materials



5-axis calibrating station

UNIPORT 6000-HV
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Highlights

- Maximum working area; smallest footprint
- Efficient machining of large components
- 5 axis
- High dynamics

Machining of slewing bearing

positioning. The powerful standard spindle with 73 kW, 7.000 rpm and 700 Nm can meet all machining challenges head on. Optional is an 82 kW, 15.000 rpm and 391 Nm for high speed machining. In this case, the machine is configured with raised guide ways and side walls to contain the generously created amount of chips. The dynamic properties of the machine are also outstanding.

Work pieces are easy to change

The UNIPORT 6000-HV is installed into the factory floor. The low step makes getting on to the table extremely easy to change work pieces. The work area is versatile too: the entire area can be used for one large piece, or the two stations can be separated by a screen for pendulum machining.

UNISIGN... your partner in productivity!



The UNIPORT
6000-HV offers
maximum
flexibility;
ideal for large
components



Production of machine base frame



technical specifications

Work area

X-axis, longitudinal travel	mm	4.000 - 24.000+
Y-axis, cross travel	mm	2.500 - 6.000
Z-axis, height travel	mm	1.500 / 1.800
Horizontal clearance	mm	2.000 - 5.500
Vertical clearance	mm	1.700 / 2.000
Distance spindle nose to table (Z-1.800)		
- spindle in vertical position	mm	200 - 2.000
- spindle in horizontal position	mm	190 - 1.950

Main spindle

Power	(S6-40%)	kW	73 / 82
	(S1-100%)	kW	52 / 63
Spindle speed		min ⁻¹	7.000 / 15.000
Spindle torque	(S6-40%)	Nm	700 / 391
C-axis		°	+/- 185
Tilting angle		°	+/- 100

Tool storage

Tool taper	-	HSK100A
Number of pockets	#	37 - 158
Tool change time	s	12

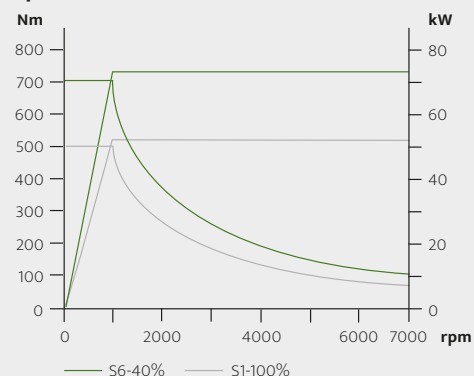
Axis drive and feed system

Rapid / Feed rate	X-, Y-, Z-axis	mm/min	40.000
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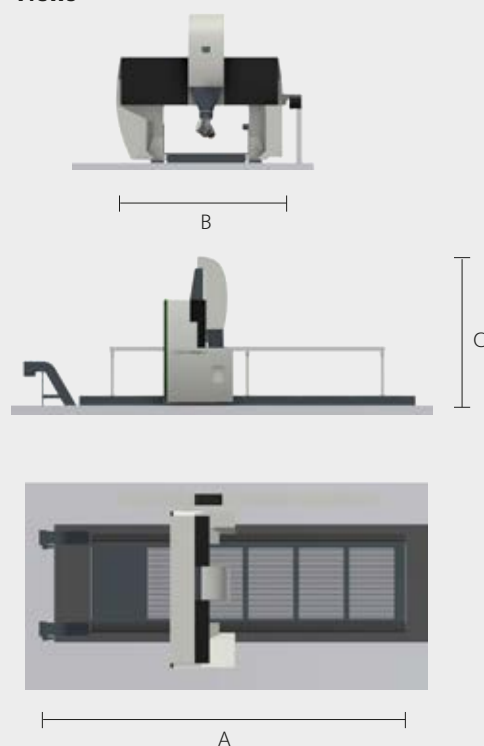
Various and optional

- Powerful main spindle configuration
- Full 5-axis machining
- High speed machining
- Raised guide ways with side walls
- Pendulum machining
- Operator platform
- Work area "vision" system
- Linear scales in all axis
- Measuring probe
- Tool measurement
- Fume extraction
- Integrated chip conveyor
- SIEMENS 840D-sl / Heidenhain iTNC640 control
- TFT 19" colour monitor
- Remote access

Spindle 63 kW



Views



Sizes

X:	4.000 - 24.000+ mm
Y:	2.500 - 6.000 mm
Z:	1.500 / 1.800 mm

Length (A):	X + 6.500 mm
Width (B):	Y + 5.000 mm
Height (C):	5.275 / 5.875 mm


Industries



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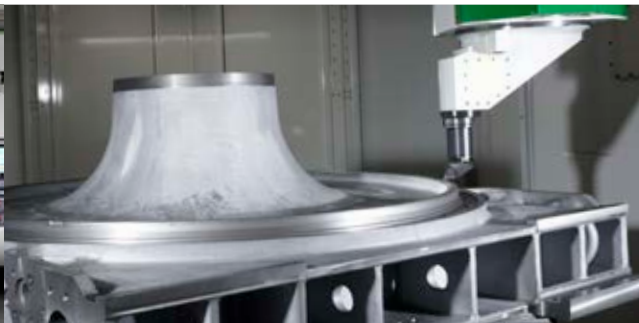

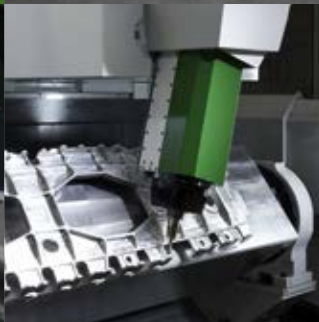
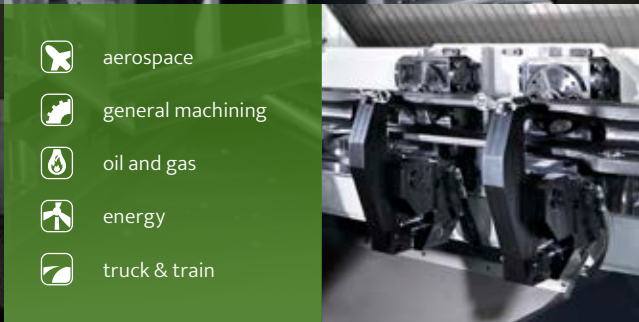





UNISIGN is an engineering company producing innovative and proven machine tool technology for customers in all market segments.

Through years of experience, UNISIGN has evolved into an international operating company with an impressive installed base. The basis of our success is the clear company philosophy to design all the machines in such a way that they can be tailor-made to create the ideal machine for our customers. The large number of machine tools supplied by UNISIGN reflects our strength and versatility.



UNISIGN adds value to our customer production processes.

This makes UNISIGN your partner in productivity.

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- 
-  aerospace
 -  general machining
 -  oil and gas
 -  energy
 -  truck & train

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