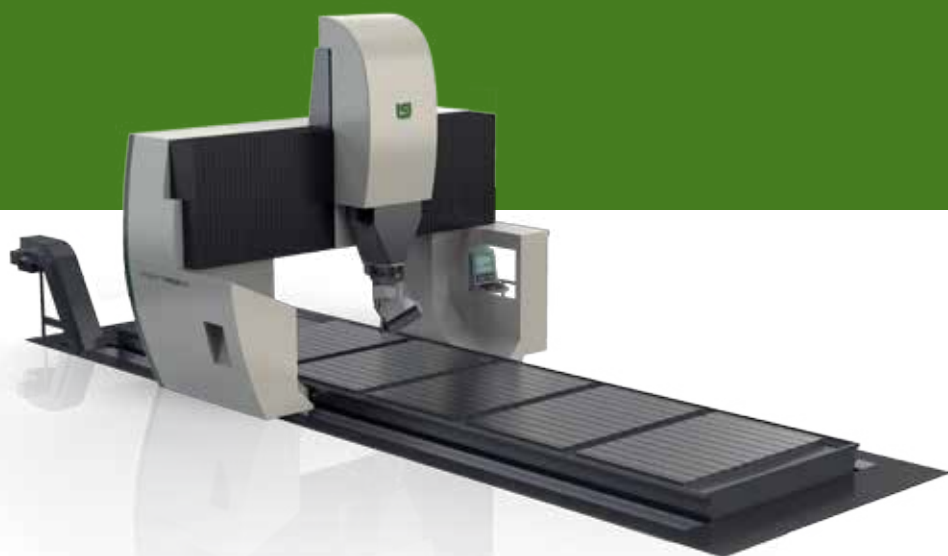




UNIPOINT 6000-HV

5-axis portal bridge machining centre



www.unisign.com

 **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.

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



5-axis calibrating station

UNIPORT 6000-HV
www.unisign.com





Highlights

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

Machining of slewing bearing

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 positioning. The powerful high speed motor spindle and rapid traverse give it outstanding dynamic properties.

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-1.500) | | |
| - spindle in vertical position | mm | 200 - 1.700 |
| - spindle in horizontal position | mm | 150 - 1.650 |

Main spindle

| | | | |
|----------------|-----------|-------------------|---------|
| Power | (S6-40%) | kW | 63 |
| | (S1-100%) | kW | 50 |
| Spindle speed | | min ⁻¹ | 8.000 |
| Spindle torque | | Nm | 550 |
| C-axis | | ° | +/- 185 |
| Tilting angle | | ° | +/- 100 |

Tool storage

| | | |
|-------------------|---|----------|
| Tool taper | - | HSK100A |
| Number of pockets | # | 38 - 159 |
| Tool change time | s | 12 |

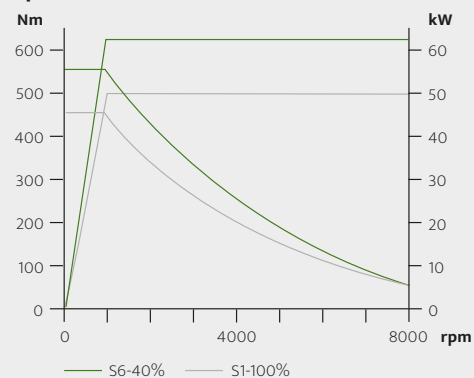
Axis drive and feed system

| | | | |
|-------------------|----------------|--------|--------|
| Rapid / Feed rate | X-, Y-, Z-axis | mm/min | 40.000 |
|-------------------|----------------|--------|--------|

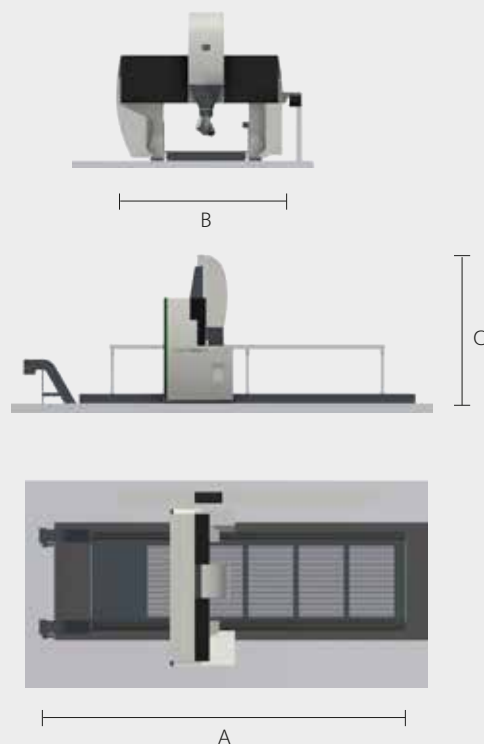
Various and optional

- Powerful main spindle configuration
- Full 5-axis machining
- 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 iTNC530 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 + 7.000 mm |
| Width (B): | Y + 4.400 mm |
| Height (C): | 5.650 / 6.250 mm |


Industries



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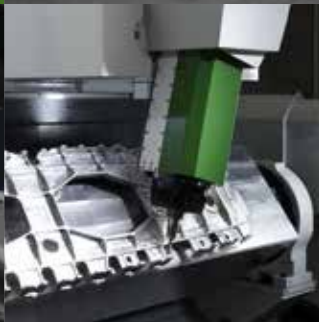
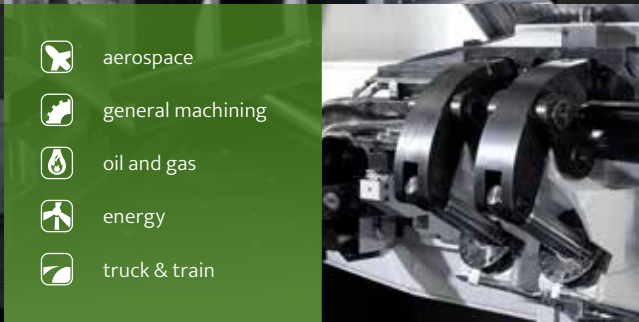





UNISIGN is an engineering company producing innovative and proven machine tool technology for customers in all market segments.

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.

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

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