



UNIVERS6000

Moving column machining centre



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 **unisign**
machine tools

Economical and flexible manufacturing

The UNIVERS 6000 combines powerful multi-sided machining with high dynamics, accuracy and flexibility. The machine is particularly suited for producing big and especially long work pieces like beams and traverses, axles and trailer side members. It can be customized to meet specific requirements, and is ideal for market segments like general machining, oil & gas, truck, train, and energy.

Even when machining heavy work pieces up to 8 metres long, the compact UNIVERS 6000 combines excellent performance and high accuracy with a large work envelope. The vertical main spindle of this travelling column machine is gearbox driven, delivering high power and high torque. This mills toughened materials and accepts large tool diameters.

Multi-sided machining for flexible production

The unique UNISIGN right angle head allows for multi-sided machining to increase production flexibility. The rugged design allows it to be used with the same power and torque as the main spindle. The right angular head is stored in a designated pick-up station at one end of the working area. The large working area can be divided into two work zones for pendulum machining. Machining on one side while setting up a new part on the other ensures maximum uptime. The machine can also be used in one large work zone by taking out the separation screen.

Easy to customise

The UNIVERS 6000 is a powerful multi-operation machining centre with a large work envelope. It can also be used as the basic platform for a variety of customer specific solutions. Usability is enhanced by rotary and clamping tables that are available in various sizes and able to handle different loads. The choice of dedicated operation or product specific fixtures makes it the perfect machine.

Excellent accuracy

Several design aspects contribute to the machine's accuracy. It features precise machine geometry, with a short distance

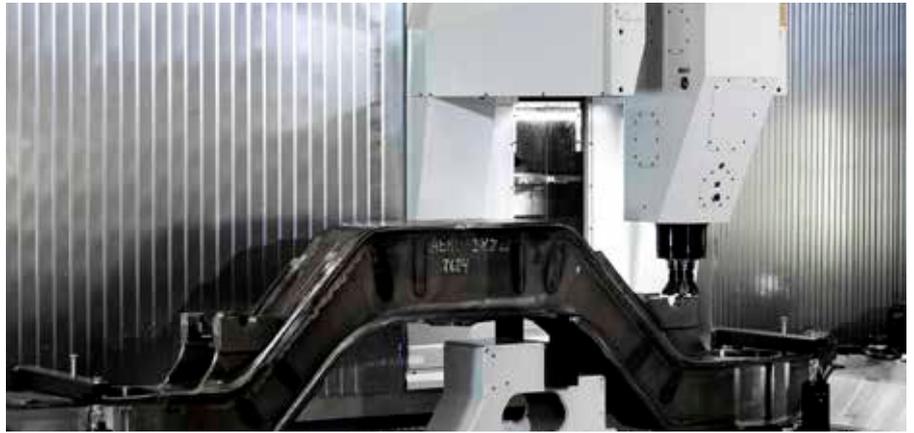
UNIVERS 6000;
Extreme power
in a compact
machine



Powerful main spindle

UNIVERS 6000
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between the spindle centre line and the Z-axis guide ways for high rigidity. The water cooled main drive ensures thermal stability, and the rigid build means repeatable production of complex work pieces. Operators and work preparers can be confident that parts will always be manufactured within drawing tolerances.

Work area with automatic doors

The UNIVERS 6000 is easily installed and can be up and running very quickly. The fully enclosed working area has automatic doors, with excellent visibility of the machining processes that give the operator an ideal and ergonomic work station. Remote machine monitoring from UNISIGN's own

service centre ensure high up-time and a good return on investment.

UNISIGN... your partner in productivity!

The UNIVERS 6000 can be customised for any application.





Highlights

- Very powerful main spindle
- Pendulum machining offers great up-time
- Multi-sided machining with the Unisign right angle head
- Operator friendly machine

Flexible work area with pendulum machining

technical specifications

Work area

X-axis	mm	3.000 - 8.000
Y-axis	mm	825 / 1.000
Z-axis	mm	600
Distance spindle nose to table	mm	200 - 800

Main spindle

Power	kW	26,5 / 36
Spindle speed	min ⁻¹	6.000
Spindle torque	Nm	650 / 1.000

Tool storage

Tool taper	-	HSK100A / ISO50
Number of tool pockets	#	52 - 132
Tool change time	s	9

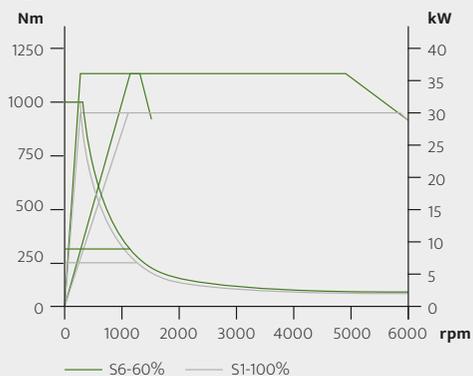
Axis drive- and feed system

Rapid / Feed rate	X-, Y-, Z-axis	mm/min	32.000
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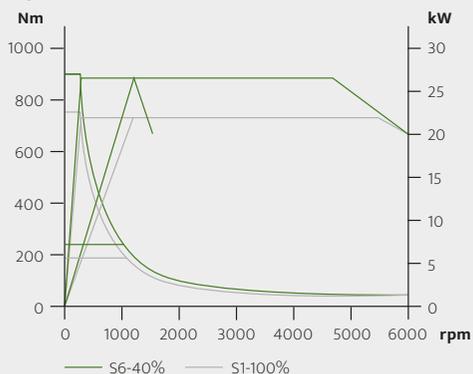
Various and optional

- Fully enclosed working environment
- Automatic doors
- Spindle with two-stage gearbox
- Pendulum machining
- Right angular head
- NC tables
- Measuring probe
- High accuracy
- Tool monitoring system
- High pressure coolant
- Integrated chip conveyor
- Automatic central lubrication with function control
- Machine painting in RAL 7035/7024 light grey / medium grey
- SIEMENS 840D-sl / Heidenhain iTNC530
- TFT 19" colour monitor
- Remote access

Spindle 36 kW



Spindle 26,5 kW



Views



Sizes

X-axis:	3.000 - 8.000 mm
Y-axis:	825 / 1.000 mm
Z-axis:	600 mm

Length (A):	6.700 - 13.100 mm
Width (B):	5.000 mm
Height (C):	3.950 mm

Industries



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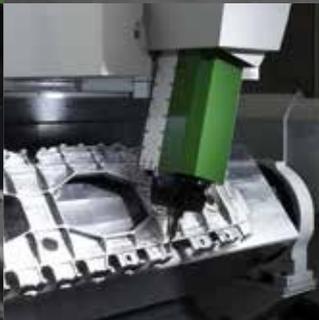
UNISIGN is an engineering company producing innovative and proven machine tool technology for customers in all market segments.

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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