



UNIPRO5L

High speed machining centre



www.unisign.com

 **unisign**
machine tools

Economical and versatile manufacturing

The UNIPRO 5L is a high speed 3, 4 and 5-axis vertical machine combining fast and powerful machining with the highest accuracies. It suits a range of sectors including aerospace, general machining, energy and railway.

Large variety in spindles

A powerful 36 kW and 12.000 rpm spindle is standard, with optionally a 58 kW and 16.000 rpm spindle. For high speed aluminium cutting, UNISIGN can offer its revolutionary 100 kW or 25.000 rpm. This spindle can remove over 10.000 cm³ per minute. All the spindles use UNISIGN's proven design. Together with its large working area, this makes the UNIPRO 5L a versatile high speed machine.

The UNIPRO 5L has a lightweight travelling column. The machine design has half the weight but double the stiffness of traditional travelling column machining centres. Further weight reduction comes from removing the tool storage from the travelling column and relocating it to a fixed position on the base frame.

The UNIPRO 5L can be supplied in various sizes for machining long components. The larger versions have the option to divide the work area in two for pendulum machining and highest up-time.

Flexibility in clamping

The front face of the machine base incorporates a 45° clamping face. Standard clamping tables can be assembled onto it, or NC indexers can be designated as 4th and 5th axis. This, together with clamping cradles, adds to the versatility. The front face also allows easy chip and coolant flow into the chip conveyor located underneath the work area.

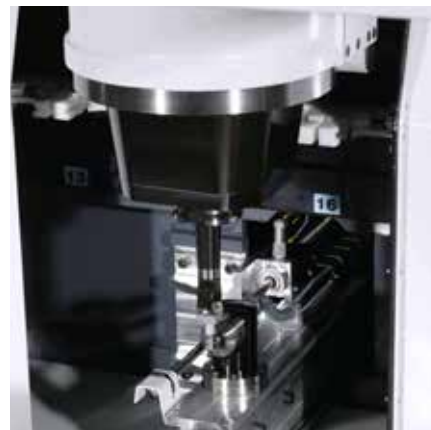
UNIPRO 5L;
the versatile high
speed machine!



Special machining head

UNIPRO 5L
www.unisign.com





The large tool magazine is located halfway along the X-axis travel (Y-600 mm) or at the far end of the X-axis travel (Y-800 mm). The number of tools can also be increased with additional storage at the rear of the machine.

extraction. It can be customised, making it a versatile production asset with fast cycle times and quick return on investment.

The UNIPRO 5L is fully enclosed for safe operation and there is optional fume

UNISIGN... your partner in productivity!

UNIPRO 5L; powerful high speed 3, 4 or 5-axis vertical machining capabilities





Pendulum machining



Highlights

- Successful with highest accuracy requirements
- Light weight travelling column to ensure high dynamics
- The work envelope allows machining of long components
- Versatile machine configurations in size and functionality
- Proven spindle design

technical specifications

Work area

X-axis	mm	2.000 / 6.000
Y-axis	mm	600 / 800
Z-axis	mm	500

Main spindle, direct driven

Power	kW	36 / 58 / 100
Spindle speed	min ⁻¹	12.000 / 16.000 / 25.000
Spindle torque	Nm	180 / 135 / 90

Tool storage

Tool taper	-	HSK63A / ISO40
Number of tool pockets	Y-600	# 79 / 179
	Y-800	# 57 / 157
Tool change time	s	5

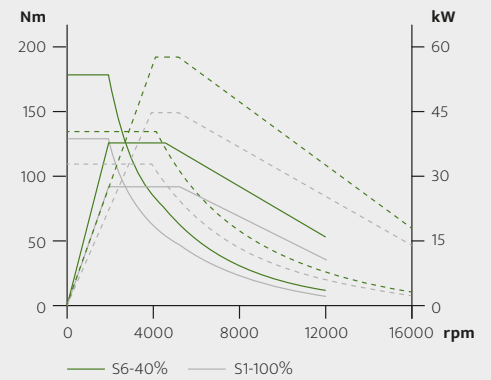
Axis drive- and feed system

Rapid / Feed rate	X-, Y-, Z-axis	mm/min	60.000
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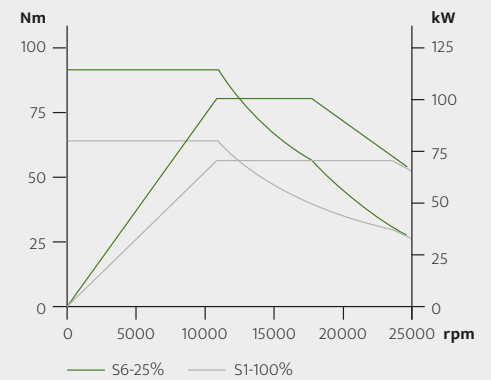
Various and optional

- 3, 4 or 5-axis configuration
- High speed machining
- Powerful main spindles
- Large tool storage
- Internal coolant supply
- Linear scales in all axis
- Fully enclosed work area
- Fume and mist extraction
- Flexible clamping concept for tables in various configurations
- NC indexers in various sizes with tailstock
- Measuring probe
- Siemens or Heidenhain control
- Automatic recovery cycles
- Remote access

Spindle 36 & 58 kW



Spindle 100 kW



Views



Sizes

Length (A):	X-axis + 4.000 mm
Width (B):	4.200 mm
Height (C):	3.800 mm


Industries



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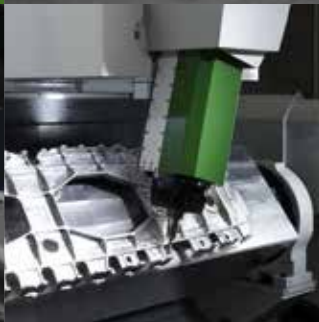
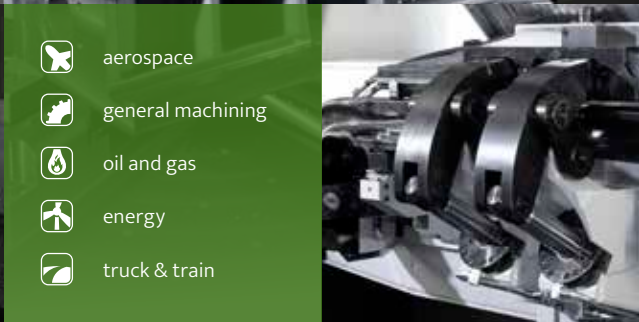





UNISIGN is an engineering company producing innovative and proven machine tool technology for customers in all market segments.

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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