

# technical specifications

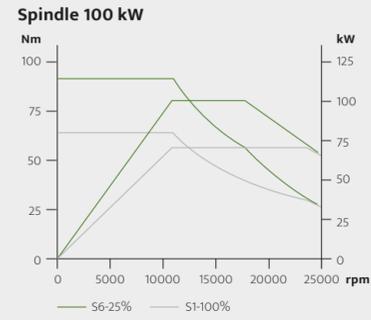
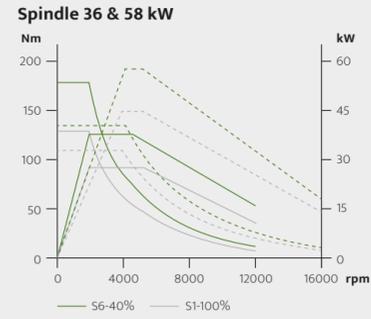
Work area			
X-axis	mm	2.000 / 6.000	
Y-axis	mm	600 / 800	
Z-axis	mm	500	

Main spindle, direct driven			
Power	kW	36 / 58 / 100	
Spindle speed	min <sup>-1</sup>	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

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



#### Views



#### Sizes

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

#### Industries



## your partner in productivity

**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



# UNIPRO5L

High speed machining centre



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# 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 cm<sup>3</sup> 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

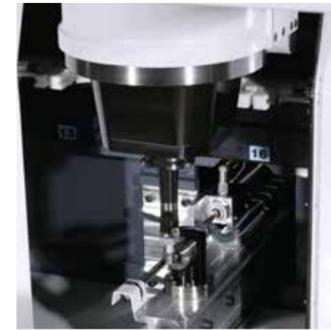
The front face of the machine base incorporates a 45° clamping face. Standard clamping tables can be assembled onto it, or NC indexers can be designated as 4<sup>th</sup> and 5<sup>th</sup> axis. This, together with clamping cradles, adds to the versatility. The front face also allows easy chip and coolant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

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.

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

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

*UNISIGN... your partner in productivity!*



Pendulum machining

UNIPRO 5L;  
the versatile high  
speed machine!



Special machining head

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



## 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

UNIPRO 5L  
[www.unisign.com](http://www.unisign.com)

