

# technical specifications

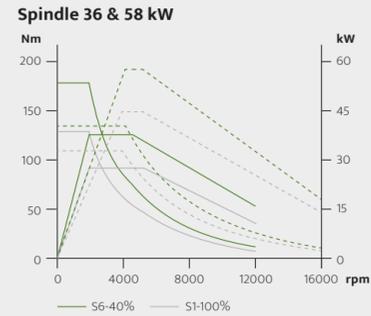
Work area			
X-axis, longitudinal travel	mm	2.000 - 24.000+	
Y-axis, cross travel	mm	1.000 - 3.500	
Z-axis, height travel	mm	500	
Horizontal clearance	mm	1.050 - 3.550	
Vertical clearance	mm	610	

Main spindle, direct driven			
Power	(S6-40%)	kW	36 / 58
	(S1-100%)	kW	26 / 45
Spindle speed		min <sup>-1</sup>	12.000 / 16.000
Spindle torque		Nm	180 / 135

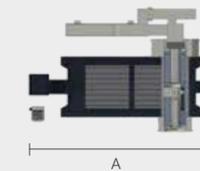
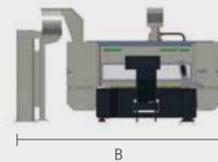
Tool storage			
Tool taper	-		HSK63A / ISO40
Number of tool pockets	#		39 / 78
Tool change time	s		8

Axis drive and feed system			
Rapid / Feed rate	X-, Y-, Z-axis	mm/min	40.000

- Various and optional**
- Powerful water cooled direct driven spindle
  - Optional 16.000 min<sup>-1</sup>
  - Double sided synchronised X-axis drive
  - One large work area or pendulum machining
  - Large tool storage with 39 or 78 tool pockets
  - Safety panels on front and rear of portal bridge
  - Linear scales in all axis
  - Measuring probe
  - Siemens or Heidenhain control
  - Remote access



## Views



## Sizes

X:	2.000 - 24.000+ mm
Y:	1.000 - 3.500 mm
Z:	500 mm

Length (A):	X-axis + 4.800 mm
Width (B):	Y-axis + 3.700 mm
Height (C):	3.200 mm

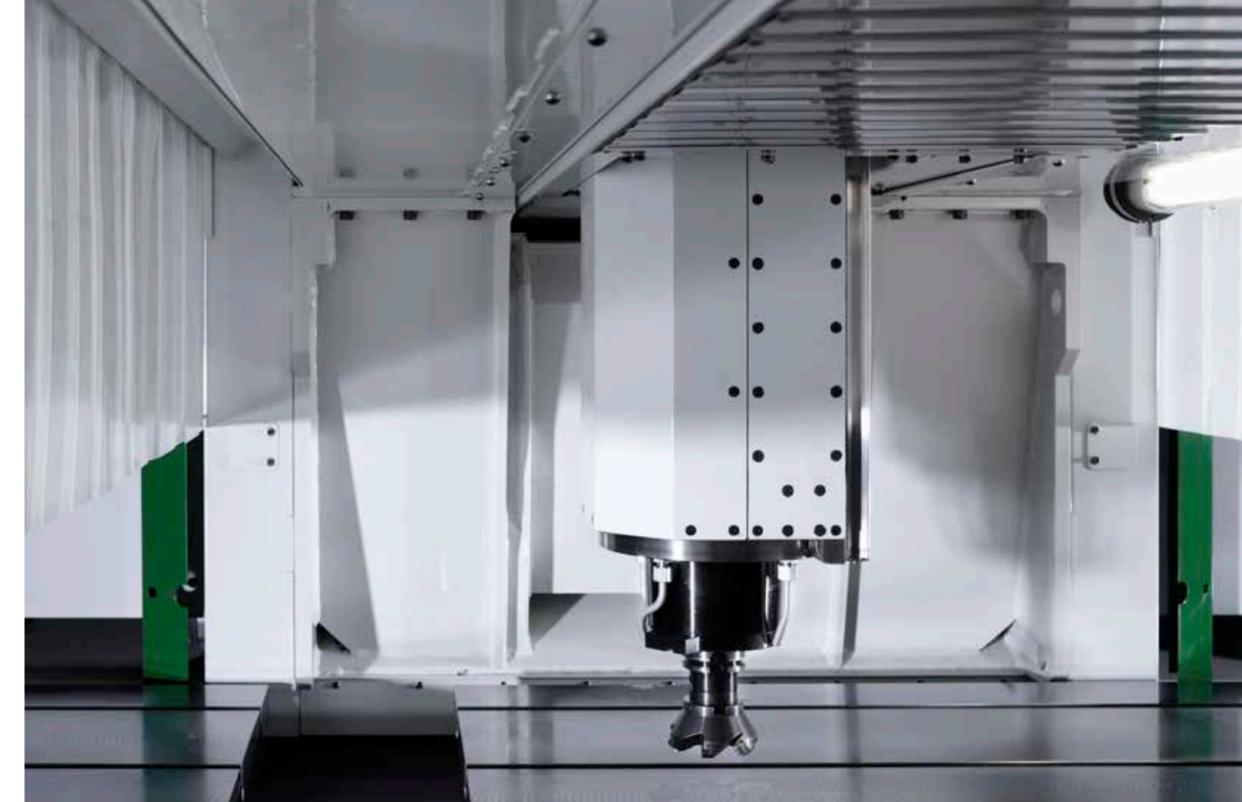
## Industries



# 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.



# UNIPORT4000

Travelling bridge machining centre



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# Economical and versatile manufacturing



The UNIPORT 4000 offers excellent value for money

**The small-footprint UNIPORT 4000 is a travelling-bridge portal machine. Flexibility, speed, power, precision, reliability and serviceability are the key features. It is ideal for producing large, flat components for general machining, truck & train, aerospace, energy and a range of other sectors. The machine is versatile, reliable and easy to service.**

This compact travelling bridge CNC machining centre has a stationary bed and a movable bridge. The X-axis is driven by two electronically synchronised drive units. The rigid construction and double cross rail of the Y-axis ensure high stability. The large X- and Y-axis travels make the machine ideal for producing large, relatively flat components. The design is flexible, allowing customer-defined features like vacuum or magnetic fixtures. There is excellent access for loading and unloading.

#### Two individual work zones

The X-axis can be divided into two individual work zones for pendulum machining. That adds to the versatility, with one zone machining continuously while the other is loaded, resulting in the highest up-time. The direct driven water cooled main spindle develops 36 kW and 12.000 rpm and can machine a whole range of materials. An optional 58 kW and 16.000 rpm spindle performs high speed aluminium cutting. The machine's open bed design provides excellent chip flow as well as good visibility for monitoring the process.

#### Automatic tool change

Automatic tool changes from the 39-pocket chain type store are standard. Tools are stored in the travelling column, with another 39 optional pockets around the opposite travelling column. Splash guards cover

the work area while using high pressure coolant through the spindle. Tool measuring, measuring probe and many other options are available.

The UNIPORT 4000 combines powerful machining and high dynamics with a rigid

and flexible design, making it an ideal addition to nearly all production facilities.

*UNISIGN... your partner in productivity!*

Safety panels on front and rear side of portal bridge



Measuring probe

UNIPORT 4000  
www.unisign.com



The UNIPORT 4000 can be easily adapted to any customer specific requirement



#### Highlights

- High dynamic travelling bridge type machining centre
- Portal bridge with symmetrical double beam construction
- Closed loop cooling system for main spindle
- Double sided synchronized X-axis drive
- Pendulum machining