

# UNIPORT6000

Portal bridge machining centre



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 **unisign**  
machine tools

# Economical and versatile manufacturing

**The gantry configuration with travelling bridge and stationary table makes the UNIPORT 6000 a highly versatile machining platform with many manufacturing applications. We can always supply the ideal machine size by increasing the length, width and height, so adapting the machine to almost any manufacturing task. This advanced machine is fast, versatile, precise, reliable and easy to service. It performs milling, drilling, tapping, turning and even grinding – all in a single, small footprint machine. It is ideal for a whole range of applications like general machining, oil & gas, truck & train and energy sectors.**

## **Powerful gearbox driven spindle**

The UNIPORT 6000 incorporates a powerful gearbox driven spindle for high performance. Combined with the optional UNISIGN right angle and universal head, it is the ideal production machine for large, multi-sided components.

The various machining heads are stored in a pick-up station in one of the columns, and they change tools automatically. Tools are stored in the moving portal bridge, always ensuring the shortest tool change times.

## **Carousel turning station**

The ability to integrate a powerful carousel turning station in the machine puts the UNIPORT 6000 in a class apart. For turning operations, a turning tool adapter is automatically attached to the spindle nose of the ram. This ensures that the cutting forces are channelled directly to the ram, and do not impact the spindle bearings for longer spindle life time.

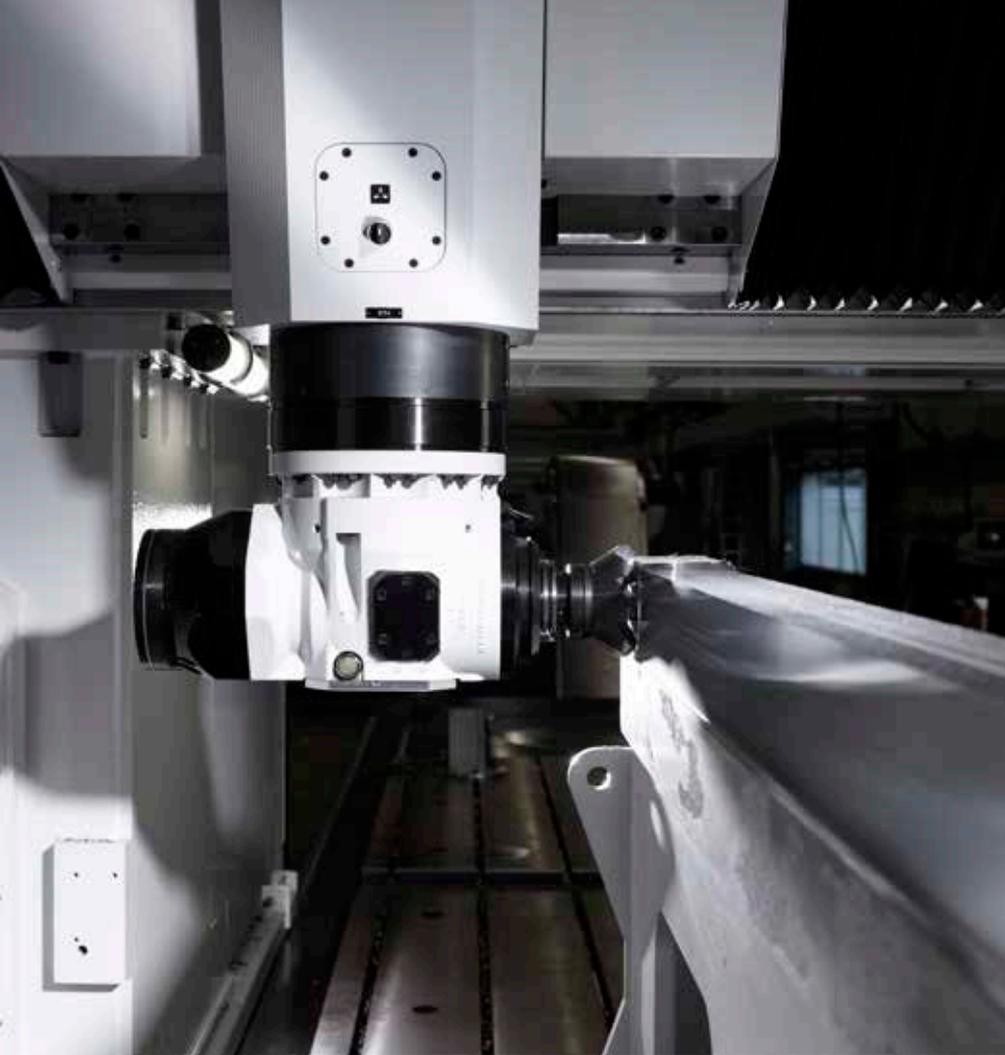
UNIPORT 6000;  
also available in  
moving table  
configuration



Powerful main spindle

UNIPORT 6000  
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## Highlights

- Maximum working area; smallest footprint
- Efficient machining of large components
- Multisided machining
- High dynamics
- Carousel turning station

UNISIGN right angle head

### Great flexibility

When the UNIPORT 6000 is built into a factory, operators can easily step onto the table to change clamps and work pieces. The work area is flexible too; the entire area can be used for one large piece, or two stations can be separated by a screen for

pendulum machining. The machine is also available in a moving table configuration, either with one pallet or with a multiple pallet changer.

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The UNIPORT 6000 offers maximum flexibility;  
ideal for large components



Mill-tun solution via integrated carousel  
turning station

# technical specifications

## Work area

X-axis, longitudinal travel	mm	4.000 - 24.000+
Y-axis, cross travel	mm	1.500 - 5.000
Z-axis, height travel	mm	1.000 / 1.250
Horizontal clearance	mm	1.500 - 5.000
Vertical clearance	mm	1.300 / 1.550

## Main spindle, gearbox driven

Power	(S6-40%)	kW	36 / 54
	(S1-100%)	kW	26 / 39
Spindle speed		min <sup>-1</sup>	6.000
Spindle torque		Nm	720 / 1.000

## Tool storage

Tool taper	HSK100A / ISO50 / Capto C8
Number of tool pockets	# 28 - 214
Tool change time	s 10

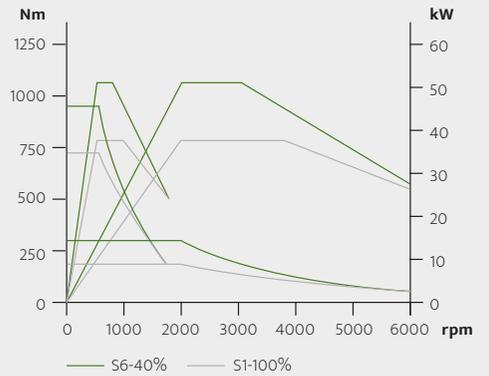
## Axis drive and feed system

Rapid / Feed rate	X-axis	mm/min	36.000
	Y-, Z-axis	mm/min	30.000

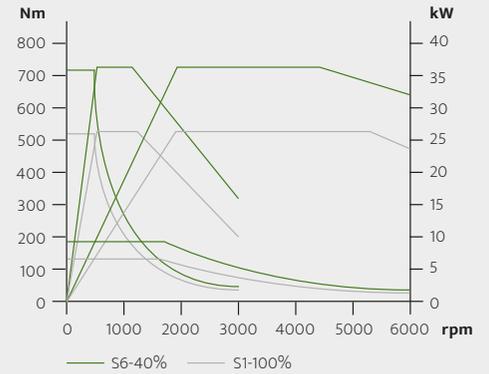
## Various and optional

- Also as pallet changer or single table configuration
- Water cooled main spindle with 2-stage gearbox
- UNISIGN Right angular head
- UNISIGN Universal head
- Carousel turning station
- Linear scales
- Pendulum machining
- Safety fence
- Camera system with monitor
- Measuring probe
- High pressure coolant
- Tool measurement
- Integrated chip conveyor
- SIEMENS 840D-sl / Heidenhain iTNC530 control
- TFT 19" colour monitor
- Remote access

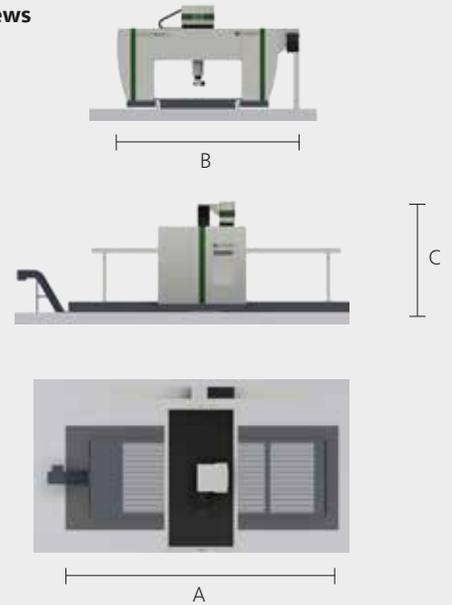
## Spindle 54 kW



## Spindle 36 kW



## Views



## Sizes

X:	4.000 - 24.000+ mm
Y:	1.500 - 5.000 mm
Z:	1.000 / 1.250 mm

Length (A):	X-axis + 5.000 mm
Width (B):	Y-axis + 4.150 mm
Height (C):	4.455 / 4.950 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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