

technical specifications

Work area			
X-axis, cross travel	mm		1.950
Y-axis, table travel	mm		1.425
Z-axis, height travel	mm		1.000
Vertical clearance	mm		1.300 / 1.450
Pallet sizes	ø mm		1.250 / 1.600 / 1.800
Swing circle	ø mm		2.000

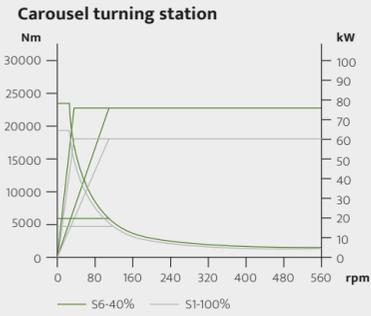
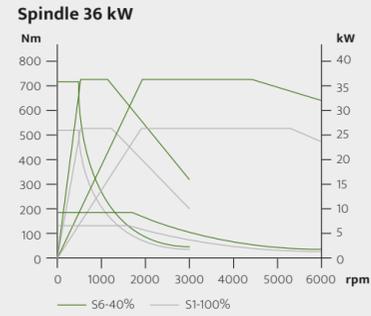
Main spindle, gearbox driven			
Power	(S6-40%)	kW	36 / 54
	(S1-100%)	kW	26 / 39
Spindle speed		min ⁻¹	6.000
Spindle torque		Nm	720 / 1.000

Carousel turning station			
Power	kW		70 / 95
Maximum torque	Nm		25.000 / 38.000
Maximum speed (depending on pallet size)	min ⁻¹		300 - 450

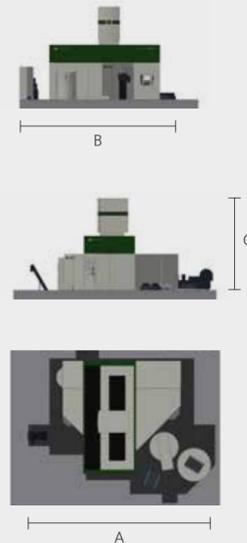
Tool storage			
Tool taper	-		Capto C8 / HSK100A
Number of tool pockets	#		97 - 200
Tool change time	s		10

Axis drive and feed system			
Rapid / Feed rate	X-, Y-, Z-axis	mm/min	30.000

- Various and optional**
- Turning tool adapters; vertical and horizontal
 - UNISIGN right angle head
 - UNISIGN universal head
 - Customer specific machining heads
 - Pickup station for 6 machining heads
 - Increased capacity of carousel turning station
 - Pallet changer with increased number of pallets
 - Measuring unit for pallet loading
 - Vacuum cleaning unit at loading station
 - Linear scales in all axis
 - In-process measuring probe on separate slide
 - Fully enclosed working area
 - SIEMENS 840D-sl with Operate interface
 - Cycles for balancing, grooving and conical turning
 - Work area vision system
 - Remote access



Views



Sizes

Length (A): 10.000 mm
 Width (B): 8.500 mm
 Height (C): 5.000 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

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UNICOM 6000

Large mill-turn machining centre



www.unisign.com



Economical and versatile manufacturing

The UNICOM 6000 is a large mill-turn machining centre with pallet changer for a wide range of applications. It can manufacture large components like pumps and valves, turbo chargers, and jet engine and turbine parts.

The mill-turn process increases productivity by combining various operations in one machine. It does this without compromising quality and without reducing the speed of individual processes.

Stable and accurate machining

The design is based on the proven vertical ram configuration of the 6000 series. The various heads guarantee stable and highly accurate machining. For turning operations, the machine picks up a dedicated head which ensures that none of the cutting forces are loaded on the bearing, giving a longer spindle life time. The UNICOM 6000 has a moving ram that can plunge inside components. All the internal turning, milling and drilling operations can be done with short tools, increasing the speed, accuracy and stability of the machine.

The excellent stability means the carousel turning station can perform heavy cutting with powers to above 75 kW and torques over 25.000 Nm. It can also be used as a high precision C-axis.

The proven UNISIGN right-angle head performs horizontal machining. This head has the same power, torque and speed as the main spindle. Components with inclined surfaces can simply be handled by adding the UNISIGN universal head, which can be indexed in the B- & C-axis.

Powerful turning

Versatile machine configuration

The UNICOM 6000 has many features adding to flexibility and productivity. The standard pallet changer allows new work pieces to be loaded during machining. The loading station is located near to the control panel, which makes for comfortable and easy parts loading and machine operation. The machine takes different pallet sizes for parts with a range of diameters. The maximum speed of the turning station is automatically adapted to the pallet size. Tools, machining heads and pallets all are changed automatically.

If any process is interrupted the UNICOM 6000 by default runs "recovery cycles" that bring the machine back into a controlled situation. There is a single tooling system for the turning and milling operations. And for safety, the cabin is fully enclosed with an unrestricted view of the machining processes.

The UNICOM 6000 offers advanced, extremely powerful and complete machining that combines cost-effective performance, accuracy and reliability.

Highlights

- Powerful turning AND milling
- No compromise in performance, flexibility or accuracy
- Great reduction of lead times
- Various pallet sizes and configurations in one machine
- Great ergonomics and full enclosure guarding

The UNICOM 6000 offers a highly modern mill-turn concept, combining productivity, reliability, flexibility and accuracy

Pallet loading station with centring device

UNICOM 6000
www.unisign.com



Automatic head changer

UNICOM 6000;
Complete machining without compromises

