

technical specifications

Work area			
X-axis, cross travel	mm	2.675 / 3.450 / 5.000	
Y-axis, table travel	mm	2.300 / 2.500 / 4.000	
Z-axis, height travel	mm	1.600	
Vertical clearance	mm	2.000 / 2.300	
Pallet sizes	ø mm	1.250 - 4.000	
Swing circle	ø mm	2.000 - 4.500	

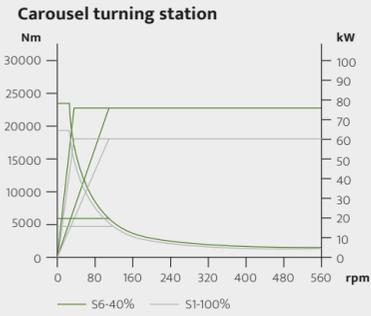
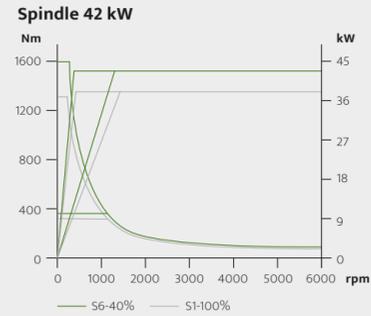
Main and horizontal spindle			
Power	(S6-40%)	kW	42
	(S1-100%)	kW	37
Spindle speed		min ⁻¹	6.000
Spindle torque		Nm	1.600

Carousel turning station			
Power	kW	70 / 95	
Maximum torque	Nm	70.000	
Maximum speed (depending on pallet size)	min ⁻¹	125 - 450	

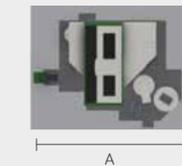
Tool storage			
Tool taper	-	Capto C8 / HSK100A	
Number of tool pockets	#	78 - 200	
Tool change time	s	10	

Axis drive and feed system			
Rapid / Feed rate	X-, Z-axis	mm/min	40.000
	Y-axis	mm/min	30.000

- Various and optional**
- Turning tool adapters, vertical and horizontal
 - Extended main spindle
 - UNISIGN universal spindle
 - 5-axis spindle variations
 - Compact right angular head
 - Various customer specific 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	Standard	XL	XXL
Length (A):	12.000 mm	18.000	23.000
Width (B):	9.500 mm	11.500	16.000
Height (C):	6.300 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

Industrieterrein 36 (nr. 930)
P.O. Box 7047, NL-5980 AA Panningen
The Netherlands

Tel.: +31 (0)77 307 37 77
Fax: +31 (0)77 307 54 36
sales@unisign.com

www.unisign.com



UNICOM7000

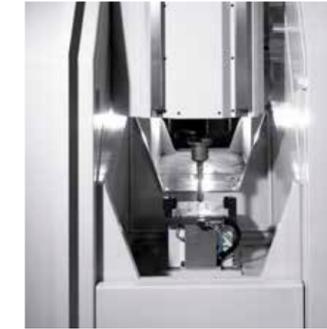
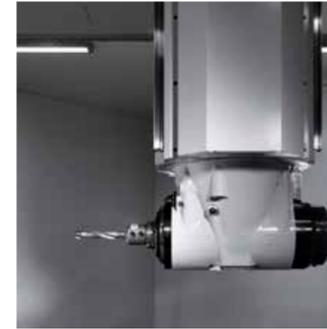
Large multitasking machining centre



www.unisign.com



Economical and versatile manufacturing



UNICOM 7000;
Complete machining without compromise

Large capacity and clearance in the working envelope increases the productivity of UNICOM 7000 for large components like pumps and valves, turbochargers, jet engines, drive parts, and planetary gear carriers. The standard machine configuration includes a vertical carousel station and pallet changer. With fewer setups and shorter lead times, this extremely accurate machine delivers high output manufacturing for big work pieces.

Head changer exchanges spindles
Today, even large components need ever-shorter lead times. The UNICOM 7000 is our most adaptable and functional multitasking machine, delivering high output without sacrificing quality. Its head changer physically exchanges various spindles. The machine has a main vertical spindle, horizontal spindle and turning tool adapter with complementary heads. Those include different types of turning tool adaptors, extended spindle or even 5-axis configurations. A range of machining spindles guarantees stable and highly accurate machining. Picking up a dedicated head for turning operations ensures that none of the cutting forces are loaded on the bearing, so extending spindle life time.

Unique ram with turning tool adapter
A unique UNICOM feature is the machine's ram with turning tool adapter. This design can plunge into the part using short, stable tools. Together with the in-process measuring probe, this ensures reliable and accurate processing. The excellent stability of the machine ensures heavy cutting with the maximum power and torque of the carousel turning station (which also works as a high precision C-axis).

Taking load off your mind
The pallet loading station is located close to the operator platform and does not restrict operator access to the machine. A transfer unit delivers the pallet from the loading station into the machine via an automatic sliding door in the rear guarding section. New components can be aligned during

loading, which eliminates time consuming measuring inside the machine. For convenience, there is just one tooling system in the whole machine both for turning and milling operations. And for safety, the fully enclosed cabin gives unrestricted view of the machining processes.

Few set-ups, a large variety of machining operations in a single machine and the latest machine tool technology make the UNICOM 7000 suitable for a wide range of applications.

UNISIGN... your partner in productivity!

Pallet loading station with centring device



In-process measuring probe

UNICOM 7000
www.unisign.com



Automatic head changer

Highlights

- Powerful turning AND milling
- Significantly reduced production times
- Plunging inside components with short turning tools
- Various pallet sizes and configurations
- High accuracy in positioning, repeatability, geometrics and thermal stability

The UNICOM 7000 offers state-of-the-art milling and turning for high productivity, reliability, versatility and accuracy.

