

TECHNICAL DATASHEET

CNC - Vertical - Machining Centre

manufacturer	UNISIGN
type	UNIVERS 6
control	SIEMENS 840 D
built	2006



Working area		
Size Clamping table 1	850 x 1.500	mm
Size Clamping table 2	850 x 1.200	mm
Table load max.	1.000	kg
Tables height-adjustable 3 x 65 mm		
Travels		
X-axis (longitudinal)	3 000	mm

X-axis (longitudinal)	3.000	mm
Y-axis (lateral)	800	mm
Z-axis (vertical)	600	mm

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high quality machine tools



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9871 Form A
fold bearing
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CNC-control

SIEMENS SINUMERIK 840 D

Combined with digital drive control, hard disk storage, 15" TFT – color screen,

1 Gbyte hard disc, external machine control panel, QWERTY-full keyboard, standard drilling and milling cycles, threading without compensation chuck, lineare interpolation, circular interpolation, processing level swivel, helical curve etc. Siemens tool management for managing tools and tool magazine, program input while editing, spindle power display, electronical handheld terminal, USB-interface, UNISIGN diagnostic system.

Chip conveyor

- Installed longitudinally below the table
- Ejection right
- Discharge high ca. 1.200 mm
- Integrated coolant tank with lifting pump

Guides, drive and measuring system

- All axis drives with digital servomotors
- Direct measuring system for X- and Y-axis
- Z-axis with encoder measuring system
- X-, Y- and Z-axis with high-precision linear guides for maximum precision and dynamics
- Steel covers of the X-axis with roller guide and prallelogram drive

Coolant equipment

- Cooling through spindle including paper band filter
- Clean water tank ca. 450 l, 2 clean water pumps:
- Normal coolant supply 40 l/min 4 bar
- High pressure pump 40 bar
- Monitoring the coolant pressure
- Internal coolant through spindle centre taper DIN 69871 Form A
- Clamping bolt DIN 69872

Angle Boring- and Milling head

angle milling- and boring head, automatic changing over Pick Up Station

Automatic positioning	72 x 5	o	(Hirth)
speed, stepless	30 - 4.000	1/min	
Max. torque 40% ED	650	Nm	
power 40% ED	26	kW	

Complete enclosure, pendulum machining

When the doors are closed, the working space is completely closed. The automatic sliding doors allow loading by crane. Removable cover for pendulum machining.

Opening in the left sid panel 400 x 500 mm for insertion of long workpieces.





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Measurement, weight					
Floor space without swith cabinet	ca. 8,0 x 4,5	m			
Machine height	ca. 4,5	m			
Machine weight ca.	20.000	kg			
Electrical supply data					
Total connected load	55	kVA			
Operating voltage	400	V			
Operating frequency	50	Hz			

equipment

- Complete enclosure
- Radio touch probe manufacturer M&H
- Angle milling head incl. Pick Up Station
- Coolant equipment with 2 coolant circuits and internal coolant through spindle
- Chip conveyor
- Cooling unit for spindle
- Div. tool tapers SK 50



