

TECHNICAL DATA
5-axes – MACHINING CENTRE

manufacturer	WILLEMEN-MACODEL
type	W 408 B
built	2008
control	FANUC 16i-MB



operating hours

operating hours ca. 1.835 h read off

max. travel speed

feed range for X-, Y-, Z- axis 30.000 mm/min

working area for linear axes

x-axis, longitudinal slide	250 mm
y-axis, cross slide	200 mm
z-axis, vertical slide	300 mm
linear guides with preloaded roller bearings in super precision design	
high precision – glass scales	
feed power 2.600 N	

working area for turning axes

b-axis, swiveling axis motor spindle	360 °
b-axis, positioning accuracy	360 x 0,001 °
swiveling area	-10 bis +100 °
resolution	0,001 °
speed max.	25 min-1
torque	160 Nm
holding torque	500 Nm
drive by digital motor and harmonic-drive-system i = 114	
monitoring of the swiveling movement and the positioning by high precision rotary encoder	

a-axis, work piece spindle	360 °
a-axis, positionability	360 x 0,001 °
resolution	0,001 °
speed max.	100 min-1
torque	70 Nm
holding torque	200 Nm

Spindle nose with quick-change system, mounting various clamping devices possible
Integrated hydraulic clamping system, hydraulic spring collet chuck max. Ø 32 mm, suitable for round or profile parts or inserts, push and pull movements adjustable.

tool spindle

tool taper hollow shank	HSK-E 40
drive power S1 (100%)	10 kW
max. torque at the spindle	4,2 Nm
Spindle speed, stepless adjustable	30.000 min-1

data for installation

operating voltage	3~ 400/230 V
frequency	50 Hz
connected value	20 kV A
main fuses	25 A
pneumatic connection	6 bar
machine size	L x W x H 1.500 x 1.840 x 2.300 mm
machine weight	1.700 kg

tool magazine

magazine type	disk magazine
numbers of magazine places	24
max. Ø without free neighbor places	63 mm
max. work piece length	95 mm

Accessories

waterproof machine housing
coolant equipment for external cooling, tank capacity 80 l, pump capacity 20l/min / 4 bar
tool magazine 24 places, automatic change
bar feeder up to max. 32 mm Ø
finished part-handling at right side of the machine, picking-up of finished part in the machine –
storing in transport container
adapter for automatic work piece measurement

Construction features

machine

Machine bed, column and cross slide made of high quality gray cast iron with cross ribs, completely subdivided and covered, very good static and dynamic behavior and great rigidity. Electric control cabinet mounted on the back of the machine. Access to the electrical cabinet through independent door, on the left side of the machine. Completely covering with front sliding door for an easy access to the working space, with safety device. Access door to the tool magazine. Access to the engine room via rear door. Backlash-free ball screws in all linear axes. Direct, absolute measuring systems in all axes

Very well maintained machining center for 5-axis simultaneous machining in medical technology, dental industry, watch industry, jewelery industry, aerospace engineering, precision and micromechanics as well as in mold making

*** SEVERAL MACHINES AVAILABLE ***