

Complete machine description

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| 1 | 1 | Partly refurbished
vertical CNC-machining centre model FZ 08 KSM
Year of construction: 2005, weight: 3.400 kg | |
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Machine-No. 415-10

Scope of delivery:

drilling capacity in St 60	Ø 12 mm
tapping	M 8
milling capacity in St 60	30 cm ³ /min

Column moving machining centre with fixed table
Guideways with long-term-grease lubrication

Digital main drive with spindle

7,0 kW at 100 %
9,0 kW at 25 % - 11 Nm watercooled
Spindle speed range up to 30.000 rpm
Acceleration and deceleration 0 - 30.000 rpm ca. 1,9 sec. each

Travel:

X-axis	450 mm
Y-axis	270 mm
Z-axis	280 mm

Automatic tool changer

via blow out air

No. of tools	24
Tool shaft	HSK-A 40 DIN 69893
Max. tool dia.	max. 50 mm
Max. tool dia.	max. 100 mm if adjacent places are free
Tool length	max. 160 mm
Max. tool weight	max. 1,2 kg (max. magazine loading 20 kg)
Tool change time	appr. 0,8 s (depends on control)
Chip-to-chip-time	appr. 1,9 s (depends on control)



Pos.	Qty.	Article Description	Price / €
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Digital feed drives for X-, Y- and Z-axis

with digital direct drives and indirect absolut path measuring system
rapid traverse in X- and Y-axes and Z-axis 60 m/min,
acceleration: 1,0 g in X-axis
1,5 g in Y-axis
2,0 g in Z-axis

Remark:

With normal conditions the machine does not have to be anchored to the floor.
(For slippery floors we recommend anchoring.)

FANUC 18 i - 3-axes continuous path control

9.5" LCD monochrom screen
memory capacity 32 KB
drilling cycles G81-G89
absolute path measuring system
M- and T-functions
circular interpolation (360 degrees)
re-start into program
makro B sub-routines
look ahead
simultaneous programming
automatic corner override
32 tool offsets
cutter radius - contour compensation
6 zero shifts G54-G59
metric/inch switch
3 D-interpolation/helical interpolation
S-analogue
rigid tapping
orientated spindle stop
Slot for PCMCIA memory card
Interface RS 232C on the side at the control panel
software-limitswitch
NC-diagnosis
machine diagnosis

Thermocontrol

Thermodrive

with indirect path measuring system

Working hours and piece counter
in the screen



Pos.	Qty.	Article Description	Price / €
		Socket 230 V at control panel	
		Socket for portable mini-handwheel without emergency stop button, at control panel	
		Machine enclosure with full enclosed workspace with loading doors, electrically interlocked, 2070 mm high above floor, including machine lamp	
		Cabinet cooler as a door mounting unit	
		Installation elements	
		Wash gun	
		Chip conveyor (scratch band) discharge height 490 mm, tank capacity appr. 110 l pump capacity 110 l/min at 1,9 bar	
		4. NC-axis read for plug-in	
		Automatic loading door of total enclosure opening and closing, actuating via push button at control panel	
		Signal lamp on machine enclosure for 3 signals Signal "red" = failure Signal "white" = load machine Signal "green" = machine is running	
		Coolant equipment with chip container tank capacity appr. 100 l pump capacity 60 l/min at 1 bar Coolant cleaning through interchangeable sieve box and sedimentation basin	
		Documentation Operating manuals, programming and operating manuals 1-fold on a USB-Stick. Please refer to the manufacturer's instructions for each component.	



Pos.	Qty.	Article Description	Price / €
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Machine colour

Two-components-structure varnish - 3 colours
window grey acc. to RAL 7040
grey white acc. to RAL 9002
basalt grey acc. to RAL 7012

Main circuit

total power supply 400 / 230V \pm 10 %, 50 cycles N/PE,
neutral conductor, load possible, pressure supply
6 bar, \pm 1 bar at all procedures,
room temperature max 40°

Information Export

We point out that the CNC-machining centres are subject to controls. For the export from the European Union an export license is necessary.

Information Machine safety

The machine is designed and built in accordance with the European machine guideline, according placing the product on the first time onto the market.
Other safety features due to special company rules and specifications can be considered. The actual cost will be invoiced.

Information Coolant lubrication

The machine is designed for standard water soluble coolant and fully enclosed at the standard version.
The machine must be equipped with fume extraction.

The machine contents different plastics, varnish, resin and glue, which are selected carefully for using coolant and cutting oil.
The use of aggressive coolant and additive could cause major damages and machine stops.
Contact in any case your coolant supplier before machine set-up and installation.

