

Pos.	Qty.	Article Description	Price / €
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Complete machine description

- 1 1 **Vertical CNC-machining centre model FZ 08 KS**
Completely refurbished pre-owned machine
Year of construction: 2001, weight: 2.000 kg

Machine-No. 213-39

Scope of delivery:

Column moving machining centre with fixed table

High speed spindle

2,0 kW at 100%
 3,7 kW at 25%
 Spindle speed range: 20 – 27.000 rpm – 8 Nm
 max. spindle speed in less than 2 sec.

Drilling capacity Ø 12 mm
 Tapping capacity M 8
 Milling capacity 20 cm³/min

Travel:

X-axis 300 mm
 Y-axis 250 mm
 Z-axis 250 mm

Automatic tool changer

Tool places 23
 as chain magazine (without basket changer)
 added as Pick-up Version
 integrated in the machine side protected against chips
 (precondition for inside tool cooling)
 (only toolholders HSK-A 32 DIN 69893 usable)
 Tool shaft HSK-A 32 DIN 69893
 Tool-Ø max. 40 mm
 Tool-Ø
 if adjacent places are free 50 mm
 Tool length 160 mm
 Tool weight max. 0,7 kg
 Tool change time approx. 0,8 s (depends on CNC)
 Chip-to-chip-time approx. 2,2 s (depends on CNC)



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Fixed table with chip pan

clamping surface	620 x 270 mm ²
with grid	M16 x Ø 15 H7 x 50 mm
table loading capacity	max. 150 kg

Remark:

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

FANUC 16i M - 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
 reader connection RS 232C
 software-limitswitch
 NC-diagnosis
 machine diagnosis

Working hours and piece counter
 in the screen

Socket 230 V
 on the control console

Machine enclosure
 bolted on, with loading door, electrically interlocked,
 2.000 mm high above floor, incl. machine lamp



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		Automatic loading door of total enclosure opening and closing	
		Coolant unit with chip container Tank capacity 100 l, pump capacity 60 l/min. at 1 bar	
		Installation elements	
		Wash gun	
		Metal frame with 2-parts sliding door and Polycarbonate-windowpanes	
		Cabinet cooler as a door mounting unit	
		Machine preparation for through tool coolant system including:	
		Thermocontrol	
		Glass scales maker HEIDENHAIN, overpressured in all axes X, Y, Z = 300 x 250 x 250 mm	
		Remark: Zero-point start-up recommended	
		Buttons of the mini-operating panel incl. emergency-stop will be intergrade in the control panel	
		Pneumatic-connection uncontrolled	
		Pneumatic-connection controlled	
		Extension of the Fanuc 16i M	
		High speed skip and extended macro variables (fast measuring input)	
		4. NC-axis, ready for plug-in	
		5. NC-axis, ready for plug-in	
		Data server with Ethernet card	
		2 x ATA-card with 660 MB	



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RISC-processor incl. HPCC

LCD colour screen 10,4"

Documentation

Operating manuals, programming and operating manuals 1-fold on a USB-Stick.

Please refer to the manufacturer's instructions for each component.

Machine colour

Two-components-structure varnish - 3 colours
light grey acc. to NCS S1502-B
blue acc. to NCS S2050-R80B
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.

