

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

- 1 1 **Vertical CNC-machining centre model FZ 08 W**
Completely refurbished pre-owned machine
Year of construction: 2000, weight: 2.200 kg

Machine-No. 463-73

Scope of delivery:

Column moving machining centre with workpiece swivel table

AC-motor

2,2 kW at 100%
 7,4 kW at 25% for main spindle
 Spindle speed 20 – 15.000 rpm – 23 Nm

Drilling capacity

Ø 16 mm

Tapping capacity

M 12

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 32 DIN 69893
 Tool-Ø max. 40 mm (50 mm if adjacent places are free)
 Tool length 160 mm
 Tool weight max. 0,7 kg
 Tool change time approx. 0,6 s (depends on CNC)
 Chip-to-chip-time approx. 1,9 s (depends on CNC)



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Workpiece changer 0/180 degrees with center divider

Clamping surface 2 x 550 x 300 mm²
with thread and locating hole grids
M 16 x Ø 15 H7 x 50 mm
Table loading capacity per side max. 100 kg

AC-servo-motors

Feed drives for X-, Y- and Z-axis
Indirect absolut path measuring system
Rapid traverse in X- and Y-axis: 40 m/min
Rapid traverse in Z-axis: 60 m/min

Fanuc 21 i – 3 axes continuous path control

9,5" LCD monochrom screen
Memory capacity 128 KB
Drilling cycles G81-G89
Absolute path measuring system
M- and T-functions
Circular interpolation (360 degrees)
Re-start into program
Makro B subroutines
Look ahead / Simultaneous programming
Automatic corner override
32 tool offsets
cutter radius – contour compensation
6 zero shifts G54-G59
metric / inch switch
3D-Interpolation/helical interpolation
S-analogue / Rigid tapping
Orientated spindle stop
Tape puncher / reader connection RS 232 C
Software-limitswitch
NC-diagnosis / machine diagnosis

Working hours and piece counter
in the screen

Machine enclosure

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

Installation elements

Wash gun



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Machine preparation

for through tool coolant system including

- Sealing system in the HSK collet
- coolant distributor installed at the main spindle drive
- Coolant leakage sensor
- Implemented mud flap in the high pressure piping
- Solenoid valve, controlled via machine program

Preconditions:

Increased spindle rpm to 15.000 or 27.000

Tool capacity for 24 tools

Coolant high pressure pump

Chip conveyor (scratch band)

discharge height 495 mm with coolant equipment,

tank capacity 150 l,

pump capacity 100 l/min at 1,3 bar

High pressure pump

used together with the standard coolant unit or

the chip conveyor as a inline-pump incl. flow switch

Pressure pump max. 150 bar

Pump capacity max. 6 l/min.

Vario valve 20, 30, 50, 70, 90, 110, 130, 150 bar

Partical coolant cleaning system 60 µ via twin filter

4. axis, ready for plug-in

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 ± 10 %, 50 cycles N/PE,

neutral conductor, load possible, pressure supply

6 bar, ± 1 bar at all procedures,

room temperature max 40°



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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.

