

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

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|---|---|--|
| 1 | 1 | <b>Vertical CNC-machining centre model FZ 08 W</b><br><b>Completely refurbished pre-owned machine</b><br><b>Year of construction: 2000, weight: 2.200 kg</b> |
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**Machine-No. 464-63**

Scope of delivery:

**Column moving machining centre with workpiece swivel table**

**Main Spindle drive with AC-motor**

2,2 KW at 100 %  
 7,4 KW at 25 %  
 Spindle speed range: 20 - 15.000 rpm - max.23 Nm

Drilling capacity in 60 pc.	Ø 16 mm
Tapping capacity	M 12
Milling capacity in steel in 60 pc.	20 cm <sup>3</sup> /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 tool holders HSK-A 32 DIN 69893 usable)	
Tool shaft	HSK-A 32 DIN 69893
Max Tool-Ø	max. 40 mm (50 mm if adjacent places are free)
Tool length	160 mm
Max. 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 swivel table 0/180° degrees**

with middle partition

clamping surface 2 x 550 mm x 300 mm<sup>2</sup>

with thread and locating hole grid M16 x ø 15 H7 x 50 mm

table loading capacity per side 100 kg

## **AC-servo-motors**

feed drives for X-, Y- and Z-axes,

indirect absolut path measuring system

rapid traverse in X- and Y-axes 40 m/min

rapid traverse in Z-axes 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 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

## **Working hours and piece counter**

in the screen

## **Socket 230V**

at control panel



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### Machine enclosure

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

### Installation elements

### Wash gun

### Machine preparation

for through tool coolant system including

- Sealing system in the HSK-A32 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

### Coolant Unit with Chip conveyor (scratch band)

discharge height 490 mm, tank capacity 150 ltr,  
pump capacity 100 ltr/min at 1,3 bar

### High pressure pump

used together with the standard coolant unit or  
the chip conveyor

Pump pressure	max. 150 bar
Pump capacity	max. 6 l/min.
Vario valve	20, 30, 40, 50, 60, 70, 80, 100 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 - 2 colours

light grey	acc. to NCS S1502-B
basalt grey	acc. to RAL 7012



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### Main circuit

total power supply 400 / 230V + 6%/-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.

