

Pos.	Qty.	Article Description	Price / €
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Offer

1 1 **Vertical CNC-machining centre model
FZ 22 W High Speed II
Refurbished used machine - delivered 1995
Weight 6000 kg**

Machine-No. 495-36

Column moving machining centre with workpiece swivel table

AC-motor

14,0 kW at 25%, water cooled
Acceleration power: 45 kW
Spindle speed 20 – 15.000 rpm –90 Nm
Speed acceleration and deceleration
from 0 – 12.000 U/min. each 1 sec.

Travel:

X-axis 630 mm
Y-axis 400 mm
Z-axis 630 mm with adjustable tool change level

Automatic tool changer

with magazine cover against chips
Tool places 36
Tool shaft SK 40 DIN 69871+72
From 10.500 rpm Tool holder after DIN 69871
but with face-lay-on
Tool-Ø max. 75 mm
Tool-Ø
if adjacent places are free max. 105 mm (160 mm)
Tool length max. 250 mm
Tool weight max. 8,0 kg (12,0 kg)
Tool change time approx. 1,5 s (depends on CNC)
Chip-to-chip-time approx. 3,5 s (depends on CNC)

Workpiece swivel table 0/180

Clamping surface 2 x 850 x 470 mm²
with thread and locating hole grids
M 16 x Ø 15 H7 x 50 mm
Tool change time approx. 4,0 s
Table loading capacity per side max. 250 kg (400 kg)
(At larger table charge till 2 x 400 kg extended the table change time to ca. 7 s)

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AC-servo-motors

Feed drives for X-, Y- and Z-axis
 digital high dynamic servo drive with
 Acceleration 4,5 m/sec.
 Indirect path measuring system
 Rapid traverse 30 m/min

Ampèremeter and working hours counter

SIEMENS CNC-control 840C

incl. 14" TFT colour screen
 control panel
 NC-memory 800 KB, free usable
 drilling cycles G81-G89
 M- and T- functions
 circular interpolation (360 degrees)
 re-start into program
 Subroutines, parameter programming
 Operator help
 simultaneous programming
 polar coordinates
 99 tool offsets
 cutter radius – contour compensation
 4 zero offsets G54-G57
 3D-Interpolation
 Helical interpolation, S-analogue
 insert of chamfer and radius
 Tape puncher / reader connection RS 232 C
 NC-diagnosis
 machine-diagnosis

Thermocontrol

**Cabinet cooler as a door mounting unit, maker SEIFERT
 with sealed cabinet cooler**

Top cover as full enclosure

Machine enclosure

with loading door, electrically interlocked,
 2.600 mm high above floor, incl. machine lamp

Mini-operating panel

with start and receipt push buttons, for pallet recognition M61/M62

Installation elements

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2		<p>Optional extra equipment</p> <p>Coolant equipment with chip conveyor (scratch band) discharge height 1050 mm, Tank capacity 500 ltr., N- pump capacity 200 ltr./min. at 1,5 bar, HD- pump capacity 20 ltr./min. at 20 - 70 bar and 5 programmable pressure reduction over vario-valve HD circuit with coolant purification maintenance- free sieve drum</p> <p>Machine preparation for inside tool cooling through spindle, acc. to DIN 69871 Form A40</p> <p>Exhaust fan with air cleaner electrostatic air purifier mounted on the machine exhaust capacity 1.000 m³/h</p> <p>Adaptor for multi spindle heads angular heads and speed increased spindle</p> <p>Wash gun</p> <p>Loading door of total enclosure opening and closing automatically,</p> <p>NC-rotary-table package, completely installed, consisting of:</p> <ul style="list-style-type: none"> - 1 NC-rotary-table type RT 160, maker CHIRON - PEISELER - 4th and 5th NC-axis, complete - 2 adapter plates for centre height 200 mm - central pneumatic supply <p>Technical description for NC-rotary-table: centre height 155 mm, indexing accuracy $\pm 15''$, face plate dia. 160 mm with centre bore dia. 50 H7 positioning pin dia. 16h7, 4 fastening holes M10, with pneum. clamping Spindle speed max. 50 rpm</p> <p>Special plate for RT 160</p> <p>Hydraulic connection for 240 bar with 4 connectors on the table and 4 connecting couplings and hydraulic installation up to outside of machine bed, electrical control for clamping ON - OFF via push button at control panel</p>	

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Hydraulic unit

maker HEILMEIER & WEINLEIN
 pressure: 240 bar
 supply capacity: 5,6 ltr./min.
 incl. valves for supply of 2 clamping devices
 and 2 pressure switches for clamping control

Two-hand-push-buttons

for clamping ON – OFF instead of button on control panel

Rigid tapping

for tapping without compensating chuck

Total machine price, as described above

on inquiry

Packing and loading

(One-way packing for transport by truck)

on inquiry

Documentation and machine marks

Operating manuals, programming and operating
 manuals 1-fold

Delivery time: after arrangement,
 intermediate sale reserved

Delivery

ex works, packing excluded

Payment

100% net before delivery

Warranty

6 months on parts, excluding wear parts

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

Transport insurance

to be covered by customer