

Pos.	Qty.	Article Description	Price / €
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Complete machine description | FZ 08 KS no. 462-84

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

Machine-No. 462-84



Maschinenabbildung ähnlich.
Das Musterfoto beinhaltet keine Ausstattungsbindung.



GB | Data sheet | ref 462-84.docx

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Geschäftsführer:
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Deutsche Bank Tuttingen
BLZ 653 700 75, Kto.-Nr.: 2208 148
Steuer-Nr. 21101/01726, Ust.-Id.-Nr. DE 812948040
IBAN : DE42653700750220814800
SWIFT : DEUTDESS653

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Scope of delivery:

Column moving machining centre with fixed table

AC-motor with High speed spindle

2,2 kW at 100%
7,2 kW at 25%
Spindle speed range: 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
Tool shaft HSK-A 32 DIN 69893
Tool-Ø max. 40 mm
Tool-Ø if adjacent places are free 50 mm
Tool weight max. 0,7 kg (average 0,5 kg)
Tool change time approx. 0,6 s (depends on CNC)
Chip-to-chip-time approx. 1,9 s (depends on CNC)

Fixed table with chip pan

clamping surface 620 x 270 mm²
with grid M16 x Ø 15 H7 x 50 mm
table loading capacity max. 150 kg

AC-servo-motors

Feed drives for X-, Y- and Z-axis
indirect absolute path measuring system
rapid traverse in X- and Y-axis: 40 m/min
rapid traverse in Z-axis: 60 m/min

Siemens CNC-control 840 D

(SIMATIC IPC / NCU 571.5, 6 measuring circuits, 1 channel)
incl. 10,4" TFT colour LCD screen / full keyboard OP032S
NC-memory 256 KB
(max. 200 programmes storage capacity)
for ISO 66025 programming
drilling cycles G81-G89



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drilling and milling cycles
 M- and T- functions
 circular interpolation (360 degrees)
 re-start into program
 Subroutines, parameter programming
 simultaneous programming
 contour programming with cycle support
 support through cycles
 polar coordinates
 tool offsets for geometry, wear
 tool radius correction for
 intersection computing
 crossingradius
 4 zero offsets G54-G57
 30 zero shifts programmable with G-functions
 3D and helical interpolation
 screen switch off
 mirror function
 scaling function
 insert of chamfer and radius
 Universal interface RS 232C (2 x V24)
 orientated spindlestop
 drip feed function through V24 interface
 dimension metric or inch
 software-limitswitch
 NC-diagnosis
 machine-diagnosis
 absolute indirect path measurement systems
 rigid tapping

CMS Powersafe

Software package for selective shutdown of installed consumers such as axis motors, divers, spindles, coolant-pumps and auxiliary equipment during production breaks.
 Definable point in time at which the machine goes demand-oriented automatically into it's Power Safe mode.

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

Cabinet cooler

as a door-mounted unit



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Installation elements

Wash gun

Machine preparation

for inside flushing tools by the spindle,
with hollow shaft, sealing in the HSK-A 32 collet,
rotary joint to spindle drive,
moisture sensor for monitoring of leakage,
high pressure supply with built-in dirt collector
magnetic valve programmed via NC program

Coolant equipment with chip tank

Tank capacity: 100 l., pump power 80 l/min. at 1 bar

Automatic loading door of total enclosure

opening and closing

Safety light barrier

for automatic door

Walk switch

Signal light on control console for 3 signals

Signal "red" = fault
Signal "white" = load machine
Signal "green" = machine running

Coolant connection device for fixture flushing

Measure package

Marker HEIDENHAIN, over pressured in all axes
X, Y, Z = 300 x 250 x 250 mm
note: zero point approach required



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Rotary table package completely installed consisting of:

- NC rotary table, type AWU P 100
mounted to the fixed table grid
- interface 4th NC-axis
lowest increment 0,001°
- pneumatic supply, without control

Technical description NC rotary table
indexing accuracy ± 5 sec. **with direct measuring system**
max. spindle speed 80 rpm
Spindle with pneumatic clamping, centre height 125 mm,
Faceplate-Ø 100 mm, with centre hole Ø 50 + 0,012,
Through bore 35 mm, fixing pin Ø 10H7,
4 mounting holes M8

Chiron standard fixture for rotary table

with:

- base plate for AWU P 100 and counter bearing
- counter bearing with pneumatic clamping
- centring flange, on side of the rotary table
- centring flange, on side of the counter bearing
- counter bearing shaft
- 4-wire power supply on the counter bearing
- 2 x hydraulic
- 2 x pneumatic
- centre height 180 mm
- Bridge size 250 mm

Airsensing

with separate valves for 2 clamping stations

Electrical main switching off

in the pneumatic supply

Pneumatic and hydraulic connections

Pneumatic supply (A + B)

for pneumatic clamping device
electrically controlled pneumatic connection,
for double acting clamping cylinder; 1 pressure controller;
pressure control with automatic pressure regulation.
(in case of pressure change automatic pressure sensing)

Documentation

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

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



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Machine colour

Two-components-structure varnish
light grey acc. to NCS S1502-B

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 CHIRON 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.
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.

