

Data sheet No. 20385308 / 15.09.2022

Item	Qty	Description
1000	1	CNC-machining centre CHIRON FZ 12 KW Year of construction: 2006
1040	1	Column moving machining centre with machine bed in mineral cast technique and workpiece swivel table Guideways with long-term-grease lubrication
1050	1	Machine enclosure with full enclosed workspace with loading doors, electrically interlocked, including replaceable safety windows, workspace enclosure with stainless steel covers. 2140 mm high above floor, including machine lamp
1060	1	Mini-operating panel with start and receipt push buttons, for pallet recognition M61/M62
1070	1	Travel: X-axis 550 mm Y-axis 320 mm Z-axis 360 mm
1080	1	Main spindle drive with AC-motor 7,5 kW at 100 % 13,0 kW at 25 % Spindle speed range: 20 - 15.000 min ⁻¹ - 70 Nm Drilling capacity in steel 60 ø 25 mm (with insert drill) Tapping capacity M 20 Milling capacity in steel 60 120 cm ³ /min.
1090	1	Automatischer Werkzeugwechsler durch robustes, vollgekapseltes Pick-up-Kettenmagazin, mit mechanischem Auffahrschutz und Kegelreinigung über Blasluft Werkzeugplätze 48 Werkzeugkegel HSK-A 50 DIN 69893 Werkzeug-ø max. 60 mm Werkzeuglänge max. 250 mm Werkzeuggewicht max. 3 kg Werkzeugwechselzeit ca. 0,9 s (steuerungsabhängig) Span-zu-Span-Zeit ca. 2,4 s (steuerungsabhängig)
1100	1	Workpiece swivel table 0/180 degrees with centre divider made of sheet metal clamping surface 2 x 660 mm x 350 mm with thread and locating hole grid M16 x ø 15 H7 x 50 mm workpiece swivel time appr. 2,0 s weight-dependent, self-regulating through self-learning speed-control table loading capacity per side 300 kg, max. 100 kg weight difference between the two table sides

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- 1110 1 **AC-servo motors for x-, y- and z-axes**
 digital direct drives with indirect absolut path measuring system
 rapid traverse in all axes 75 m/min.
 Acceleration: X-axis 1 g, Y-axis 1,5 g, Z-axis 2,0 g
- Remark:
 With normal conditions the machine does not have to be anchored to the floor.
 (For slippery floors we recommend anchoring.)
- 1120 1 **FANUC 18i MB5 - 5-axes continuous path control**
 10,4" color screen
 memory capacity 256 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
- 1130 1 **CHIRON Maintenance Management in the screen**
 display of the pending maintenance:
 - advance warning = "prepare maintenance"
 - warning = "carry out maintenance"
 - machine stop = "catch up on maintenance"
 Abridged instructions for the pending maintenance with graphic illustration on CD-ROM.
 Password protected confirmation of the performed maintenance through the maintenance staff.
- 1140 1 **Thermodrive**
 with indirect path measuring system
- 1150 1 **Working hours and piece counter**
 in the screen
- 1160 1 **Socket 230 V**
 at control panel

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- 1170 1 **Socket for portable mini-hand wheel**
without emergency stop button,
at control panel

- 1180 1 **Cabinet cooler as a door mounting unit**

- 1190 1 **Signal lamp on machine enclosure for 3 signals**
Signal "red" = failure
Signal "white" = load machine
Signal "green" = machine is running

- 1200 1 **Chip conveyor (scratch band)**
instead of standard coolant equipment
discharge height 490 mm
tank capacity 100 l,
pump capacity 110 l/min at 1,3 bar
coolant cleaning through slot filter box
mesh size W=0,35 mm

- 1220 1 **Coolant equipment**
tank capacity 350 l.
with low pressure pump 100 l/min. at 2,1 bar,
till 200 l/min. at 1,9 bar
incl. tub flushing

- 1230 1 **Package m-functions**
m72/m73 2 m-function pairs for
m74/m75 simple ON/OFF function
m76 m-functions to control a
m78 peripheral equipment with external setback
(blocking of the machine course)

- 1240 1 **Wash gun**
with 1 connection and quick coupling each
in loading- and working area

- 1250 1 **Oil-free air service unit**
with automatic condensate separator,
pressure control of the air supply
and micro filter 0,01 µm for air purge

- 1260 1 **Installation elements**

- 1270 1 **Interface 4th and 5th NC axis**

- 1275 1 **Flow control switch**
for internal coolant

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| 1280 | 1 | Pneumatic- and Hydraulic Connections |
| 1290 | 1 | Pneumatic connection controlled
with A/B connection on each tableside
for pneumatic clamping device
2 electrically activated pneumatic connections
for double acting; one pressure control,
either for one or two controlled clamping circuits;
at each clamping circuit pressure control
switch with automatic pressure regulation.
(in case of pressure change automatic pressure sensing) |
| 1300 | 1 | Cutting tools
The cutting tools have to be balanced
according to DIN 69 888, class G 6, 3,
in two levels, with max. operating speed |
| 1310 | 1 | Machine colour
two-components-structure varnish - 3 colours
window grey acc. to RAL 7040
blue acc. to NCS S2050-R80B
basalt grey acc. to RAL 7012 |
| 1320 | 1 | - Documentation -

Documentation acc. to CE of the first delivery into market
1 x safety regulations in a folder in English
1 x complete documentation on a USB as PDF
Language of the operating manuals and safety in English |