Data sheet No. 20385473 / 15.09.2022

ltem 1000	Qty 1	Description CNC-machining centre CHIRON CHIRON FZ 12 KW Year of construction: 2009
1040	1	Column moving machining centre with machine bed in mineral cast technique and workpiece swivel table Guideways with long-term-grease lubrication
1060	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
1070	1	Travel: X-axis 550 mm Y-axis 400 mm Z-axis 360 mm
1080	1	Digital main drive with spindlewith air purge and monitoring of the tool clamping1,5 kW at 100 %3,7 kW at 25 %spindle speed range up to 12.000 rpm; 17 Nmacceleration from 0 to 12.000 rpmor deceleration in 0,7 secondsDrilling capacity 16 mm (with insert drill)Tapping capacity M 16
1090	1	Milling capacity 80 cm3/min 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 \emptyset 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
1100	1	Mini-operating panel with start and receipt push buttons, for pallet recognition M61/M62
1110	1	Digital feed drives for X-, Y- and Z-axis with digital direct drives and indirect absolut path measuring system rapid traverse in X- and Y-axes 40 m/min, Z-axis 60 m/min, acceleration X- and Y-axes 0,7 g, Z-axis 1 g
		Remark: With normal conditions the machine does not have to be anchored to the floor. (For slippery floors we recommend anchoring.)

Data sheet No. 20385473 / 15.09.2022

1120

1 Automatic tool change through robust, full enclosed pick up tool changer, with mechanical impact protection an cleaning of the tool taper through air blow No. of tools 48 Tool taper HSK-A 50 DIN 69893 Max. tool dia. max. 60 mm if all magazine pos. are occupied Max. tool dia. for adjacent place with max. dia 40 mm max. 100 mm Max. tool dia. for adjacent place with max. dia 20 mm max. 125 mm Tool length max. 250 mm Max. tool weight max. 5 kg Tool change time appr. 0,9 s (depends on CNC) Chip-to-chip-time appr. 2,4 s (depends on CNC)

1130 1 FANUC 0 i - 3-axes continuous path control

10.5" color 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 64 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 high speed skip macro common variables

1140 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.

Data sheet No. 20385473 / 15.09.2022

1160	1	Installation elements
1170	1	Working hours and piece counter in the screen
1180	1	Socket 230 V at control panel
1190	1	Socket for portable mini-hand wheel without emergency stop button, at control panel
1200	1	Cabinet cooler as a door mounting unit
1210	1	Signal lamp on machine enclosure for 3 signals Signal "red" = failure Signal "white" = load machine Signal "green" = machine is running
1220	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
1230	1	Wash gun with 1 connection and quick coupling each in loading- and working area
1240	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
1250	1	Stationary 3D Probe System type TS 27 R, maker RENISHAW, with adapter plate and air blow for the measuring stylus, for tool breakage control (in one working area), for automatic tool length measurement (at FZ), for automatic temperature compensation, including process-orientated measuring, software for measuring cycles, strategy program and tool holder with ball dia. 12 mm.
1260	1	Probe for automatic measuring in the machine Renishaw - probe - package OMP 40-2LS for part measuring and automatic machine compensation, - probe with optical contact modul and tool taper suitable for machine spindle - tracing pin 58 mm with ruby ball dia. 4 mm - receiver OMI with integrated interface

Data sheet No. 20385473 / 15.09.2022

- bracket for receiver
- process oriented measuring
- software for measuring cycles
 - and strategy program

Remark:

For the carrying out of machine compensations with probe a suitable reference surface at the machine or at the fixture or an optional gauge block (VCS12100800) are necessary.

- 1270 1 Automatic loading door of total enclosure opening and closing, actuating to closing via two-hand push buttons
- 1280 1 Pneumatic- and Hydraulic Connections
- 1290 1 **Central pneumatic supply** without control and 2 outlet couplings

1300 1 Interface 4th and 5th NC axis

1310 1 **Cutting tools** The cutting tools have to be balanced according to DIN 1940, class G 2,5, in two levels, with max. operating speed

1320 1 Machine colour

Two-components-structure varnish - 2 colourslight greyacc. to NCS S1502-Bbasalt greyacc. to RAL 7012

1330 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