

**Data sheet No. 20385320 / 18.06.2026**

Item	Qty	Description
1000	1	<b>Vertical CNC-machining center FZ 15 W 147-73</b>
1040	1	<b>Year of construction:</b> 2003 <b>Condition:</b> completely refurbished
		<b>According to the following items</b>
1060	1	<b>COLUMN MOVING MACHINING CENTRE</b> in steel- concrete- composite design with workpiece swivel table Suitable for dry-machining with optimized chip drop Guideways with long-term-grease lubrication  Drilling capacity in steel $\varnothing$ 36 mm (with insert drill) Tapping capacity M 24 Milling capacity in steel 250 cm <sup>3</sup> /min
1080	1	<b>Machine enclosure</b> with sliding doors, electrically interlocked, 2200 mm high above floor, incl. machine lamp service friendly with removable side walls vertical bellows
1100	1	<b>Mini-operating panel</b> with start and receipt push buttons, for pallet recognition M61/M62
1120	1	<b>Workpiece swivel table 0/180 degrees</b> with centre divider made of sheet metal clamping surface 2 x 660 mm x 400 mm with thread and locating hole grid M16 x $\varnothing$ 15 H7 x 50 mm workpiece swivel time appr. 2.4 s weight-dependent, self-regulating through self-learning speed-control table loading capacity per side 0 - max. 300 kg, max. 100 kg weight difference between the two table sides
1140	1	<b>Travel</b> X-axis 550 mm Y-axis 400 mm Z-axis 425 mm with adjustable tool change level (plus the distance from the spindle mount to the clamping surface, as specified in the data sheet)
1160	1	<b>Main Spindle drive with AC-motor</b> 9,5 KW at 100 % 14,0 KW at 15 % for mainspindle Spindle speed range: 20 - 10.500 rpm - max.90 Nm

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1180	1	<p><b>Automatic tool changer, protected against chips</b></p> <p>No. of tools 20</p> <p>Tool shaft SK 40 DIN 69871 + 72</p> <p>Max. tool dia. 65 mm if all magazine pos. are occupied</p> <p>Max. tool dia. 150 mm if adjacent places are free</p> <p>Max. tool weight 2,5 kg (5,0 kg at 4 places)</p> <p>Tool change time appr. 0,9 s (depends on CNC)</p> <p>Chip-to-chip-time appr. 2,1 s (depends on CNC)</p>
1200	1	<p><b>AC-servo motors</b></p> <p>for x-, y- and z-axes</p> <p>digital direct drives with indirect absolute path measuring system</p> <p>rapid traverse in all axes 60 m/min.</p> <p>with 1, 0 g acceleration</p>
1220	1	<p><b>SIEMENS CNC-control 840D</b> <b>(Upgrade to PCU 50 / NCU 572.5)</b></p> <p>incl. 10,4" TFT colour LCD screen / full keyboard OP010S</p> <p>NC-memory 256 KB</p> <p>(max.200 programmes storage capacity)</p> <p>for ISO 66025 programming</p> <p>drilling cycles G81-G89</p> <p>drilling and milling cycles</p> <p>M- and T- functions</p> <p>circular interpolation (360 degrees)</p> <p>re-start into program</p> <p>Subroutines, parameter programming</p> <p>simultaneous programming</p> <p>contour programming with cycle support</p> <p>support through cycles</p> <p>polar coordinates</p> <p>tool offsets for geometry, wear</p> <p>tool radius correction for</p> <p>intersection computing</p> <p>crossing radius</p> <p>4 zero offsets G54-G57</p> <p>30 zero shifts programmable with G-functions</p> <p>3D and helical interpolation</p> <p>screen switch off</p> <p>mirror function</p> <p>scaling function</p> <p>insert of chamfer and radius</p> <p>Universal interface RS 232C (2 x V24) at control panel</p> <p>Ethernet connection RJ45 in control panel</p> <p>orientated spindle stop</p> <p>drip feed function through V24 interface</p> <p>dimension metric or inch</p> <p>software limit switch</p> <p>NC-diagnosis</p> <p>machine-diagnosis</p> <p>absolute indirect path measurement systems</p> <p>power meter in screen</p> <p>rigid tapping</p> <p>look ahead function</p>

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|------|---|--|
| 1240 | 1 | <p><b>CHIRON Powersafe</b><br/>         To save energy by reducing air and electricity consumption. Software package for selectively shutting down installed consumers such as axis motors, drives, spindles, air shut-off, air sensing, and auxiliary units during production pauses or at programmable times using a shift calendar. A definable time at which the machine automatically begins, based on demand, with a variable “warm-up” program to restore production readiness.</p> |
| 1250 | 1 | <p><b>Preparation 4. and 5. Axis</b></p>   |
| 1260 | 1 | <p><b>Working hours and piece counter</b><br/>         in the screen</p>   |
| 1280 | 1 | <p><b>Socket 230 V</b><br/>         at control panel</p>   |
| 1300 | 1 | <p><b>Cabinet cooler as a door mounting unit</b></p>   |
| 1320 | 1 | <p><b>Installation elements</b></p>  |
| 1340 | 1 | <p><b>Wash gun</b><br/>         with 1 connection and quick coupling each in loading- and working area</p>   |
| 1360 | 1 | <p><b>Automatic central grease lubrication</b></p>   |
| 1370 | 1 | <p><b>Central hydraulic and pneumatic connection</b><br/>         prepared for up to 20 connections, including connection couplings, of which 2 are for uncontrolled pneumatics.</p>   |
| 1380 | 1 | <p><b>Fully enclosed work space</b><br/>         (Standard at high speed plus package)</p>   |
| 1400 | 1 | <p><b>Chip conveyor (scratch band)</b><br/>         with lateral discharge, discharge height 1.050 mm<br/>         tank capacity 300 l with pump capacity 150 l/min. at 1, 5 bar</p>   |
| 1440 | 1 | <p><b>Coolant equipment KF 150 / FKA 500</b><br/>         tank capacity 500 l</p> <p>ND-Pump 40 l/min. at 3,2 bar up to 120 l/min at 3,2 bar<br/>         HD-Pump 28 l/min at 30 bar</p> <p>Full-flow cleaning using compact paper belt filters KF 150 with coolant filtration, 50 µm nominal<br/>         Dual-stage filter in the high-pressure circuit to protect the machine</p>   |

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1450 1 **Machine preparation for coolant supply through the spindle**  
with a rotary joint on the motor hollow shaft  
and a high-pressure supply line with a flow monitor.

Note:

For SK version in Form A.

For HSK, we recommend using

the patented coolant tube with plug-in strainer for the tool holders.

Advantage: Reduced tendency for clogging of  
the coolant holes in the tools.

1460 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)

1500 1 **Suction point**  
for customer specific installation  
Ø 200 mm on top of the machine enclosure

1510 1 **Warranty**  
CMS-full-service-Warranty  
6 months after commissioning  
for NC-control and machine  
excluded wear parts.

1520 1 **Two-components-structure varnish - 2 colours**  
light grey acc. to NCS S1502-B  
basalt grey acc. to RAL 7012

1540 1 **Cutting tools**  
The cutting tools have to be balanced  
according to DIN ISO 1940, class G 2, 5,  
in two levels, with max. operating speed

1560 1 **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