

## Data sheet I CHIRON FZ 08 KSM Nr. 415-10

Pos.	Qty.	Description	Price
100	1,00 ST	<p><b>Partly refurbished vertical machining centre CHIRON FZ 08 KSM no. 415-02</b></p> <p><b>Year of construction: 2005, weight: 3.400 kg</b></p>	
200	1,00 ST	<b>According to described below scope of delivery</b>	
300	1,00 ST	<b>Column moving machining centre</b> with fixed table Guideways with long-term-grease lubrication	
400	1,00 ST	<b>Machine enclosure with full enclosed workspace</b> with loading doors, electrically interlocked, including replaceable safety windows, workspace enclosure with stainless steel covers, 2070 mm high above floor, including machine lamp	
500	1,00 ST	<p><b>Digital main drive with spindle</b> 7,0 kW at 100 % 9,0 kW at 25 % - 11 Nm watercooled Spindle speed range up to 30.000 rpm Acceleration and deceleration 0 - 30.000 rpm ca. 1,9 sec. each Warranty: 4.000 h</p> <p>drilling capacity in St 60      Ø 12 mm tapping                                      M 8 milling capacity in St 60              30 cm<sup>3</sup>/min</p>	
600	1,00 ST	<p><b>Travel:</b></p> <p>X-axis                                      450 mm Y-axis                                      270 mm Z-axis                                      310 mm</p>	
700	1,00 ST	<p><b>Automatic tool changer</b> by robust, full encased Pick up Chain magazine, with mechanic drive protection and cone cleaning above blow out air</p> <p>No. of tools                                  40 Tool shaft                                    HSK-A 40 DIN 69893 Max. tool dia.                              max. 50 mm Max. tool dia.                              max. 100 mm if adjacent places are free Tool length                                  max. 160 mm Max. tool weight                          max. 1,2 kg Tool change time                          appr. 0,8 s (depends on control) Chip-to-chip-time                          appr. 2,5 s (depends on control)</p>	



**Data sheet I CHIRON FZ 08 KSM Nr. 415-10**

Pos.	Qty.	Description	Price
800	1,00 ST	<b>Fixed table with chip pan</b> for optimal chip drop at wet- and dry milling clamping surface 770 mm x 290 mm with thread and locating hole grids M16 x ø 15 H7 x 50 mm table loading capacity max. 500 kg	
900	1,00 ST	<b>Digital feed drives for X-, Y- and Z-axis</b> with digital direct drives and indirect absolut path measuring system rapid traverse in X- and Y-axes 60 m/min, Z-axis 60 m/min, acceleration: 1,0 g in X-axis 1,5 g in Y-axis 2,0 g in Z-axis Remark: With normal conditions the machine does not have to be anchored to the floor. (For slippery floors we recommend anchoring.)	
1000	1,00 ST	<b>FANUC 18 i - 3-axes continuous path control</b> 9.5" LCD monochrom 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 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	



**Data sheet I CHIRON FZ 08 KSM Nr. 415-10**

Pos.	Qty.	Description	Price
		<b>DATA-Server</b> 64 MB memory	
		<b>S-Ram-extension: 1 MB</b> (ca. 5165 KB free available)	
1100	1,00 ST	<b>CHIRON Maintenance Management in the screen</b> 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.	
1200	1,00 ST	<b>Tool lifetime control with:</b> tool place organization, sister tool organization, drill- and milling cycles 6-digital toolnumbers	
1300	1,00 ST	<b>Thermocontrol</b> (deactivated with use of measuring systems e.g. spindle probe, stationary 3D probe or laser control)	
1400	1,00 ST	<b>Thermodrive</b> with indirect path measuring system	
1500	1,00 ST	<b>Installation elements</b>	
1600	1,00 ST	<b>Wash gun</b>	
1700	1,00 ST	<b>Working hours and piece counter</b> in the screen	
1800	1,00 ST	<b>Socket 230 V</b> at control panel	
1900	1,00 ST	<b>Socket for portable mini-hand wheel</b> without emergency stop button, at control panel	
2000	1,00 ST	<b>Cabinet cooler as a door mounting unit</b>	



**Data sheet I CHIRON FZ 08 KSM Nr. 415-10**

Pos.	Qty.	Description	Price
2100	1,00 ST	<b>Oil-free air service unit</b> with automatic condensate separator, pressure control of the air supply and microfilter 0,01 µm for air purge	
2200	1,00 ST	<b>Signal lamp on machine enclosure for 3 signals</b> Signal "red" = failure Signal "white" = load machine Signal "green" = machine is running	
2300	1,00 ST	<b>Coolant equipment with chip container</b> tank capacity appr. 100 l pump capacity 60 l/min at 1 bar Coolant cleaning through interchangeable sieve box and sedimentation basin	
2400	1,00 ST	<b>Additional coolant tank</b> tank capacity 500 l, pump capacity 100 l/min at 1,8 bar (only in combination with chip conveyor, the pump in the chip conveyor becomes the lift pump) coolant filtration via paperbondfilter 50 µm with automatic filter transport	
2500	1,00 ST	<b>- Documentation -</b>	
2600	1,00 ST	<b>Documentation acc. to CE of the first delivery into market</b> 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	
2700	1,00 ST	<b>Machine colour</b> Two-components-structure varnish - 3 colours window grey acc. to RAL 7040 grey white acc. to RAL 9002 basalt grey acc. to RAL 7012	
2800		<b>Main circuit</b> total power supply 400 / 230V ± 10 %, 50 cycles N/PE, neutral conductor, load possible, pressure supply 6 bar, ± 1 bar at all procedures, room temperature max 40°	
2900		<b>Information Export</b> We point out that the CNC-machining centres are subject to controls. For the export from the European Union an export license is necessary.	



## Data sheet I CHIRON FZ 08 KSM Nr. 415-10

Pos.	Qty.	Description	Price
3000		<p><b>Information Machine safety</b></p> <p>The machine is designed and built in accordance with the European machine guideline, according placing the product on the first time onto the market.</p> <p>Other safety features due to special company rules and specifications can be considered. The actual cost will be invoiced.</p>	
3100		<p><b>Information Coolant lubrication</b></p> <p>The machine is designed for standard water soluble coolant and fully enclosed at the standard version. The machine must be equipped with fume extraction.</p> <p>The machine contents different plastics, varnish, resin and glue, which are selected carefully for using coolant and cutting oil.</p> <p>The use of aggressive coolant and additive could cause major damages and machine stops.</p> <p>Contact in any case your coolant supplier before machine set-up and installation.</p>	

