

Data sheet I CHIRON FZ 15 S FA no. 219-32

Pos.	Qty.	Description	Price
100	1,00 ST	Completely refurbished vertical machining centre CHIRON FZ 15 S FA no. 219-32 Year of construction: 2008, weight: 6.920 kg	
200	1,00 ST	According to described below scope of delivery	
300	1,00 ST	Column moving machining centre in steel- concrete- composite design with swing setup Suitable for dry-machining with optimized chip drop Guideways with long-term-grease lubrication	
400	1,00 ST	Machine enclosure with loading door, electrically interlocked, 2200 mm high above floor, incl. machine lamp service friendly with removable side walls vertical bellows	
500	1,00 ST	2 axis rotary table type ZASD 280 consisting of: 4th and 5th axis smallest increment 0,001° Tilting axis Tilting angle: $\pm 110^\circ$ Tilting accuracy $\pm 6''$ with absolute, direct path measuring system RCN 220 via worm drive system incl. hydraulic clamping system max. transmittable torque 1.100 Nm max. torque if the table is clamped 3.800 Nm max spindle rev. 30 rpm rotary table faceplate dia 280 mm with thread and pin hole grid M16 x \varnothing 15 H7 x 50 mm incl hydraulic clamping system Tilting accuracy $\pm 8''$ with absolute, direct path measuring system RCN 220 max. transport weight (workpiece weight): 320 kg max. transmittable torque 700 Nm max. torque if the table is clamped 2.800 Nm Max spindle rev. 100 rpm	

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		Clamping surfaces to the right and left of the rotary table faceplate with thread and locating hole grid M 16 x ø 15H7 x 50 mm Counter bearing incl. hydraulic clamping system without drive max. torque via clamping system 3.800 Nm	
600	1,00 ST	Travel: X-axis 550 mm Y-axis 400 mm Z-axis 425 mm with variable work changing level	
700	1,00 ST	Main Spindle drive with AC-motor 12,0 KW at 100 % 28,0 KW at 15 % Spindle speed range: 20 - 12.000 rpm - max. 180 Nm Drilling capacity in steel ø 42 mm (with insert drill) Tapping capacity M 30 Milling capacity in steel 500 cm ³ /min	
800	1,00 ST	Automatic tool changer Tool places 20 Tool shaft SK A40 DIN 69871 + 72 Tool-ø max. 65 mm Tool-ø if adjacent places are free max. 175 mm Tool weight max. 2,5 kg (5,0 kg on 4 places) Chip-to-chip-time approx. 2,1 s (depends on CNC)	
900	1,00 ST	AC-servo motors for x-, y- and z-axes digital direct drives with indirect absolute path measuring system rapid traverse in all axes 60 m/min with 1,0 g acceleration	
		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	HEIDENHAIN CNC-control iTNC 530 with SIEMENS servo motors incl. 15,1" TFT flat colour LCD screen / full keyboard TE530B Mainframe MC422C, single processor version hard disk 6 GB for ISO 66025 programming and Heidenhain plain language	

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Pos.	Qty.	Description	Price
		Drilling cycles G81-G89 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 free contour programming for workpieces without complete NC dimensions support through cycles polar coordinates swivelling of machining plane TCPM (tool center point management) tool offsets for geometry, wear tool radius correction for intersection computing crossing radius 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 (V24) and RS 422 Fast-Ethernet-Interface 100BaseT orientated spindle stop drip feed function from hard disk or through V24 interface, dimension metric or inch software limit switch NC-diagnosis machine-diagnosis absolute direct path measurement systems rigid tapping look ahead function tool magazine with firm place coding tool management with lifetime control and sister tool organization	
1100	1,00 ST	Portable handwheel (for machines with Heidenhain iTNC530)	

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Pos.	Qty.	Description	Price
1200	1,00 ST	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.	
1300	1,00 ST	Working hours and piece counter in the screen	
1400	1,00 ST	Socket 230 V at control panel	
1500	1,00 ST	Cabinet cooler as a door mounting unit	
1600	1,00 ST	Automatic central grease lubrication	
1700	1,00 ST	Fully enclosed working area	
1800	1,00 ST	Installation elements	
1900	1,00 ST	Signal lamp on machine enclosure for 3 signals Signal "red" = failure Signal "white" = load machine Signal "green" = machine is running	
2000	1,00 ST	Wash gun	
2100	1,00 ST	Chip conveyor (scratch band) discharge height 1050 mm, tank capacity 300 ltr, pump capacity 150 ltr/min at 1,3 bar, incl. bed flushing system	
2200	1,00 ST	Coolant equipment KF 400 / FKA 900 (for cast iron slurry, Al with Si \geq 12%) tank capacity 900 l, pump capacity from 100 l/min at 2,5 bar up to 250 l/min at 2,3 bar high pressure pump capacity 28 l/min at 30 bar high pressure circuit with filtration via paper bond filter KF 400, filtration 50 μ m nominal. twin filter in the high pressure circuit for the protection of the machine.	

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Pos.	Qty.	Description	Price
2300	1,00 ST	<p>Machine preparation for through tool coolant system including:</p> <ul style="list-style-type: none"> - Sealing system in the DIN 69871 Form A40 - coolant distributor installed at the main spindle drive - Coolant leakage sensor - Implemented mud flap in the high pressure piping - Solenoid valve, controlled via machine program <p>We recommend for tool holders the use of our patented coolant tube with sieve. Advantages:- Decrease of the clogging in the internal coolant channel.</p> <ul style="list-style-type: none"> - Reduction of the wear at the O-ring seal in the collet. <p>(Subject: required high pressure equipment)</p>	
2400	1,00 ST	<p>Probe for automatic measuring in the machine HEIDENHAIN probe package TS230</p> <ul style="list-style-type: none"> - probe with built in interface cable connection, tracing pin 40 mm with ruby ball Ø 4 mm - strategy program <p>with shank taper 40 DIN 69871 and radial aligning fork (only with HEIDENHAIN control possible)</p> <p>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. (for machines with basket changer)</p>	
2500	1,00 ST	<p>Pneumatic – and hydraulic connections</p>	
2600	1,00 ST	<p>Hydraulic unit for permanent operations pressure: 210 bar, flow rate: 4,3 ltr./min. incl. valves for supply and clamping circuit for clamping of faceplate and counter bearing complete with hydraulic connection</p>	

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Pos.	Qty.	Description	Price
2700	1,00 ST	Central Pneumatic or Hydraulic Turning Supply 4-fold, integrated in A- and B-axis, with 4 O-ring connections in the center of the face plate Remark: power-actuated clamping fixtures on the faceplate require additional connections and clamping circuits.	
2800	1,00 ST	Turnable control panel with additional sliding door at the machine enclosure, electrically interlocked, for good view into the working area during setup	
2900	1,00 ST	Exhaust fan with air cleaner exhaust capacity 800 m ³ /h Smoke and gases that arise during the processing are not filtered by this unit. In this case we recommend the connection to a central exhaust fan.	
3000	1,00 ST	- Documentation -	
3100	1,00 ST	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	
3200	1,00 ST	Machine colour Two-components-structure varnish - 2 colours light grey acc. to NCS S1502-B basalt grey acc. to RAL 7012 Main circuit 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° Information Export We point out that the CNC-machining centres are subject to controls. For the export from the European Union an export license is necessary.	

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Information Machine safety

The machine is designed and built in accordance with the European machine guideline, according placing the product on the first time onto the market.

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.