

Data sheet I CHIRON DZ 18.2 KW no. 200-16

Pos.	Qty.	Description	Price
100	1,00 ST	Completely refurbished vertical machining centre CHIRON DZ 18.2 KW no. 200-16 Year of construction: 2005, weight: 10.000 kg	
200	1,00 ST	According to described below scope of delivery	
300	1,00 ST	Column moving machining centre workpiece swivel table Suitable for dry-machining with optimized chip drop Guideways with long-term-grease lubrication	
400	1,00 ST	Machine enclosure with full enclosed workspace with sliding doors, electrically interlocked, 2270 mm high above floor, incl. machine lamp service friendly with removable side walls vertical bellows	
500	1,00 ST	Integrated Workpiece swivel table IWW 0/180 degrees With gaps underneath the trunnion fixture for optimal chip drop, with center divider workpiece swivel time appr. 3,7 s weight-dependent, self-regulating through self-learning speed-control table loading capacity per side 0 - max. 180 kg, max. 120 kg weight difference between the two table sides. Per table side integrates: <ul style="list-style-type: none"> - NC-rotary-table, type AWU 160 P with hydraulic clamping accuracy $\pm 15''$, face plate dia. 225 mm, with center bore dia. 50 H7 and 4 T-nuts dia.12 h7, - CHIRON standard fixture for rotary table bridge size 720 mm counter bearing with hydraulic clamping flange plate incl. connecting couplings and quick-locator, on side of the rotary table flange plate incl. connecting couplings and quick-locator, on side of the counter bearing 2 x 2-core energy supply pneumatic or hydraulic swing radius 200 mm - 4th or 5th NC-axes, complete - pneumatic supply without control 	
600	1,00 ST	Mini-operating panel with start and receipt push buttons, for pallet recognition M61/M62	

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Pos.	Qty.	Description	Price
700	1,00 ST	Travel: X-axis 630 mm Y-axis 520 mm Z-axis 400 mm (plus distance from spindle nose to table surface, according to data sheet) Spindle distance in X-axis 320 mm	
800	1,00 ST	Main spindle drive with 2 AC-motors 11,0 kW at 100 % 18,0 kW at 25 % Spindle speed range: 20 - 12.000 min ⁻¹ - 180 Nm Drilling capacity in steel 2 x Ø 42 mm (with insert drill) Tapping capacity 2 x M 30 Milling capacity in steel 2 x 350 cm ³ /min	
900	1,00 ST	Automatic tool changer, protected against chips No. of tools 2 x 12 Tool shaft HSK A 63 DIN 69893 Max. tool dia. max. 78 mm Max. tool dia. max. 160 mm if adjacent places are free Tool length max. 300 mm Max. tool weight 5,0 kg (10 kg at reinforced tool places) Chip-to-chip-time approx. 2,7s (depends on CNC)	
1000	1,00 ST	AC-servo motors for x-, y- and z-axes digital direct drives with indirect absolut path measuring system rapid traverse in all axes 60 m/min. acceleration: 0,5 g in X-axis 0,7 g in Yaxis 1,0 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.)	
1100	1,00 ST	SIEMENS CNC-control 840D (PCU 50 / NCU 573.5, 6 measuring circuit, 1 channel) incl. 10,4" TFT colour LCD screen / full keyboard OP010S Windows NT NC-memory 256 KB (max. 200 programmes storage capacity) for ISO 66025 programming hard disk with approx.. 2 GB for free disposal drilling cycles G81-G89 drilling and milling cycles	

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		<p>M- and T- functions circular interpolation (360 degrees) re-start into program subroutines, parameter programming simultaneous programming contour programming with cycle support support through cycles polar coordinates tool offsets for geometry, wear tool radius correction for intersection computing crossing radius 4 zero offsets G54-G57 30 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 (2 x V24) USB-interface at control panel Ethernet connection RJ45 in control panel orientated spindle stop drip feed function through V24 interface dimension metric or inch software limit switch, NC-diagnosis machine-diagnosis absolute indirect path measurement systems power meter in screen rigid taping</p>	
1200	1,00 ST	<p>CMS Powersafe Software package for selective shutdown of installed consumers such as axis motors, drives, spindles, coolant-pumps and auxiliary equipment during production breaks. Definable point in time at which the machine goes demand-oriented automatically into it's Power Safe mode.</p>	

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Pos.	Qty.	Description	Price
1300	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.	
1400	1,00 ST	Working hours and piece counter in the screen	
1500	1,00 ST	Socket 230 V at control panel	
1600	1,00 ST	Socket for portable mini-hand wheel without EMERGENCY-STOP button, at control panel	
1700	1,00 ST	Cabinet cooler as a door mounting unit	
1800	1,00 ST	Installation elements	
1900	1,00 ST	Chip conveyor (scratch band) small version with lateral discharge, discharge height 1.050 mm, tank capacity 150 l, pump capacity max. 300 l/min. at 1,3 bar	
2000	1,00 ST	Signal lamp for 3 signals Signal "red" = failure Signal "white" = machine loaded Signal "green" = machine is running	
2100	1,00 ST	Fully enclosed working area	

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Pos.	Qty.	Description	Price
2200	1,00 ST	<p>Coolant equipment PF 50 / KFA 900 (for cast iron slurry, Al with Si \geq 12%) tank capacity 900 l, pump capacity from 100 l/min at 2,1 bar up to 250 l/min at 1,8 bar high pressure pump capacity 35 l/min at 30 bar high pressure circuit with filtration via paper bond filter, filtration 50 μm nominal. twin filter in the high pressure circuit for the protection of the machine. incl. bed flushing system and Fixture washing with nozzles installed at the centre divider controlled with m-functions for washing the working area (This filtration method will not eliminate increasing cast iron slurry from the coolant equipment.)</p>	
2300	2,00 ST	<p>Machine preparation for through tool coolant system including: - Sealing system in the DIN 69893 HSK A63* collet - coolant distributor installed at the main spindle drive - Coolant leakage sensor - Implemented mud flap in the high pressure piping and 2 flow control switches - Solenoid valve, controlled via machine program * At HSK A63 we recommend for tool holders the use of our patented coolant tube with sieve. Advantages: Decrease of the clogging in the internal coolant channel. (Subject: required high pressure equipment)</p>	
2400	1,00 ST	<p>Automatic central grease lubrication</p>	
2500	1,00 ST	<p>Suction point for customer specific installation Ø 200 mm on top of the machine enclosure and electrical preparation in cabinet</p>	
2600	1,00 ST	<p>Undervoltage relay with inadvertently variation of the power supply the machine will be stopped</p>	

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Pos.	Qty.	Description	Price
2700	1,00 ST	<p>Electric interface for loader with "Profibus" - Siemens on W-machines for loading through manual or automatic loading door for automatic loading system, with DP/DP-coupler (slave) in the electrical cabinet, according to documentation of CHIRON loader interface, consisting of: circuit diagram, signal description and functional diagram, interface tested according to Chiron-description, incl. key-operated switch and indicator lamp in the control panel "with loader", incl. direct door switch in position "door open"</p> <p>Deviation from the standard interface and set up will be charged according to effort. Waiting periods during set up will also be charged.</p> <p>Recommended options: - automatic doors, if necessary - tool life control - tool breakage control - fixture washing - chip conveyor, if not included in basic machine - Parts location air sensing - automatic central lubrication</p>	
2800	1,00 ST	<p>CHIRON Lasercontrol Single F500 for tool breakage control, distance from transmitter to receiver ≤ 1000 mm, min. tool $\varnothing > 1$mm, incl. test mandrel with tool holder, transmitter and receiver, gland and shutter</p>	
2900	1,00 ST	<p>Additional button for indexing in the loading station indexing $4 \times 90^\circ$ or $2 \times 180^\circ$ for NC rotary tables, 4th or 4th and 5th axis</p>	
3000	1,00 ST	<p>Pneumatic- and Hydraulic Connections</p>	
3100	1,00 ST	<p>Central hydraulic and pneumatic supply prepared for max. 20 connections, 6 connections are installed including connecting couplings, 4 for hydraulic, max. 210 bar and 2 for pneumatic without control. Installation up to the outside of machine bed, with electrical control for clamping ON - OFF via push button at control panel</p>	

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3200	2,00 ST	Further hydraulic connection(s) including 1 connecting coupling, max. 210 bar, addition to central hydraulic and pneumatic supply (a total of max. 20 connections is possible)	
3300	1,00 ST	Hydraulic unit for continues duty, switch cycles less than 30 seconds pressure: 210 bar supply capacity: 4,3 l/min. incl. valves for supply of 2 clamping devices and 2 pressure switches for clamping control	
3400	1,00 ST	Hydraulic unit – extension with pressure regulator 63 bar For rotary table or counter bearing clamping with: 1 second pressure stage 2 further clamping cycles 1 additional clamping cycle (double acting) 2 connections at central hydraulic- and pneumatic connection (a total of max. 20 connections is possible)	
3500	1,00 ST	- Documentation -	
3600	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	
3700	1,00 ST	Machine colour Two-components-structure varnish - 2 colours light grey acc. to NCS S1502-B basalt grey acc. to RAL 7012	
3800		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°	