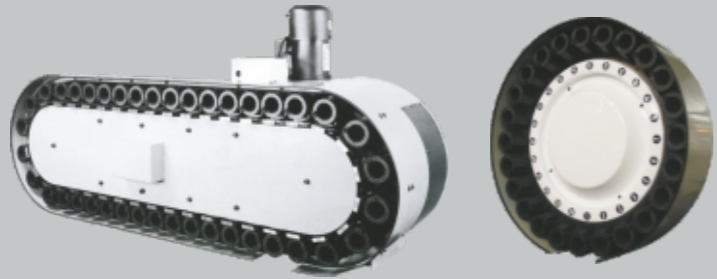
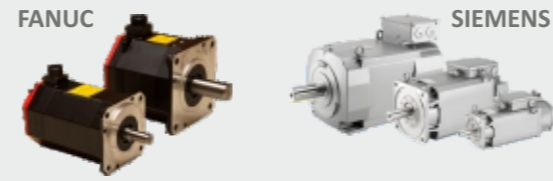


**SELECTABLE TOOL MAGAZINE**

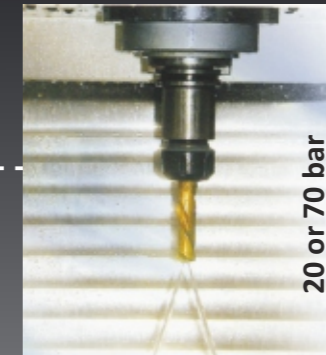


Machine	M400/M450	M500/M550	M650/M700	M800/1000/2000	GM350	VMC350
<b>Magazine</b>						
24 Arm - BT40	X	X	X	X		X
24 Arm - BT50			X	X		
32 Arm - BT40	X	X	X	X		X
32 Arm - BT50			X	X		
40 Chain - BT40		X	X	X		X
40 Chain - BT50			X	X		
60 Chain - BT40		X	X	X		X
60 Chain - BT50			X	X		
30 Pick up - BT40					X	

**SPINDLE MOTORS**



**COOLANT THROUGH SPINDLE**



**CNC ROTARY TABLES**

**4-th axis**

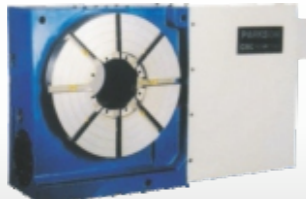


Table diameter:  
125; 170; 200; 250; 320 mm

**4-th & 5-th axes**

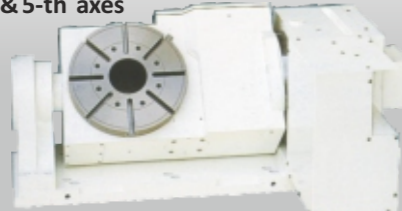


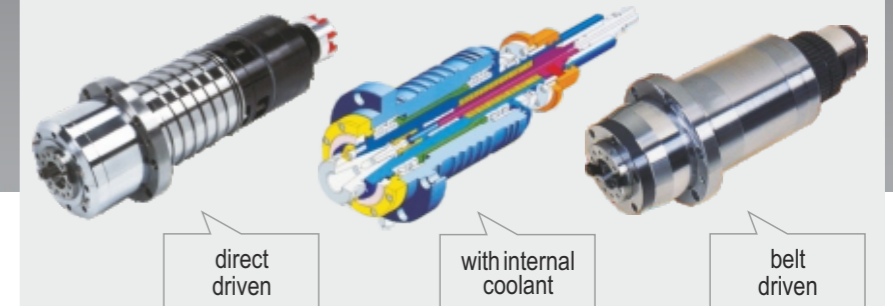
Table diameter:  
170; 200; 250; 320 mm

**AUTOMATIC PALLETTE CHANGER**

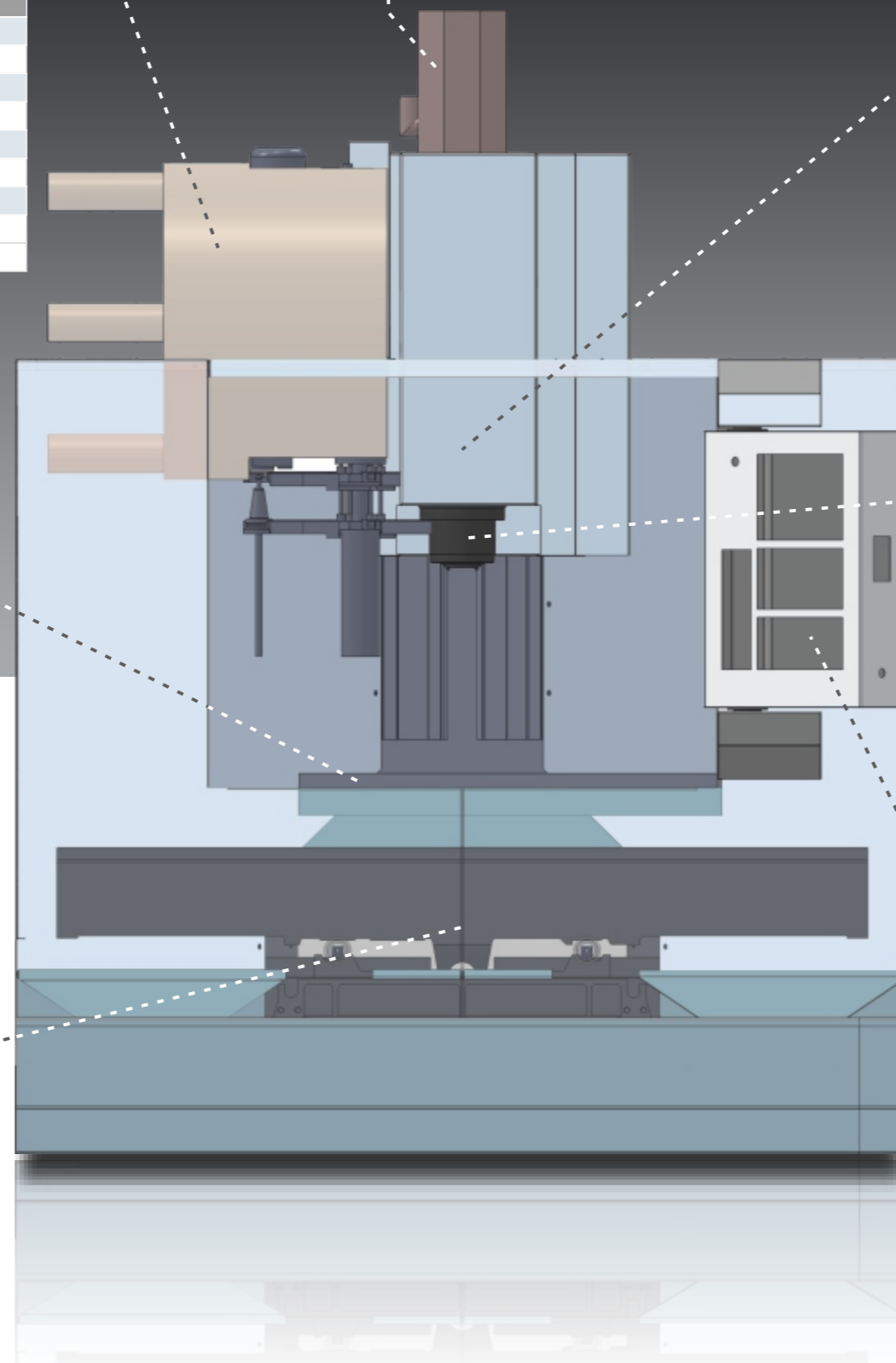


**SELECTABLE SPINDLE**

Toolholder ISO / SK / BT. Precise bearings. Minimum taper play. Increased tightening force.



**SELECTABLE CNC CONTROL**



RAIS SYSTEM  
VMC350  
VMC500

5-AXES VERTICAL MACHINING CENTERS



The machine design is distinguished by minimal temperature deformation; absence of vibrations in working process; high and stable geometry accuracy of finished surfaces.



The 5-axes vertical machining centers RAIS VMC350 / VMC500 are designed to perform various machining operations with high cutting speed and feed conditions for Aerospace industry, Automotive industry, Die & Mold, Medical industry.

All VMC machines are designed to operate with direct drive spindle - to avoid noise and vibration.

24 ATC fast tool change magazine. Automated air blow during tool change.

Directly coupled to the ball screws AC servo motors along all axes.

All ball screws - high precision, class P3, Ø40 mm OD, with a double nut, pre-loaded to control backlash. Screw pre-tensioned to compensate for temperature variations.

The 5-axes machine can also deal with complex parts from aluminum to stainless steel.



TECHNICAL PARAMETERS	UNIT	VMC350	VMC500
<b>CAPACITY</b>			
X axis travel	mm	600	600
Y axis travel	mm	560	560
Z axis travel	mm	510	510
Spindle nose to table	mm	150 - 510	150 - 510
Max tilting on A axis	deg	+ 125 / -10	+ 125 / -10
Max rotating on C axis	deg	+/- 360	+/- 360
Table size	mm	Ø350	Ø500
T - slots: number / size	mm	8 / 14H7	8 / 14H7
Max workpiece weight: horizontal / 90°	kg	300 / 200	300 / 200
Guideways		Linear	Linear
Floor to table	mm	720	720
<b>SPINDLE</b>			
Spindle speed range	rpm	8000 / 12 000* / 15 000*	8000 / 12 000* / 15 000*
Main motor power (100% ED / 30 min.)**	kW	9 / 11	9 / 11
Main motor torque (100% ED)	Nm	57 / 135	57 / 135
Spindle taper		SK40 / ISO40 / BT40	SK40 / ISO40 / BT40
<b>ATC</b>			
Tool capacity		24 (32 / 40 / 60)*	24 (32 / 40 / 60)*
Max tool diameter	mm	80	80
Max tool diameter (adjacent pockets empty)	mm	110	110
Max tool length	mm	350	350
Max tool weight	kg	6	6
<b>FEED</b>			
Rapid traverse X / Y / Z	m/min	30 / 30 / 30	30 / 30 / 30
Max cutting feedrate	m/min	20	20
Z axis motor power (100% ED)	kW	1.4	1.4
Z axis motor torque (100% ED)	Nm	11	11
X / Y axes motor power (100% ED)	kW	1.8	1.8
X / Y axes motor torque (100% ED)	Nm	11	11
<b>SIZE</b>			
Machine weight	kg	7500	7500
Machine dimensions (approx.): L x B x H	mm	3800 x 3050 x 3100	3800 x 3050 x 3100
<b>CNC CONTROL</b>			
		Fanuc 0i (Fanuc 32i / Siemens 828D / Siemens 840D / Heidenhain iTNC620)***	
<b>ACCURACY OF THE MACHINE</b>		DIN8605-8607	DIN8605-8607

(\*) option  
(\*\*) option with Fanuc equipment  
(\*\*\*) on customer request

**OPTIONAL ACCESSORIES**

- Direct drive spindle 12 000 rpm and 15 000 rpm
- Tool setter
- Touch probe with infra-red connection
- Coolant trough spindle with pump 20 or 70 Bar