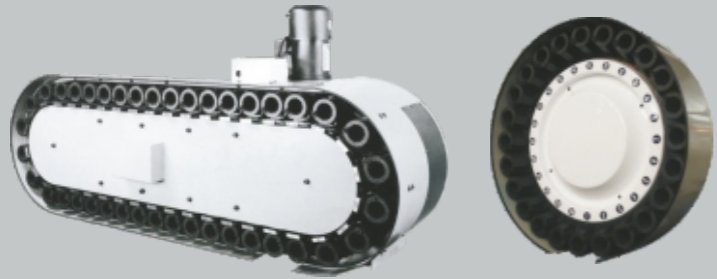
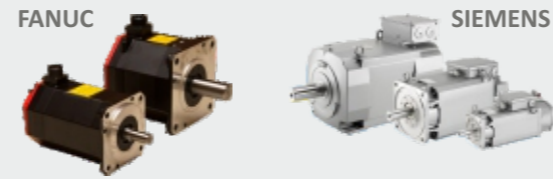


**SELECTABLE TOOL MAGAZINE**

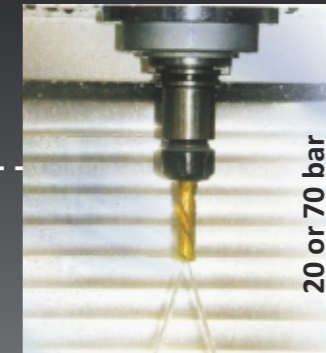


| Machine           | M400/M450 | M500/M550 | M650/M700 | M800/1000/2000 | GM350 | VMC350 |
|-------------------|-----------|-----------|-----------|----------------|-------|--------|
| <b>Magazine</b>   |           |           |           |                |       |        |
| 24 Arm - BT40     | X         | 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**

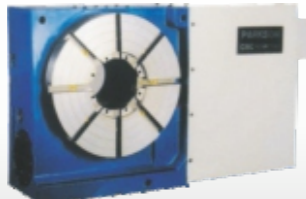


Table diameter:  
125; 170; 200; 250; 320 mm

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

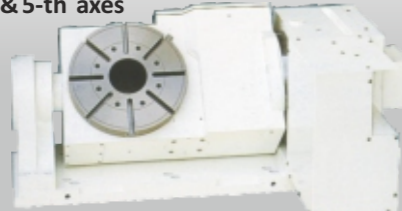


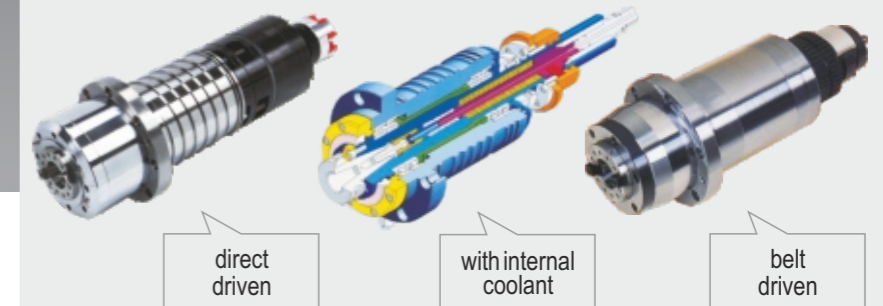
Table diameter:  
170; 200; 250; 320 mm

**AUTOMATIC PALLETTE CHANGER**

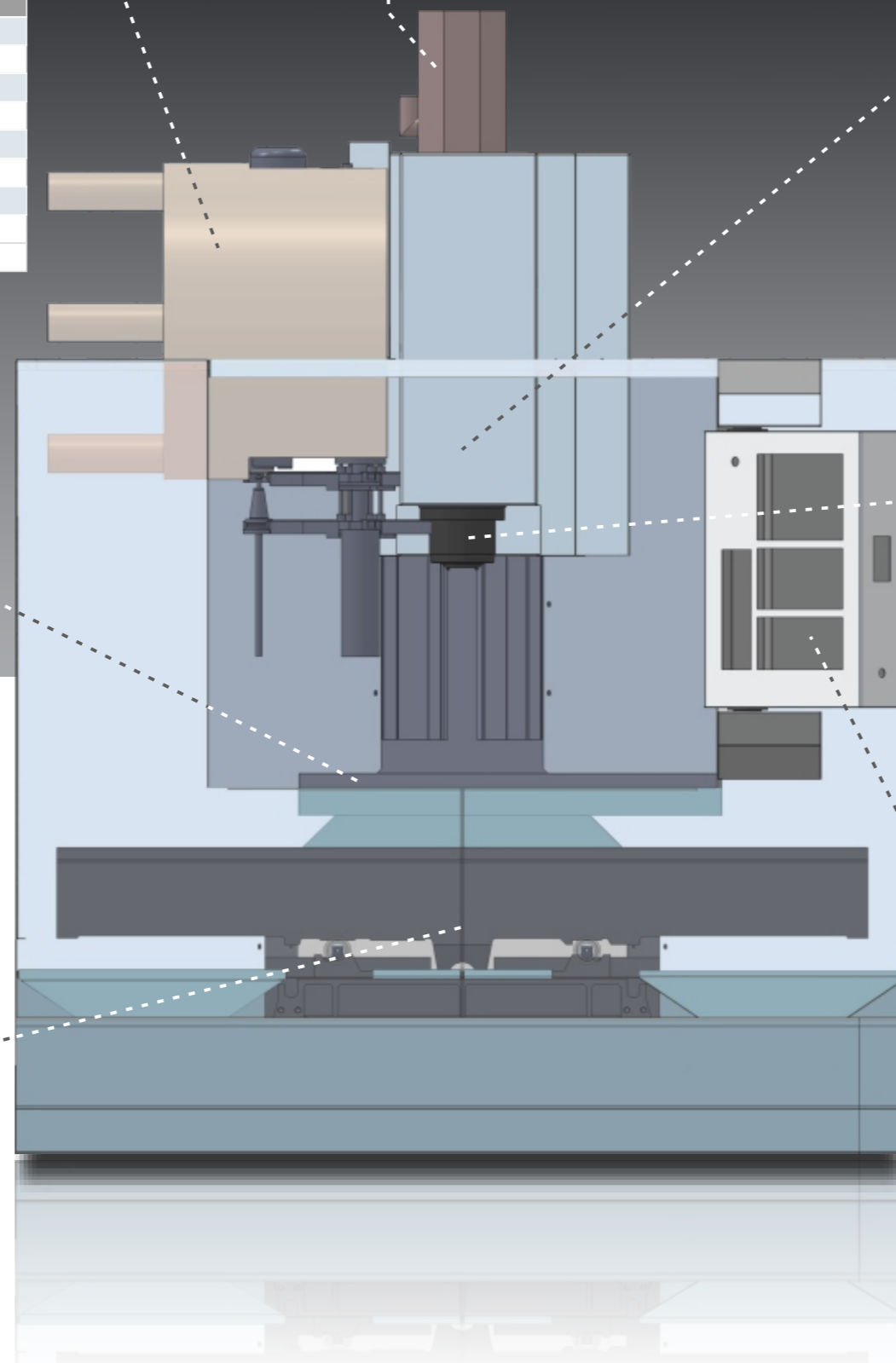


**SELECTABLE SPINDLE**

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



**SELECTABLE CNC CONTROL**



RAIS SYSTEM  
**GM350**

The 5-axes vertical machining center RAIS GM350 is designed to perform various machining operations with high cutting speed and feed conditions for:

- Aerospace industry
- Automotive industry
- Die & Mold
- Medical industry



Optimum machine design: minimum temperature deformation; absence of vibrations in working process; high and stable geometry accuracy of finished surfaces.



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

32 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.

All roller linear guides across all axes for rigidity structure.

Convenient workpiece loading and unloading thanks to large door opening.



| TECHNICAL PARAMETERS                       | UNIT  | GM350   |
|--|-------|---|
| <b>CAPACITY</b>                            |       |   |
| X axis travel                              | mm    | 650   |
| Y axis travel                              | mm    | 1020  |
| Z axis travel                              | mm    | 550   |
| Spindle nose to table                      | mm    | 100 - 650   |
| Max tilting on A axis                      | deg   | +/- 120   |
| Max rotating on C axis                     | deg   | +/- 360   |
| Table size                                 | mm    | Ø350 / 800 x 480*   |
| T - slots: number / size                   | mm    | 5 / 18H7  |
| Max workpiece weight: horizontal / 90°     | kg    | 300 / 200   |
| Guideways                                  |       | Linear  |
| Floor to table                             | mm    | 840   |
| <b>SPINDLE</b>                             |       |   |
| Spindle speed range                        | rpm   | 15 000  |
| Main motor power (100% ED / 30 min.)**     | kW    | 15 / 18,5   |
| Main motor torque (100% ED)                | Nm    | 95  |
| Spindle taper                              |       | SK40 / ISO40 / BT40   |
| <b>ATC</b>                                 |       |   |
| Tool capacity                              |       | 32  |
| Max tool diameter                          | mm    | 70  |
| Max tool diameter (adjacent pockets empty) | mm    | 100   |
| Max tool length                            | mm    | 250   |
| Max tool weight                            | kg    | 6   |
| <b>FEED</b>                                |       |   |
| Rapid traverse X / Y / Z                   | m/min | 30 / 30 / 30  |
| Max cutting feedrate                       | m/min | 10  |
| Z axis motor power (100% ED)               | kW    | 1.4   |
| Z axis motor torque (100% ED)              | Nm    | 11  |
| X / Y axes motor power (100% ED)           | kW    | 1.8   |
| X / Y axes motor torque (100% ED)          | Nm    | 11  |
| <b>SIZE</b>                                |       |   |
| Machine weight                             | kg    | 12 000  |
| Machine dimensions (approx.): L x B x H    | mm    | 2900 x 3650 x 3300  |
| <b>CNC CONTROL</b>                         |       | Fanuc Oi<br>(Fanuc 32i / Siemens 828D / Siemens 840D / Heidenhain iTNC620)*** |
| <b>ACCURACY OF THE MACHINE</b>             |       | DIN8605-8607  |

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

**OPTIONAL ACCESSORIES**

- 4-th & 5-th axes, table diameter 500 mm
- Tool setter
- Touch probe with infra-red connection
- Flat working table 800 x 480 mm
- Coolant trough spindle with pump 20 or 70 Bar