

# RAIS SYSTEM T350 T400

The super precision T350 and T400 RAIS CNC lathes are designed to perform a wide range of turning operations on medium-sized parts and components on a serial production basis.



## STANDARD ACCESSORIES

- ✓ 3-jaw through-hole power chuck
- ✓ Tailstock
- ✓ 12 station turret
- ✓ Chip conveyor and cart
- ✓ Coolant system
- ✓ Working lamp
- ✓ Automatic lubrication system for axis ways and ball screws
- ✓ Foot switch for chuck operation

All structural parts are manufactured from high quality Meehanite cast iron and stress relieved for deformation.

The 45° slant bed construction assures high accuracy and high rigidity for heavy duty cutting.

High strength hardness guide and low resistance design provide prefer cutting surface.

The spindle is mounted with high precision class P4 NN type roller bearings and trust bearings, providing outstanding radial and trust loads.

Transmission with low thermal, preload ball screws, provided higher rigidity control.

Hydraulic tailstock. Programmable positioning is available.

## OPTIONAL ACCESSORIES

- ✓ 12 station tool turret (VDI 40) with 12 rotating tools
- ✓ C-axis of the spindle
- ✓ Non through-hole power chuck
- ✓ Part catcher
- ✓ Bar feeder 1.5 / 3.2 m
- ✓ Bar feeder interface
- ✓ Auto tools presetter
- ✓ Coolant system (high pressure: 20 Bar)
- ✓ Heat exchanger for electrical cabinet



| TECHNICAL PARAMETERS                         | UNIT  | T350                                                         | T400                                           |
|----------------------------------------------|-------|--------------------------------------------------------------|------------------------------------------------|
| <b>CAPACITY</b>                              |       |                                                              |                                                |
| Max swing over bed                           | mm    | 600                                                          | 700                                            |
| Swing over carriage cover                    | mm    | 400                                                          | 450                                            |
| Max turning diameter                         | mm    | 400                                                          | 450                                            |
| X axis travel                                | mm    | 210 + 40                                                     | 235 + 30                                       |
| Z axis travel                                | mm    | 750                                                          | 1 200 / 1 600* / 2 150*                        |
| X / Z axis rapid traverse                    | m/min | 20                                                           | 20                                             |
| Ball screw (X / Z): diameter x pitch         | mm    | 32x10 / 40x10                                                | 40x10 / 50x10                                  |
| Guideways                                    |       | Prismatic                                                    | Prismatic                                      |
| Carriage inclination                         | deg   | 45                                                           | 45                                             |
| <b>SPINDLE</b>                               |       |                                                              |                                                |
| Spindle nose                                 |       | A2-8                                                         | A2-8 / A2-11*                                  |
| Spindle bore                                 | mm    | 92                                                           | 95                                             |
| Power chuck diameter                         | mm    | 250 / 315*                                                   | 380 / 315*                                     |
| Spindle motor 100% ED / 30 min.**            | kW    | 18.5 / 22                                                    | 18.5 / 22                                      |
| Max spindle speed                            | rpm   | 3000                                                         | 2500 / 3000*                                   |
| Bar capacity                                 | mm    | 76                                                           | 76 / 105*                                      |
| Power chucking system                        |       | Hydraulic                                                    | Hydraulic                                      |
| <b>TURRET</b>                                |       |                                                              |                                                |
| Number of tool posts                         |       | 12                                                           | 12                                             |
| Number of rotating tools                     |       | 12*                                                          | 12*                                            |
| Tool holder                                  |       | VDI 40 / BMT*                                                | VDI 40 / BMT*                                  |
| Torque of rotating tools 100% / 40% / max.** | Nm    | 12*                                                          | 12*                                            |
| <b>TAILSTOCK</b>                             |       |                                                              |                                                |
| Tailstock quill taper                        |       | MK5                                                          | MK5                                            |
| Quill travel                                 | mm    | 100                                                          | 100                                            |
| Quill diameter                               | mm    | 80                                                           | 80                                             |
| <b>SIZE</b>                                  |       |                                                              |                                                |
| Machine weight                               | kg    | 5600                                                         | 5800 / 6 000* / 6 200* / 6 400*                |
| Machine dimensions (approx.): L x B x H      | mm    | 3200 x 2200 x 2000                                           | 3 200 / 3 600* / 3 900* / 4 400* x 2200 x 2000 |
| <b>CNC CONTROL</b>                           |       |                                                              |                                                |
|                                              |       | Fanuc 0i<br>Fanuc 32i*** / Siemens 828D*** / Siemens 840D*** |                                                |
| <b>ACCURACY OF THE MACHINE</b>               |       | DIN8605-8607                                                 | DIN8605-8607                                   |

(\*) option

(\*\*) technical data for Fanuc equipment

(\*\*\*) on customer request