M500

The vertical machining centers M500 and M550 RAIS are designed to perform various machining operations on medium-size workpieces in high cutting speed and feed conditions.



Cartridge type spindle, without need of maintenance. High precision bearings (P4 class). The increased axial tighting force eliminates vibrations at heavy cutting conditions.

Linear guide ways along the three axes - size 35, zero clearance. Stable cutting under full load conditions. Minimum friction when in motion. High precision and high speed with no need for adjustment during operational life.

All ball screws - high precision, class P3, Ø40 mm OD, with a double nut, pre-loaded to control backlash. High precision of positioning and smooth operation.

Directly coupled to the ball screws AC servo motors along all axes: guaranteed excellent interpolation accuracy.

Telescopic guards along the three axes: long life of the ball screws and the linear guideways; fast and efficient flushing of chips by means of coolant liquid.

24 ATC fast tool change magazine - 2.8 sec. Automated air blow during tool change ensures cleaning of the spindle cone and holder.

High-quality housing castings of grey cast iron. Optimum ribbed base, column, spindle casing and table. Ensured for maximum rigidity and minimum bending under applied load conditions.

Fully enclosed electrical cabinet with heat exchanger, accordance to CE requirements.

Ability to implement with Automatic Pallette Changer.

Optimum construction: minimum heat deformation; absence of vibrations in working process; high geometry accuracy and smoothness; of finished surfaces.





M550
1200
610
610
150 - 760
1300 x 600
5 x 18 x 100
1000
Linear
870
000** 8 000 / 10 000* / 12 000* / 15 0
11 / 15
52.5 / 95.5
SK40 / ISO40 / BT40
24 (16 / 30 / 40)***
80
150
300
6
20 / 20 / 20
10
W Fanuc βi S 22/2000 / 2.5 kV
20
W Fanuc βi S 22/2000 / 2.5 kV
20
6 800
3450 x 2805 x 2950
Fanuc 0 <i>i</i> / Siemens 840D / Heidenhain iTNC620)**
D I N8605-8607

- (***) option (****) on customer request

OPTIONAL ACCESSORIES

- 4-th axis, table diameter 250 / 320 mm
- 4-th & 5-th axes, table diameter 200 / 250 / 320 mm
- Direct drive spindle 15 000 rpm
- Tool magazine 30 or 40 tools with arm

- O Tool setter
- Touch probe with infra-red connection
- Coolant trough spindle 20 or 70 Bar
- Chip conveyor