

BIMATEC S O R A L U C E

CNC- Bed- Milling and Boring centre TA-25

Traverses: Longitudinal (X): mm 2500

Vertical (Y): mm 1000 (Option) mm 1250

Cross (Z): mm 1000

Bed surface: Length: mm 2700

Width: mm 850

T-Slots: mm 5 x 22 H12

Reference T-slot: mm 1 x 22 H8

Distance between T-slots: mm 140

Spindle motor: 100 % ED kW 24

Tool taper: ISO 50, DIN 69871 – A (Option) ISO 50, DIN 69871 AD

Spindle speed range: min-1 20 - 3000 (Option) min-1 20 - 4000

Torque: Nm 408

Rapid traverse range: X-, Y- and Z-Axis mm/min 25000

Acceleration rate: m/s² 2

Machine weights: kg 15000



STANDARD EQUIPMENT OF THE MACHINE :

- HEIDENHAIN control system iTNC 530 (Flat 15.1" TFT Screen with digital drives) including software option 1 and 2. One processor version
- HEIDENHAIN smarT.NC.
- HEIDENHAIN portable electronic hand wheel unit HR 420 with 5m connecting cable
- Hydraulic counter weight for vertical axis.
- 3D-Thermal expansion compensation for HEIDENHAIN CNC contouring system.
- Universal manual milling head with two joints manually indexing, 4000 min-1, equipped with an automatic mechanical device for tool clamping at 13000 Nm
- Coolant system 1 with coolant delivery via a two flexible segment tubes with 150l capacity tank with one pump providing 3 bar pressure and 50 l/min flow
- Complete splash guarding system with two sliding doors in front of the machine and a back door to operate the machine from the front and the back.
- HEIDENHAIN AC-motors in all axes with digital drive.
- Spindle navigation and tread cutting without compensating chuck.
- INA RUE 45 linear guide way systems in all axes with central lubrication.
- HEIDENHAIN direct linear measuring systems in all axes.
- Ball bearing screws (IT5) in all axes
- Telescopic metal guards for X-axis guide ways protection

- Automatically cycle lubrication of all axes
- Electrical equipment fabrication Siemens.
- Vickers hydraulic components
- Complete set of anchoring bolts / levelling screw elements.
- Working area lighting (Halogen beam lamp)
- Painting of the machine RAL 5011 (steel blue), RAL 7035 (light grey)

OPTIONALLY EQUIPMENT OF THE MACHINE:

- Increasing of the vertical traverse $Y = 1.250$ mm
- Universal manual milling head with two joints manually indexing, 4000 min⁻¹, equipped with an automatic mechanical device for tool clamping at 13000 N.
- Internal coolant through the machine spindle in accordance with DIN 69871 Form AD and coolant delivered through two flexible segment hoses. Tank capacity 500 liters + coolant transfer tank 150 liters, flow 50 l/min, pressure 5/15 bar (2 pumps):
- Automatic tool changer with 20 tool magazines including vertical tool change.
- One swarf conveyor for machine with $X=2.500$ mm traverse (TA-25). Hinge conveyor belts. Width: 250mm. Pitch: 2".
- Three swarf conveyors for machine with $X=2.500$ mm traverse (TA-25). Two longitudinal swarf conveyors, screw type and a third cross swarf conveyor, hinge belts type. The cross conveyor includes an integrated coolant tank instead the standard coolant system. This cross conveyor has a width of 250mm and a pitch of 2".
- Touch probe system M & H 20.41 for work pieces measuring.