

2 + 1 axes slides CNC lathe

CUBE

2 horizontal and 1 vertical slides
 Spindle moves mounted on the
 horizontal slides



■ **2 + 1 axes slides**

The spindle is mounted on the X, Z slides and the tools are set on the Y slide.

■ **Easiest chip disposal**

Tools are set vertically on the Y slide.

This makes an open space under the spindle and the chips drop down directly to the chip tank.

The machine is the best basic machine for automation.

■ **Application of various kinds of automation devices**

Besides being used as a front type lathe, this machine can become the base for the application of the robot-station or simple automation device of LL loader having work supply chute or work collection device.

■ Machine standard specifications

| Item | | Description | | |
|----------------------|------------------------------|---------------------|--|--|
| Holder and Work size | Tool holder for O.D. turning | | □ 16 x 5pcs. | |
| | Tool holder for I.D. turning | | ϕ 25 x 5 pcs. | |
| | Max. work size | mm | ϕ 100 x 80 | |
| Spindle | Change of speed | | Step-less, S4 digits direct command | |
| | Speed | m i n ⁻¹ | max. 8,000 | |
| | Nose | mm | ϕ 100 flat | |
| Slide | Travel | mm | X axis : 300 Y axis : 170 Z axis : 150 | |
| | Rapid traverse | m/m i n | X axis : 12 Y axis : 12 Z axis : 12 | |
| | Jog speed | mm/m i n | 0 ~ 1,287 | |
| | Number of tools | | max. 10 | |
| | Type of slide | | Vertical linear turret | |
| Motors | Spindle | | 2.2/3.7 (Built-in motor) | |
| | Slide | k w | 2.5 | |
| | | | 1.0 (with brake) | |
| | | | 1.0 | |
| Power Electricity | | KVA | 14 | |
| Center height | | mm | 1007 | |
| Machine height | | mm | 1,660 | |
| Floor space | | mm | 1,150 x 1,370 | |
| Machine weight | | k g | 1,660 | |

■ Control unit

| Item | | Description | |
|-----------------------------|--|--|--|
| NC control unit | | FANUC/S 32i-A | |
| Display | | 7.2 inch L.C.D. (mono-chrome) | |
| Axes controlled | | 3 axes (X, Y, Z) / Max. Simultaneous 4 axes (Option) | |
| Least input incremental | | X axis : 0.001 (dia.) , Y and Z axes : 0.001 | |
| Interpolation | | Linear, Taper, Thread, Circular | |
| Auxiliary function | | M 2 digits | |
| Spindle function | | S 5 digits | |
| Tool function | | T 2 digits | |
| Tool offset | | 16 pairs | |
| Part program storage length | | 64KB (equiv. 160m) | |
| Rapid traverse override | | 0 ~ 150% | |
| Canned cycle | | O.D. (G90), Thread (G92), Face (G94) | |
| Interface | | RS232C and memory card | |
| Others | | Run hour and parts count display Optional stop, Geometry offset Program number search, Single block Radius designation on arc, Feed hold Chamfering and corner R, Block delete Sequence number search, Emergency stop | |

■ Machine options

- Air blower, Mist collector, Spindle index device
- Oil mist coolant device, Work collection device, Spindle brake device
- Hole and flange for mist collector, Chip conveyor, Work collection conveyor
- Temperature control device for tool tip coolant oil, Optical scales for X, Y, Z

■ Recommended options

- Work light (LED)
- Cutting tool coolant device

■ Standard accessories

- Tool box and tool kit
- Splash guard

■ CNC options

- Tool offset pairs 32
- Simple tool life management function
- Tool nose radius compensation
- Custom macro
- Spindle orientation
- Circular threading / continuous threading
- Multiple repetitive cycle (G70~G76)
- Incremental system 1/10

■ Work samples at JIMTOF 2008



Thrust bearing
Material : C3603
The vertical multi joint robot reverses the workpiece.
The both faces are turned. The rotating tools
mill the slots.

■ Dimensions

