MY-TURN T42DSY
Mill-turn Multitasking Turning Center
Twin Spindle Single Live Turret 45° Slant Saddle
MY-TURN T42DSY
Mill-turn Multitasking Turning Center
Significantly Reduce Your Machining Time

- Twin spindle configuration allows for front and back machining on a part.
- C-axis functions on both main and sub-spindle.
- 12-station live turret permits milling, drilling and tapping efficiently.
- A2-5 spindle nose.
- 6,000 RPM high spindle speed.
- High precision spindle accommodates collet chuck and 3-jaw chuck.
- Chip conveyor is standard equipment.
- Fully-enclosed splash guard.

45° Slant Saddle
Twin Spindle Single Live Turret
Compact Design
Highly Rigid Construction

- All structural parts are manufactured from high quality Meehanite cast iron – stress relieved to minimize deformation.
- Massive bed and base construction feature high rigidity and excellent vibration dampening.
- Specially treated way surfaces without need of Turcite-B coating.
- Box ways on X, Y, Z1, Z2-axis.
- 45° slant saddle.
- Box ways thickness is increased by 25%.
- Class ball screws on X, Y, Z1, Z2-axis feature minimum backlash.
- Y-axis with ±35 mm travel allows for side milling, drilling and tapping when used together with C-axis function.
Optimal Spindle Bearings Deployment

- The main spindle is supported by two angular contact ball bearings and one double-row cylindrical roller bearing at the front end which absorb radial and axial forces.
- A double-row cylindrical roller bearing is located at the rear end of the spindle to ensure stability, rigidity and accuracy.
Quality features for maximum dependability of performance

Oversized Box Ways on All Axes

- All axes are box-ways construction combined with a great span for dramatic increase in rigidity and stability.
- Way surfaces are specially treated to eliminate the use of Turcite-B making the machine excellent for heavy cutting.
- Thickness of box ways is 25% bigger than that of previous model with greater rigidity.

VDI 30 12-Position Live Turret

- Driven by a Fanuc servo motor, the live turret provides fast tool indexing in only 0.3 ~ 0.9 seconds.
- The live turret in combination with the C-axis function allows the machine to perform milling, drilling and tapping operations.
- Positioning accuracy reaches ±2 μ.

Main and Sub-spindle

- The main and sub-spindle configuration allows front and back machining on a workpiece to be performed at one time.
- Both main and sub-spindle feature C-axis function.
- Indexing accuracy of C-axis is 0.001°.
45° Slant Saddle

- The 45° slant saddle construction not only facilitates chip disposal, but also provides a solid support for the turret.
Raising machining performance and versatility

Parts Catcher (optional)
- The parts catcher provides convenient and efficient parts collection.

Finished Parts Conveyor (optional)
- Upon request, a parts conveyor is available for the machine sending finished parts out of the machine.
- The parts conveyor is programmable by the CNC control.

Bar Feeder (optional)
- The optional bar feeder allows the lathe to perform fully automatic operations. This results in a reduction of labor costs, while dramatically upgrading production efficiency.

Chip Conveyor
- Choice of screw type or chain type chip conveyor.

High / Low Pressure Coolant Pump
- This machine employs a high/low pressure coolant pump. The high pressure pump delivers powerful coolant to the turret, while the low pressure pump delivers coolant to the spindle.
- The discharge pressure of the pump is 20PSI.

Large Coolant Flow
- Coolant discharge from pump is 66 l/min at pressure 1 or 2 kg/cm² (50/60 Hz).

Coolant / Oil Separation Tank
- The coolant tank is designed with oil separation for convenient cleaning. Also, it prevents coolant deterioration and odor.
Various Types of CNC Controllers for Selection

- Fanuc 0i-TD Controller (standard)
- Mitsubishi Controller (optional)

- DIN173E Ø6” hydraulic 3-jaw chuck (optional)
- Max. clamping capacity Ø320 mm.

Collet Chuck
- The spindle is mounted with a collet chuck, allowing fast chucking for bar workpieces.
- Applicable collet type is DIN173E.
Sub-spindle Travel Range

Tailstock Travel Range

Tooling System Diagram

(20 x 20) O.D. tool

(20 x 20) O.D. tool

Facing tool holder

O.D. tool holder

Collet Sleeve

Boring Bar Sleeve

(Ø8)
(Ø10)
(Ø12)
(Ø14)

I.D. tool holder

Twin-head / radial live tool

Radial live tool (left side)

Radial live tool (right side)

Axial live tool

Wedge block

VDI 30 12-Stations

(ER25)
Tool Interference Diagram For Live Turret

Spindle Speed / Torque Diagram (Fanuc AC Spindle Motor)

Machine Dimensions

Unit: mm
## MY-TURN T42DSY Specifications

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### STANDARD ACCESSORIES:
- Collet Chuck
- 3 Color Indicator Light
- Work Lamp
- Bar Feeder Interface
- VDI Live Turret
- Coolant System
- Auto Lubrication System
- Fully Enclosed Splash Guard
- Auto Power Off
- Chip Conveyor
- Heat Exchanger for Electrical Cabinet
- Fanuc 0i-TD Controller

### OPTIONAL ACCESSORIES:
- Parts Catcher
- Parts Conveyor
- Oil Mist Collector
- Oil Skimmer
- High Pressure Coolant System
- Tool Setter
- VDI Live Tool
- Power Transformer
- Power Regulator
- 6" 3-jaw Chuck
- Coolant Detection Switch
- Barfeeder
- Mitsubishi M70 Controller
- Tail Stock

*All specifications and designs are subject to change without prior notice.*

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