

MY-TURN T42DSY Specifications

	Item	Unit	T42DSY
Capacity	Swing over saddle	mm	400
	Chuck diameter	inch	6
	Bar capacity	mm	42
	Max. turning length	mm	200
	Max. turning diameter	mm	320
	Max. turning bar diameter	mm	42
Travel	X1 axis travel	mm	170
	Z1 axis travel	mm	320
	Y1 axis travel	mm	±35
	Z2 axis travel	mm	310
Spindle	Spindle nose	type	A2-5
	Chuck size	inch	6
	Hole through spindle	mm	45
	Spindle speed	rpm	60~6000
	Spindle motor type	type	Flenge
	Spindle motor	kw	5.5/7.5
Sub-spindle	Sub-spindle nose	type	A2-5
	Chuck size	inch	6
	Hole through sub-spindle	mm	38
	Sub-spindle speed	rpm	60~6000
	Sub-spindle motor type	type	Flenge
	Sub-spindle motor	kw	3.7/5.5
Live Turret	Servo powered turret	BMT/VDI	VDI/30
	No. of tool stations	set	12
	Tool size (square)	mm	20
	I.D. of boring bar holder	mm	25
	Turret indexing time	sec	0.3~0.9
	Live tool motor	kw	2.2/3.75
	Index Motor	kw	1
Feed Rate	X1 axis rapid traverse	min	24
	Z1 axis rapid traverse	min	24
	Y1 axis rapid traverse	min	10
	Z2 axis rapid traverse	min	24
Dimensions	Machine width	mm	2420
	Machine depth	mm	1500
	Machine height	mm	1720
	Coolant tank capacity	L	160
	Controller type		Fanuc Oi-TD/Mitsubishi M70

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

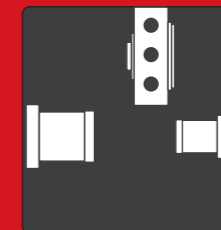
STANDARD ACCESSORIES:

- 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 Oi-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

Double Spindle Multi-Tasking Turning Center



T42DSY T52DSY T60DSY



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Renewed Partnerships
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MY-TURN T42/52/60DSY

Mill-turn Multitasking Turning Center



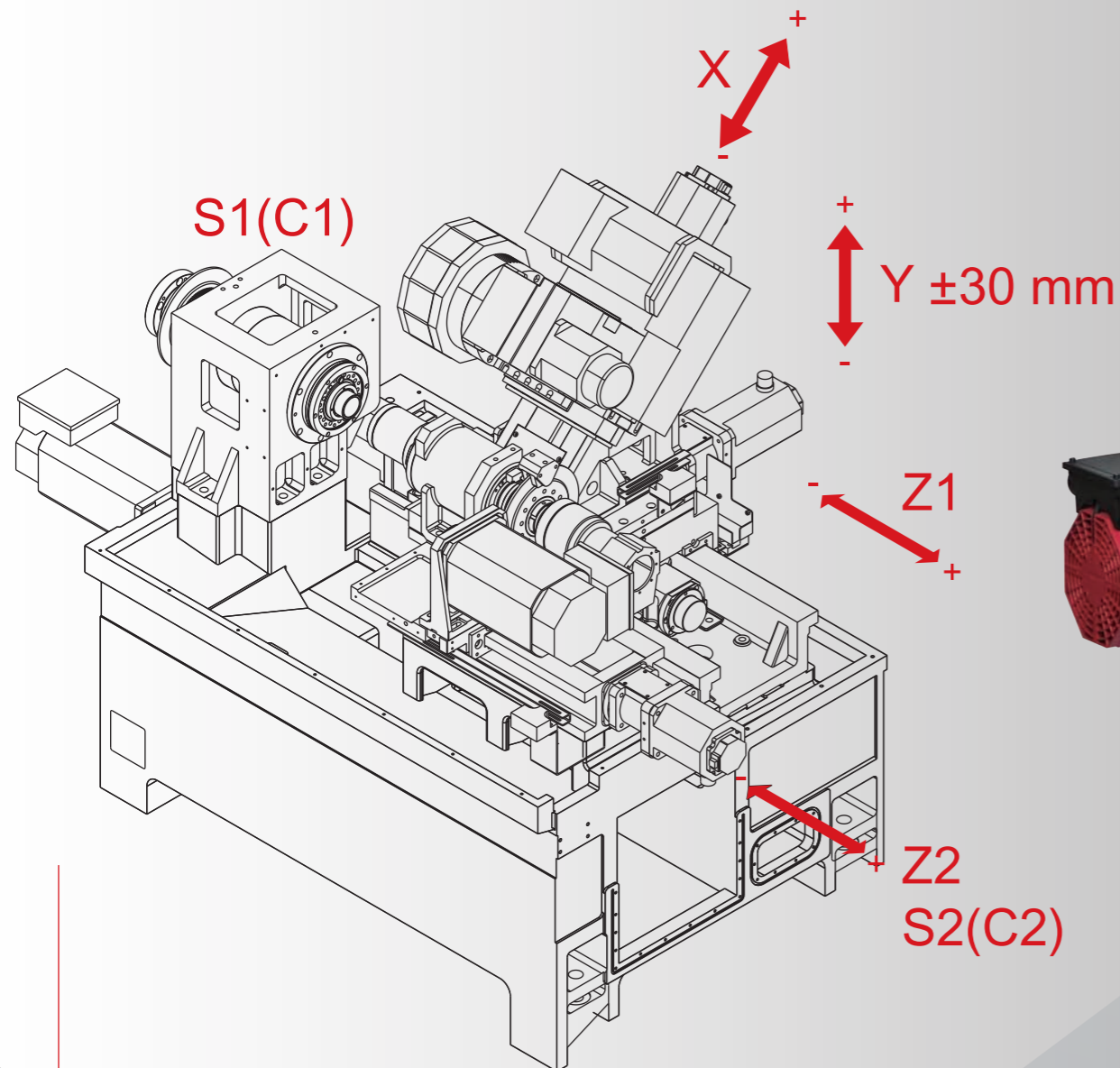
Significantly Reduce Your Machining Time

- 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.
- X, Z, Y-axis feed rates: 24/24/10 M/min.
- Chip conveyor is standard equipment.
- Fully-enclosed splash guard.

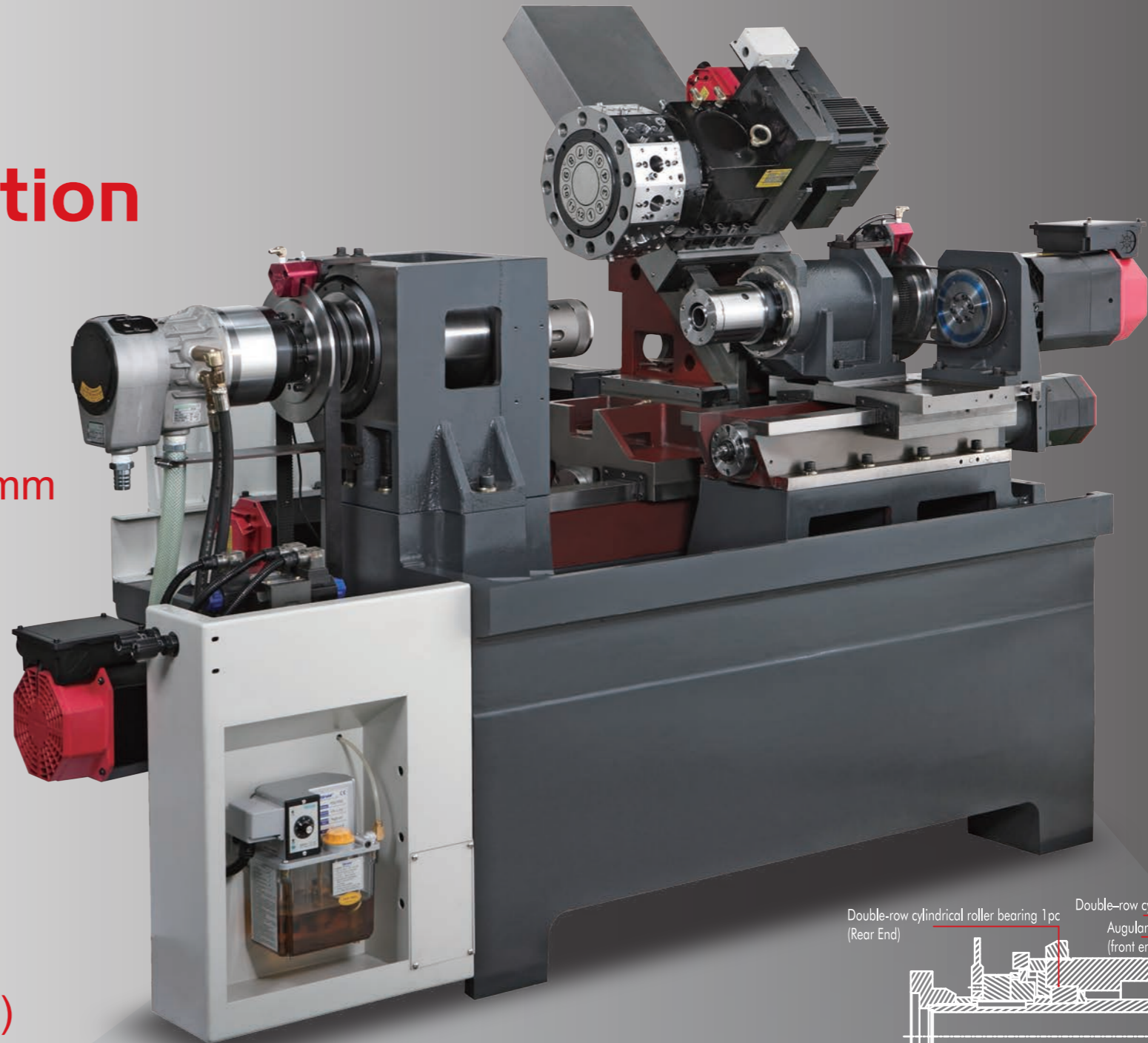
45° Slant Saddle
Twin Spindle Single Live Turret

Compact Design

Highly Rigid Construction

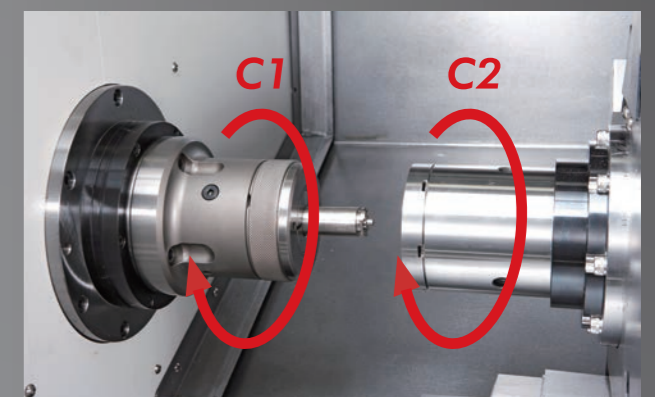
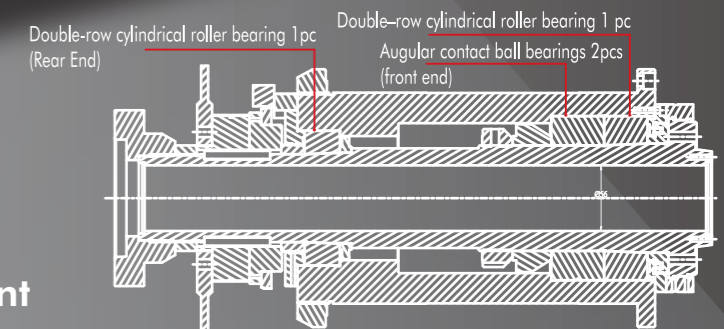


- All structural parts are manufactured from high quality Meehanite cast iron – stress relieved to minimize deformation.
- Massive bed and base construction feature high rigidity and excellent vibration dampening.
- Specially treated way surfaces without need of Turcite-B coating.
- Box ways on X, Y, 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

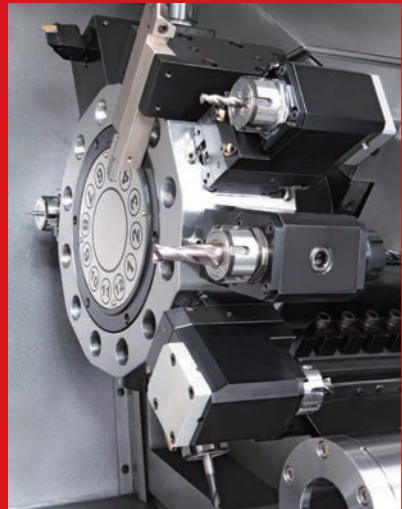
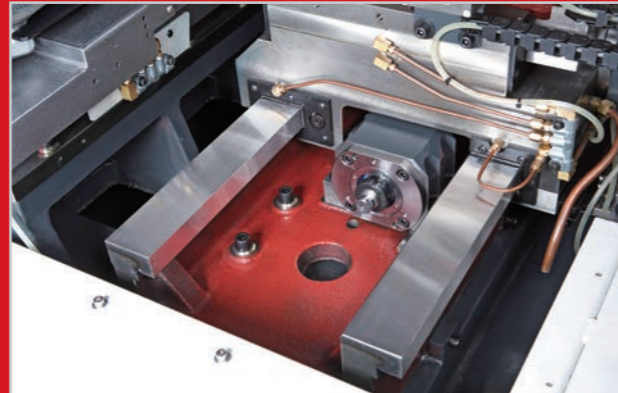
- The main spindle is supported by two angular contact ball bearings and one double-row cylindrical roller bearing at the front end which absorb radial and axial forces.
- A double-row cylindrical roller bearing is located at the rear end of the spindle to ensure stability, rigidity and accuracy.



Quality features for maximum dependability of performance

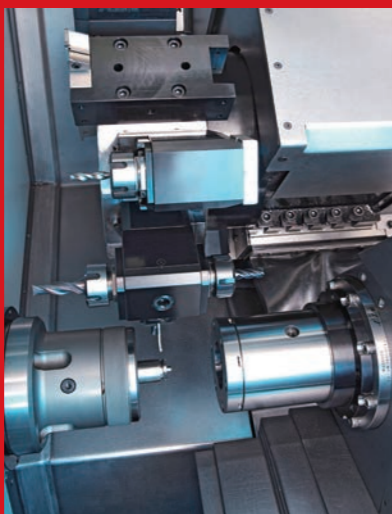
Oversized Box Ways on All Axes

- 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 $\pm 2 \mu$.



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

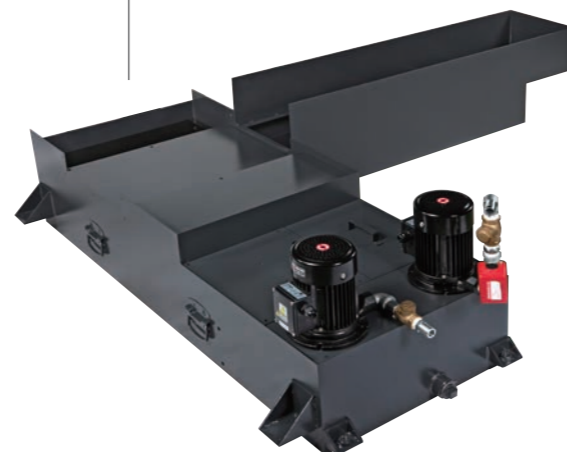
- This machine employs a high/low pressure coolant pump. The high pressure pump delivers powerful coolant to the turret, while the low pressure pump delivers coolant to the spindle.
- The discharge pressure of the pump is 20PSI.

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



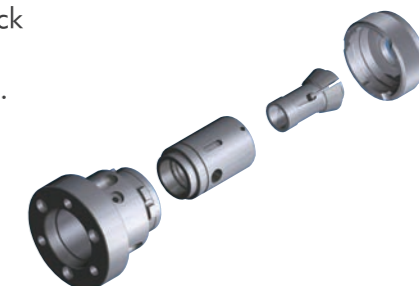
- Fanuc 0i-TD Controller (standard)



- Mitsubishi Controller (optional)



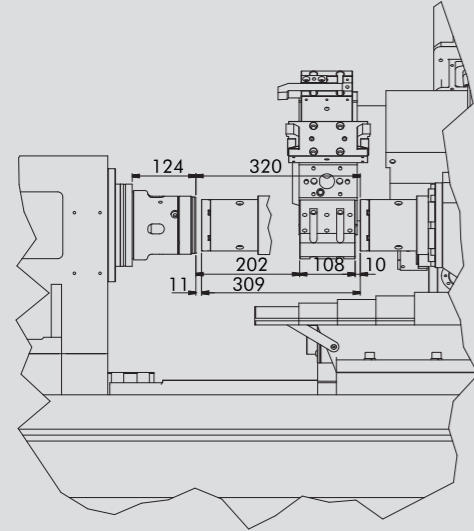
- DIN173E Ø6" hydraulic 3-jaw chuck (optional)
- Max. clamping capacity Ø320 mm.



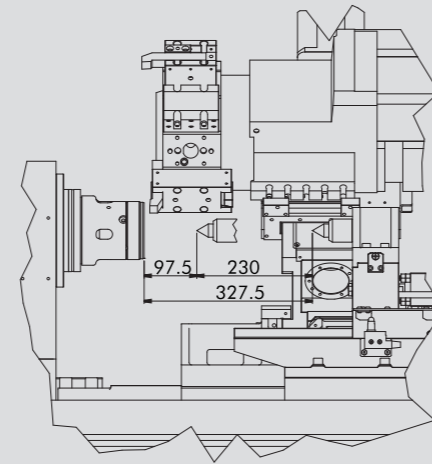
Collet Chuck

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

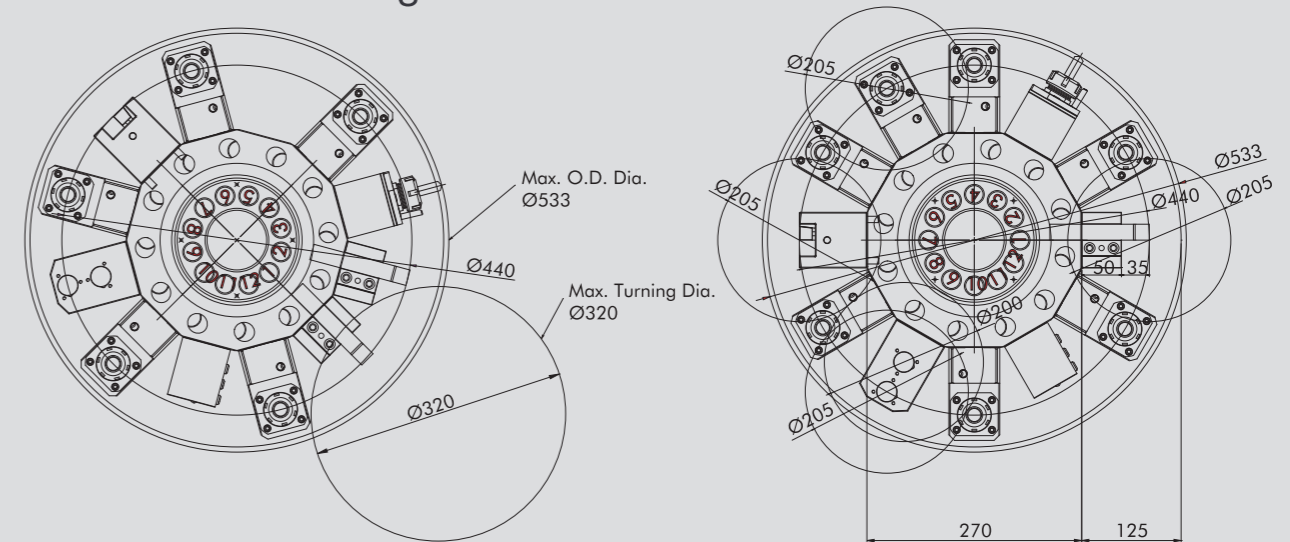
Sub-spindle Travel Range



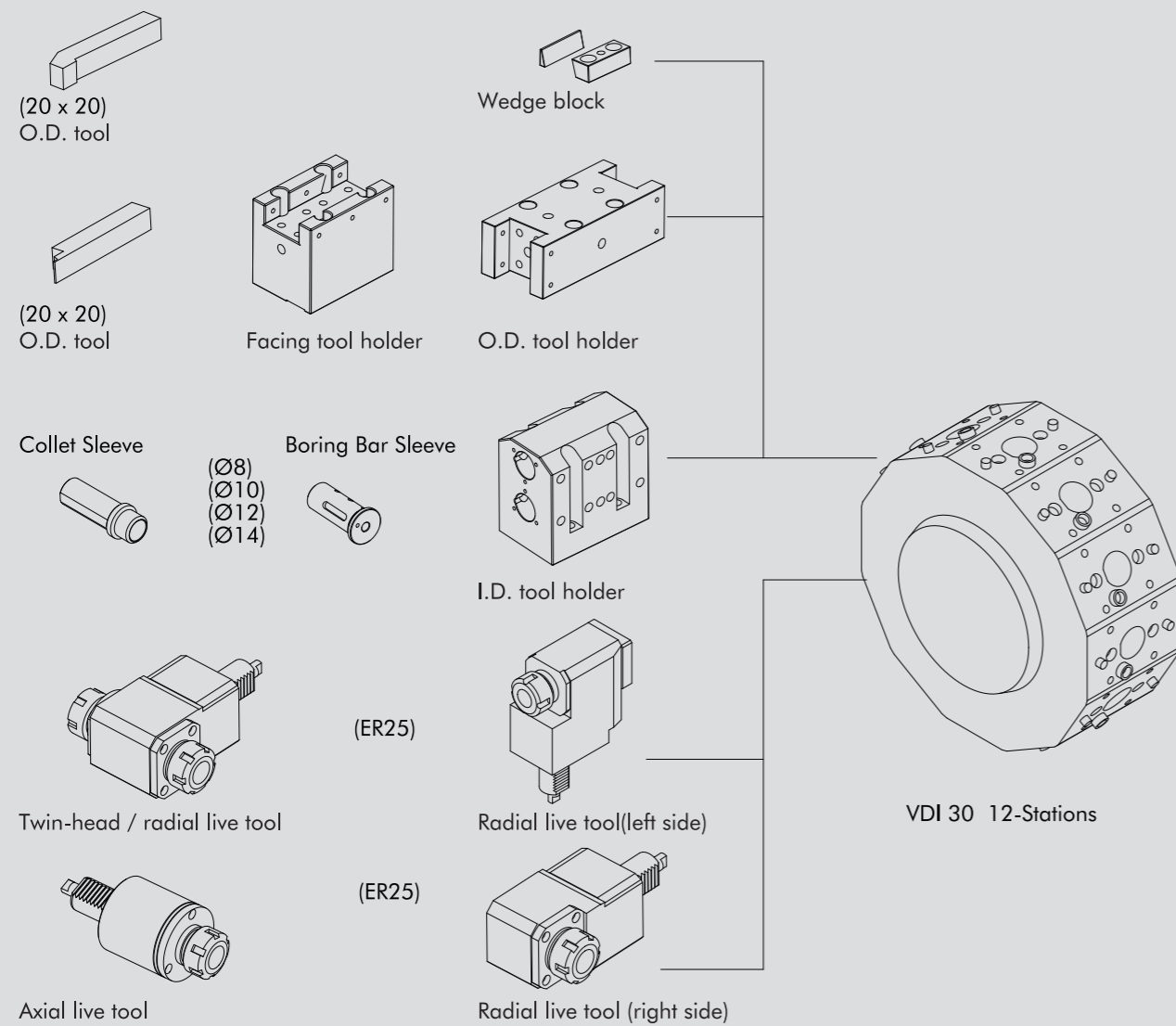
Tailstock Travel Range



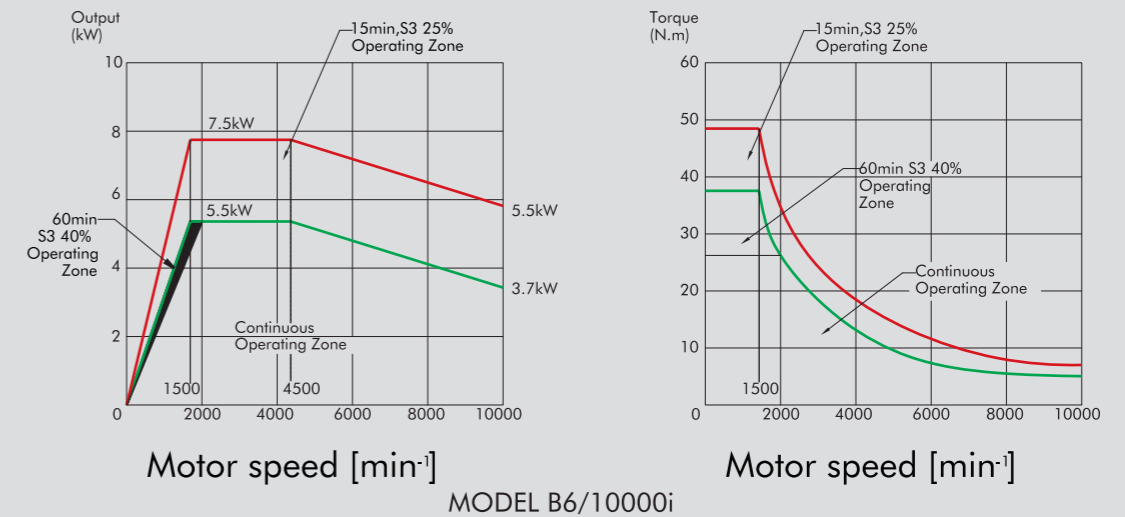
Tool Interference Diagram For Live Turret



Tooling System Diagram



Spindle Speed / Torque Diagram (Fanuc Ac Spindle Motor)



Machine Dimensions

