

Specifications

	Item	Unit	T42DSY	T52DSY	T60DSY
Capacity	Chuck Type	type	DIN173E	DIN177E	DIN185E
	Max. Bar Capacity	mm	Ø42	Ø51	Ø60
	Max. Turning Length	mm	126	156	180
	Max. Turning Diameter	mm	Ø150	Ø150	Ø150
Travel	X1 Axis Travel	mm	150	150	150
	Z1 Axis Travel	mm	300	280	280
	Y1 Axis Travel	mm	±30	±30	±30
	Z2 Axis Travel	mm	300(350)	300	300
	Tailstock Travel	mm	205	205	205
	Tailstock Taper	bore taper	MT3	MT3	MT3
Spindle	Spindle Nose	type	A2-5	A2-6	A2-6
	Spindle Speed	rpm	5000	4000	4000
	Spindle Motor	kw	7.5/11	7.5/11	7.5/11
Sub-Spindle	Sub-Spindle Nose	type	A2-4	A2-4	A2-4
	Sub-Spindle Speed	rpm	6000	6000	6000
	Sub-Spindle Motor	kw	3.7/5.5	3.7/5.5	3.7/5.5
Live Turret	Servo Power Turret	VDI	VDI 30	VDI 30	VDI 30
	No. of Tool Stations	set	12	12	12
	OD Tool Size	mm	20	20	20
	ID Tool Size	mm	25	25	25
	Turret Indexing Time	sec	0.3-0.9	0.3-0.9	0.3-0.9
	Living Tool Spindle Max.	rpm	6000	6000	6000
	Living Tool Spindle Motor	kw	2.2/3.7	2.2/3.7	2.2/3.7
	Turret Servo Motor	kw	0.75	0.75	0.75
Feed Rate	X1 Axis Rapid Traverse	m/min	18	18	18
	Z1 Axis Rapid Traverse	m/min	24	24	24
	Y1 Axis Rapid Traverse	m/min	18	18	18
	Z2 Axis Rapid Traverse	m/min	24	24	24
Dimension	Machine Width	mm	2540	2540	2540
	Machine Depth	mm	1560	1560	1560
	Machine Height	mm	2110	2110	2110
	Machine Weight	kg	3500	3550	3550
	Coolant Tank Capacity	L	215	215	215

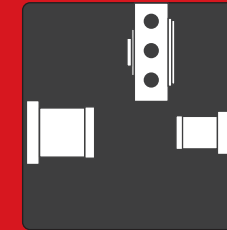
Standard Accessories

- Collet chuck
- 3 color indicator lamp
- Work lamp
- Bar feeder interface
- VDI live turret
- Coolant system
- Auto lubrication system
- Fully enclosed splash guard
- Auto power off
- Heat exchanger for electrical cabinet
- FANUC 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
- 3-jaw chuck
- Coolant detection switch
- Barfeeder
- Mitsubishi controller
- Tailstock

Double Spindle Single Turret Multi-Tasking Turning Center



T42DSY
T52DSY
T60DSY



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MY-TURN T42/52/60DSY

Double Spindle Single Turret Multi-Tasking Turning Center

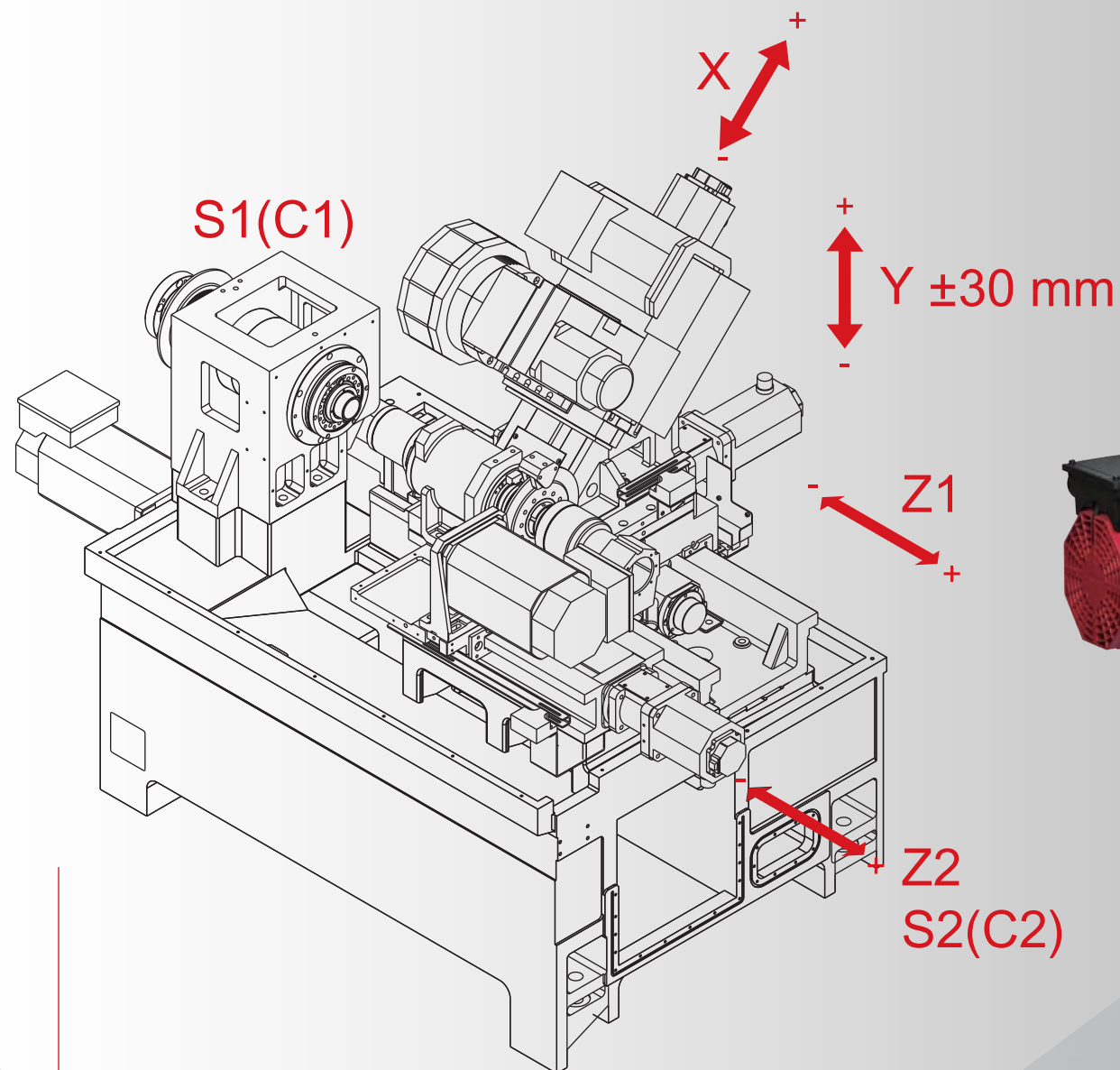


Significantly Reduce Your Machining Time

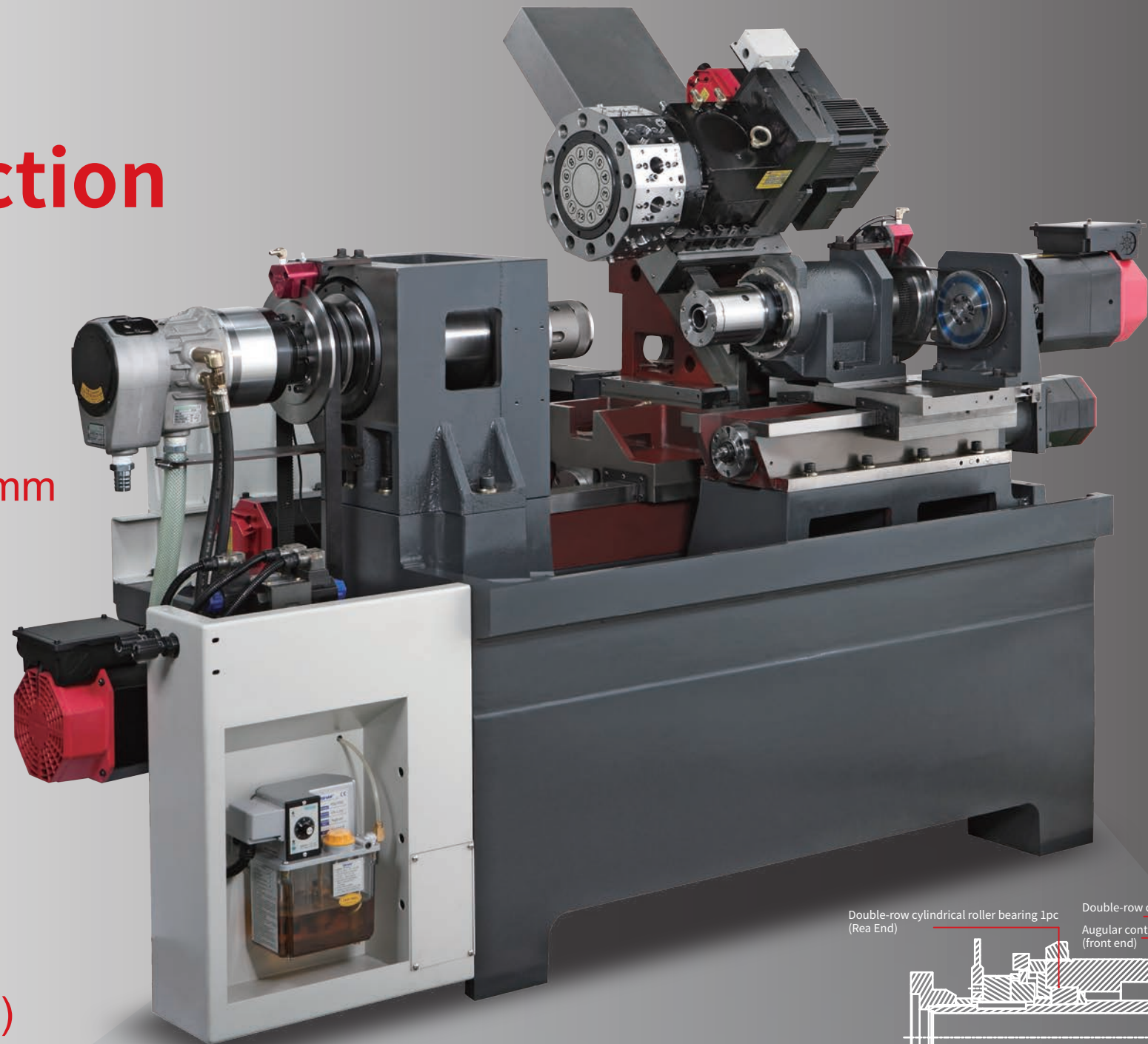
- Twin spindle configuration allows for front and back machining on a part.
- C-axis functions on both main and sub-spindle.
- 12-station live turret permits milling, drilling and tapping efficiently.
- Spindle nose type: 42 type A2-5, 52/60 type A2-6.
- 5,000 RPM high spindle speed.
- High precision spindle accommodates collet chuck and 3-jaw chuck.
- X, Z, Y-axis feed rates: 18/24/18 m/min.
- Chip conveyor is standard equipment.
- Fully-enclosed splash guard.

45° Slant Saddle
Twin Spindle Single Live Turret

Compact Design Highly Rigid Construction

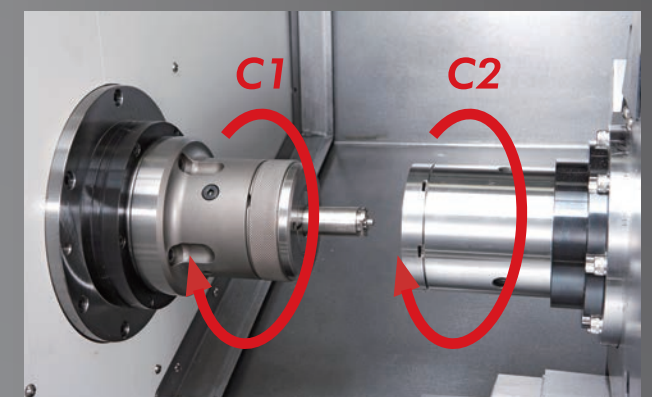
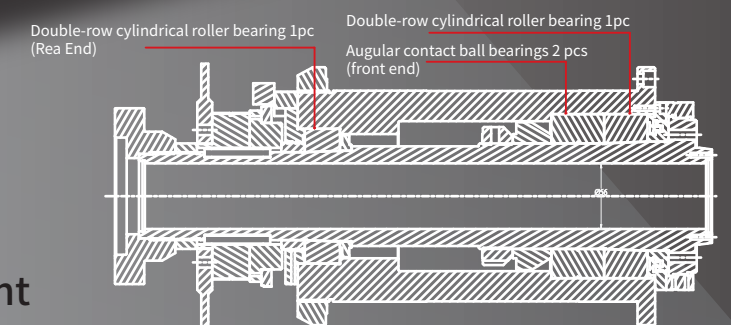


- All structural parts are manufactured from high quality Meehanite cast iron - stress relieved to minimize deformation.
- Massive bed and base construction feature high rigidity and excellent vibration dampening.
- The slideway surface is specially treated and fitted with Turcite-B wear-resistant material to reduce friction.
- 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 is with ± 30 mm travel allows for side milling, drilling and tapping when used together with C-axis is function.



Optimal Spindle Bearings Deployment

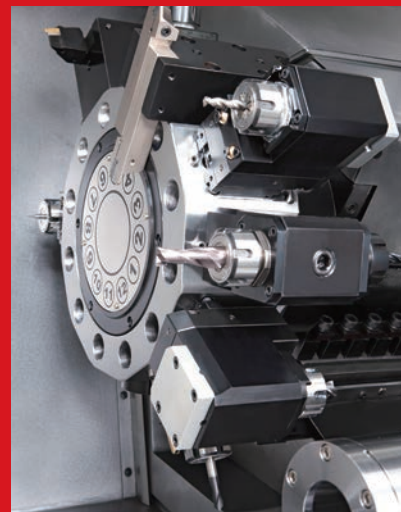
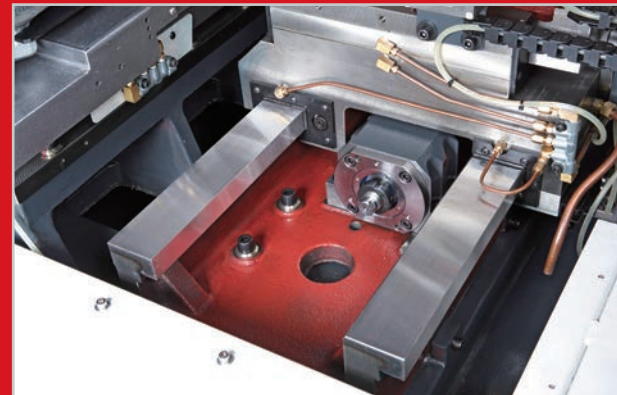
- The main spindle is supported by two angular contact ball bearings and one double-row cylindrical roller bearing at the front end which absorb radial and axial forces.
- A double-row cylindrical roller bearing is located at the rear end of the spindle to ensure stability, rigidity and accuracy.



Quality features for maximum dependability of performance

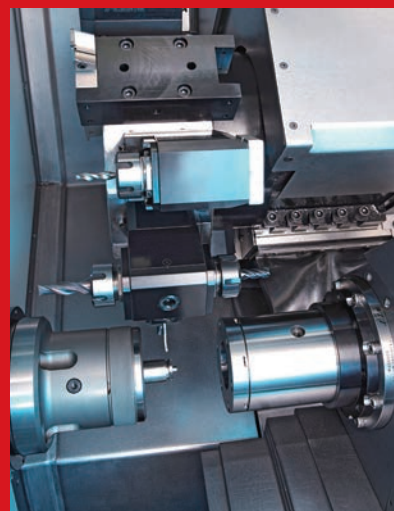
Oversized Box Ways on All Axes

- All axes are box-ways construction combined with a great span for dramatic increase in rigidity and stability.
- The box-type slideways are specially treated and lined with Turcite-B wear-resistant material, making the machine more suitable for heavy-duty cutting.
- Thickness of box ways is 25% bigger than that of previous model with greater rigidity.



VDI 30 12-Position Live Turret

- Driven by 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

Tool Setter Arm (optional)

- The tool setter arm assists users in quickly setting tool positions and enables rapid production startup.

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

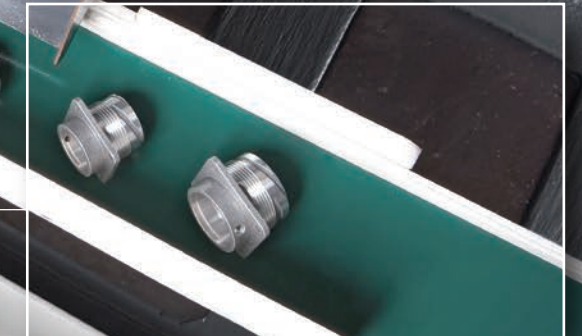
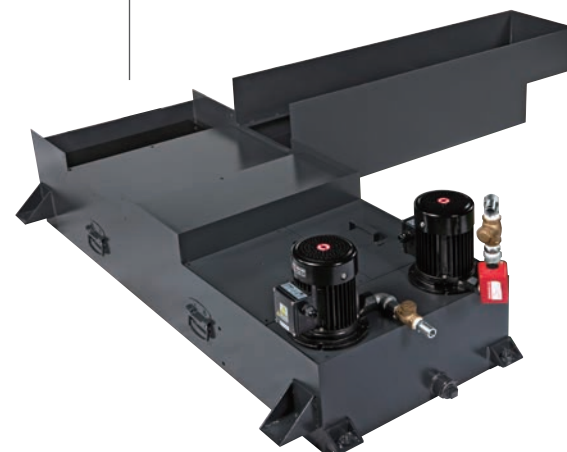
- This machine employs a high/low pressure coolant pump. The high pressure pump delivers powerful coolant to the turret, while the low pressure pump delivers coolant to the spindle.
- The discharge pressure of the pump is 20PSI.

Large Coolant Flow

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

Separation Coolant Tank

- The coolant tank is designed for convenient cleaning. Also, it prevents coolant deterioration and odor.



Various Types of CNC Controllers for Selection



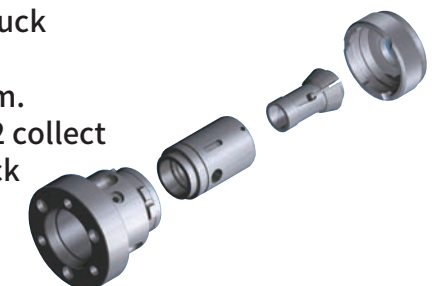
- Fanuc Controller (standard)



- Mitsubishi Controller (optional)



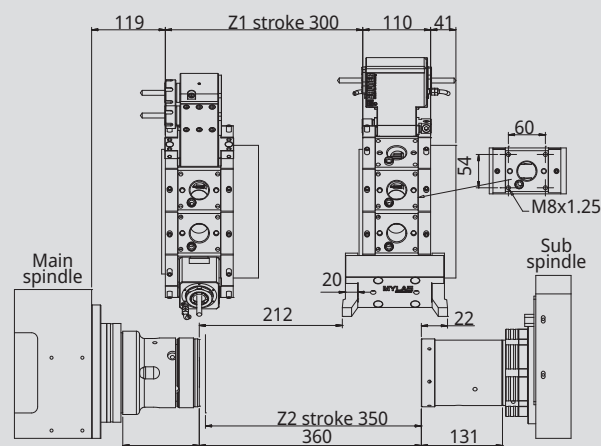
- DIN 173E Ø6" hydraulic 3-jaw chuck (optional)
- Max. clamping capacity Ø150 mm.
- Sub-spindle is designed with #42 collect chuck or 5" hydraulic 3-jaw chuck (optional)



Collet Chuck

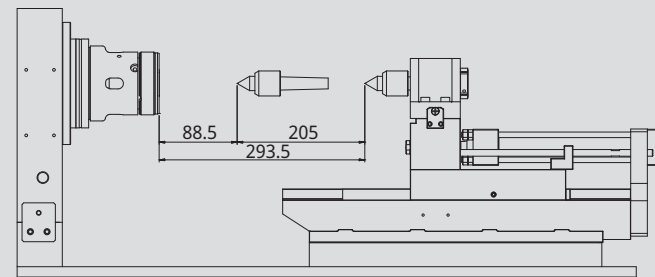
- The spindle is mounted with a collet chuck, allowing fast chucking for bar work pieces.
- Applicable collet type is DIN 173E.

Sub-spindle Travel Range (42 Type)

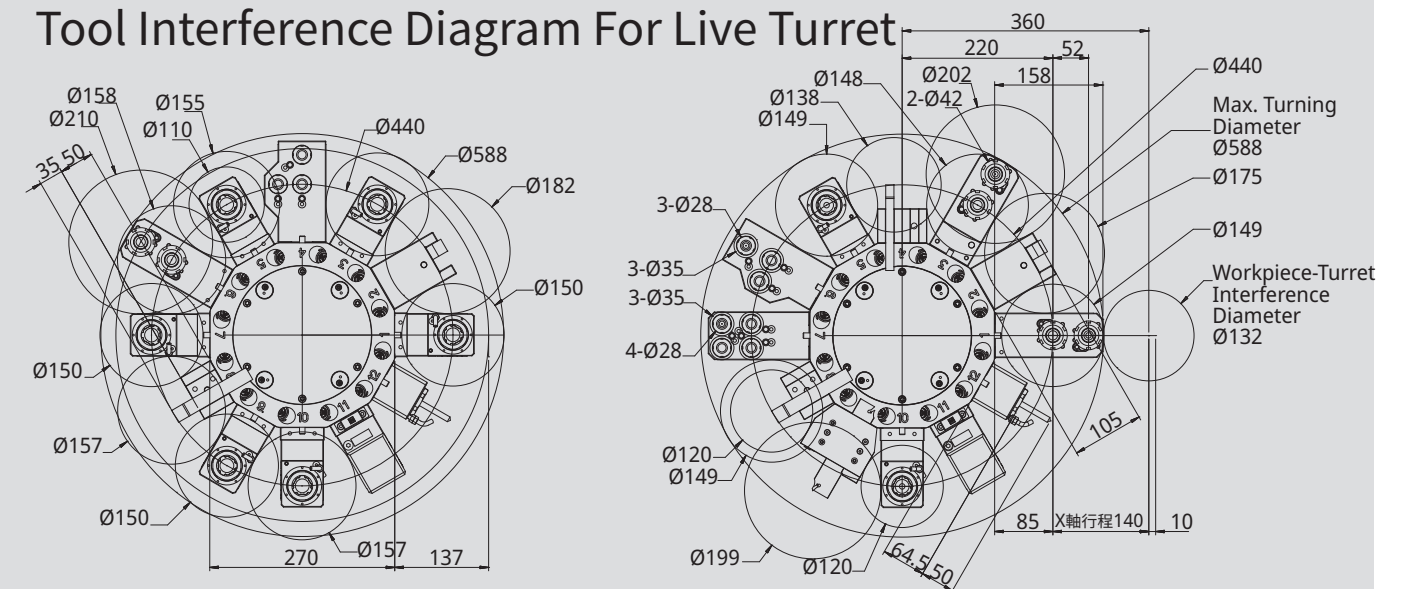


Tailstock Travel Range

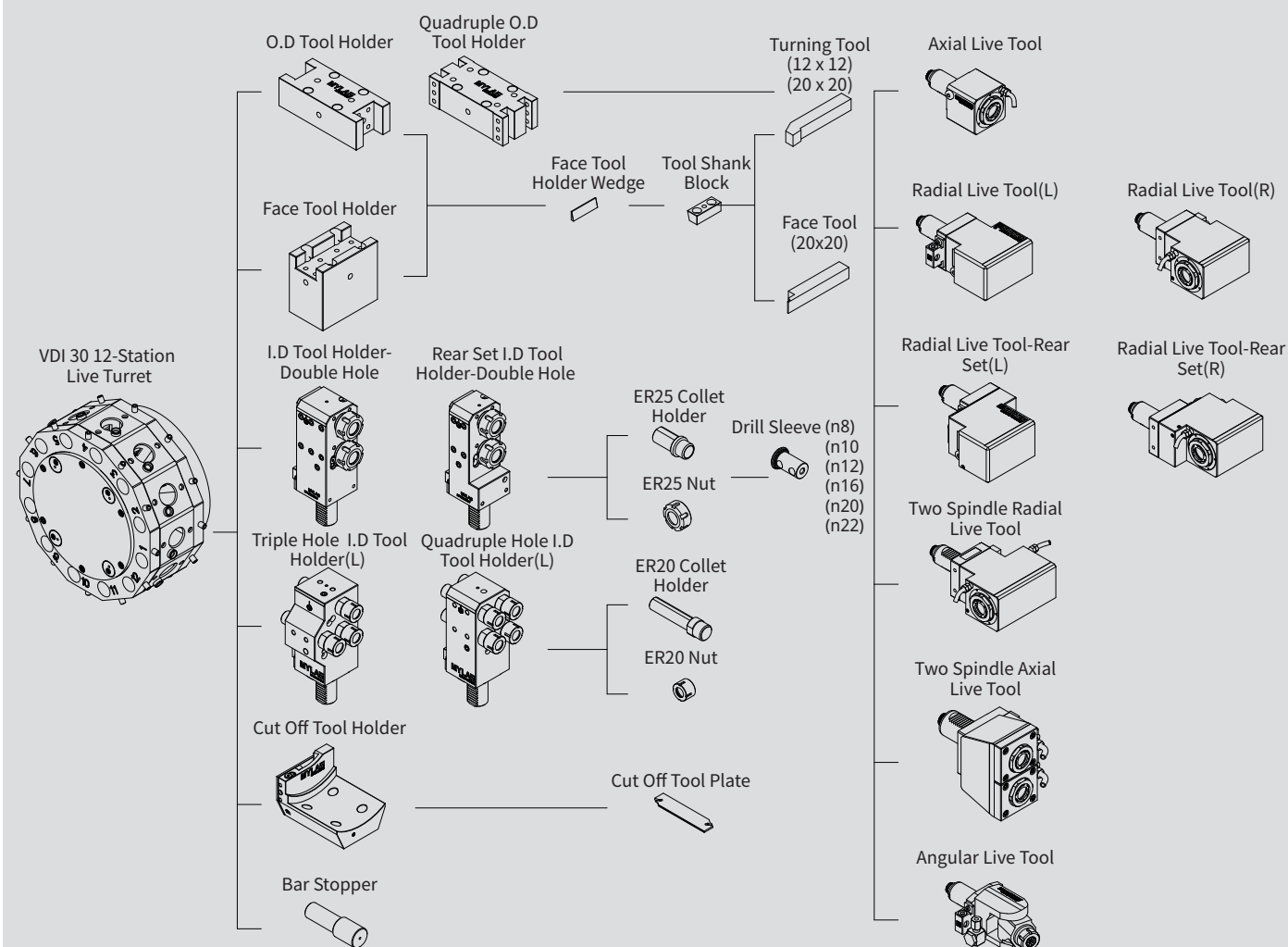
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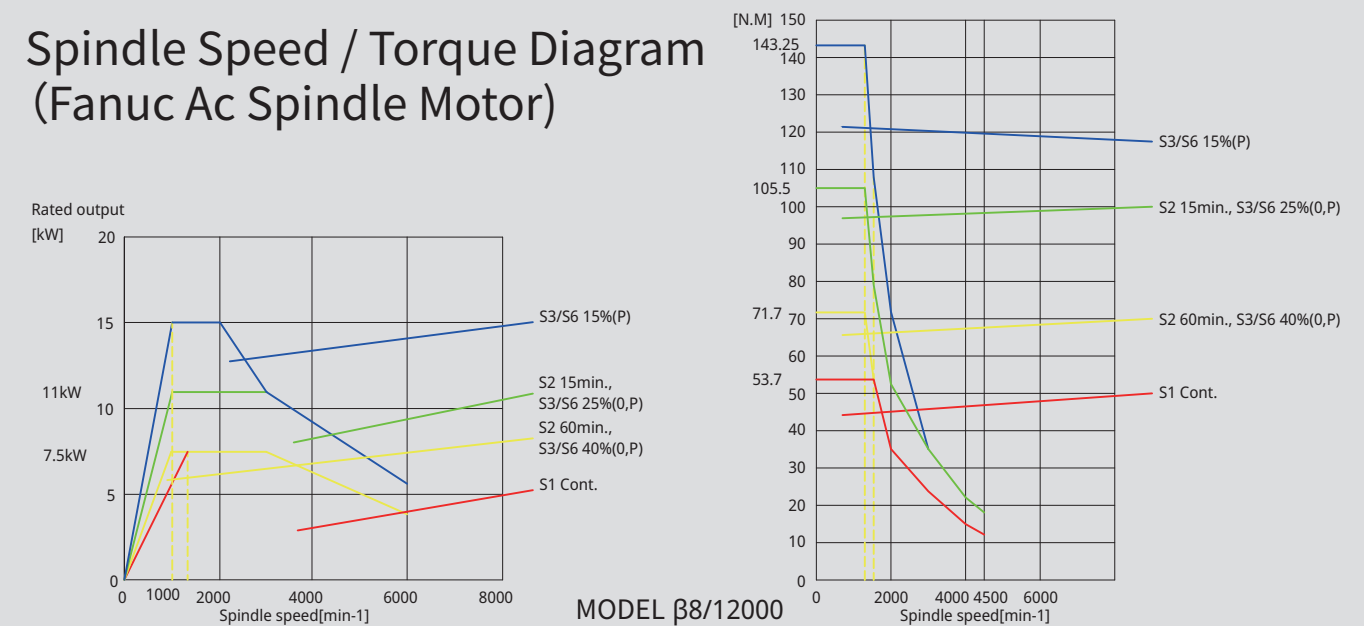
Tool Interference Diagram For Live Turret



Tooling System Diagram



Spindle Speed / Torque Diagram (Fanuc Ac Spindle Motor)



Machine Dimensions

