MY-TURN T42DSY Specifications

	Item	Unit	T42DSY	T52DSY	T60DSY
Capacity	Swing over saddle	mm	400	400	400
	Chuck diameter	inch	6	8	8
	Bar capacity	mm	42	50.8	60
	Max. turning length	mm	200	285	285
	Max. turning diameter	mm	150	150	150
	Max. turning bar diameter	mm	42	50.8	60
Travel	X1 axis travel	mm	150	150	150
	Z1 axis travel	mm	300	280	280
	Y1 axis travel	mm	±35	±30	±30
	Z2 axis travel	mm	300	300	300
Spindle	Spindle nose	type	A2-5	A2-6	A2-6
	Chuck size	inch	6	8	8
	Draw tube intemal-Φ	mm	45	52	62
	Spindle speed	rpm	60~5000	60~4000	60~4000
	Spindle motor type	type	Flenge	Flenge	Flenge
	Spindle motor	kw	5.5/7.5	7.5/11	7.5/11
Sub-spindle	Sub-spindle nose	type	A2-4	A2-4	A2-4
	Chuck size	inch	5	5	5
	Draw tube intemal-Φ	mm	34	34	34
	Sub-spindle speed	rpm	60~5500	60~5500	60~5500
	Sub-spindle motor type	type	Flenge	Flenge	Flenge
	Sub-spindle motor	kw	3.7/5.5	3.7/5.5	3.7/5.5
Live Turret	Servo powered turret	VDI	VDI/30	VDI/30	VDI/30
	No. of tool stations	set	12	12	12
	Tool size (square)	mm	20	20	20
	I.D. of boring bar holder	mm	25	25	25
	Turret indexing time	sec	0.3~0.9	0.3~0.9	0.3~0.9
	Live tool motor	kw	2.2/3.75	2.2/3.75	2.2/3.75
	Index Motor	kw	0.75	0.75	0.75
Feed Rate	X1 axis rapid traverse	min	18	18	18
	Z1 axis rapid traverse	min	24	24	24
	Y1 axis rapid traverse	min	18	18	18
	Z2 axis rapid traverse	min	24	24	24
Dimensions	Machine width	mm	2530	2530	2530
	Machine depth	mm	1500	1500	1500
	Machine height	mm	1720	1720	1720
	Coolant tank capacity	L	160	150	150
	Controller type		Fanuc /Mitsubishi		

• 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 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 Controller
- Tail Stock

MYLAS

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MY-TURN T42DSY

Mill-turn Multitasking Turning Center

www.mym.com.tw

Twin Spindle Single Live Turret 45° Slant Saddle

MY-TURN T42DSY

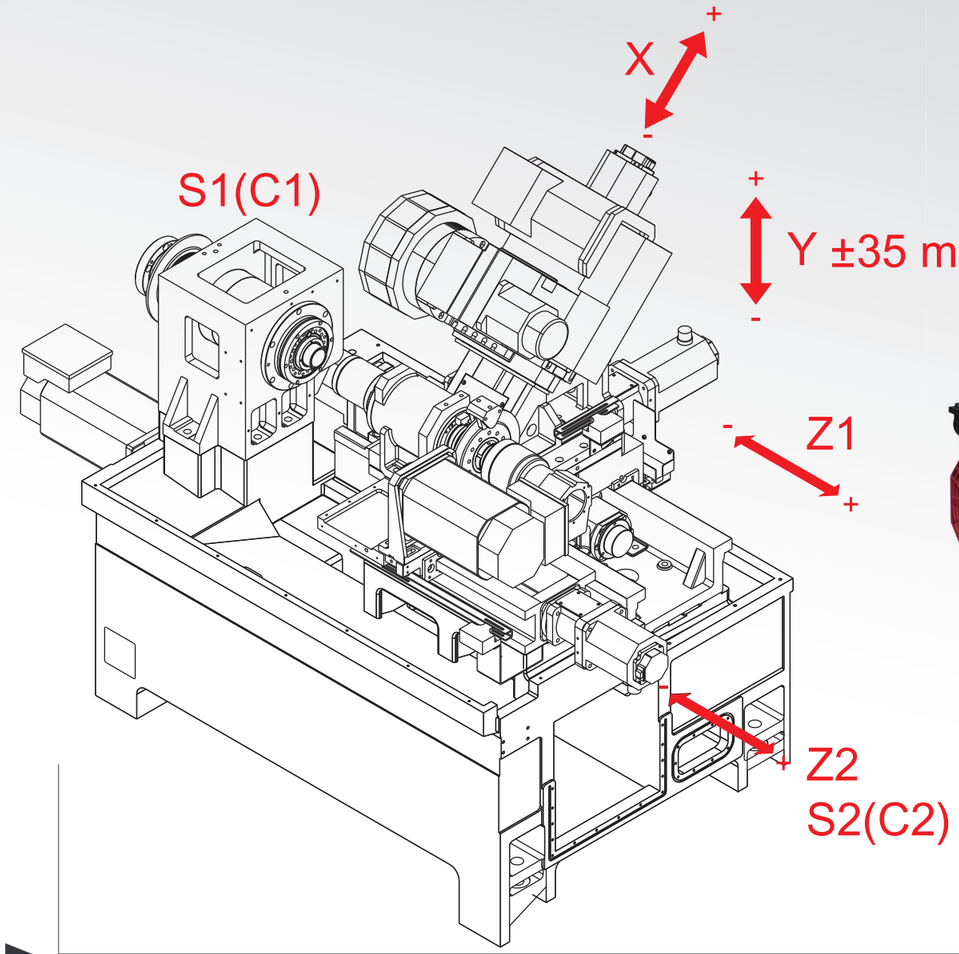
Mill-turn Multitasking Turning Center

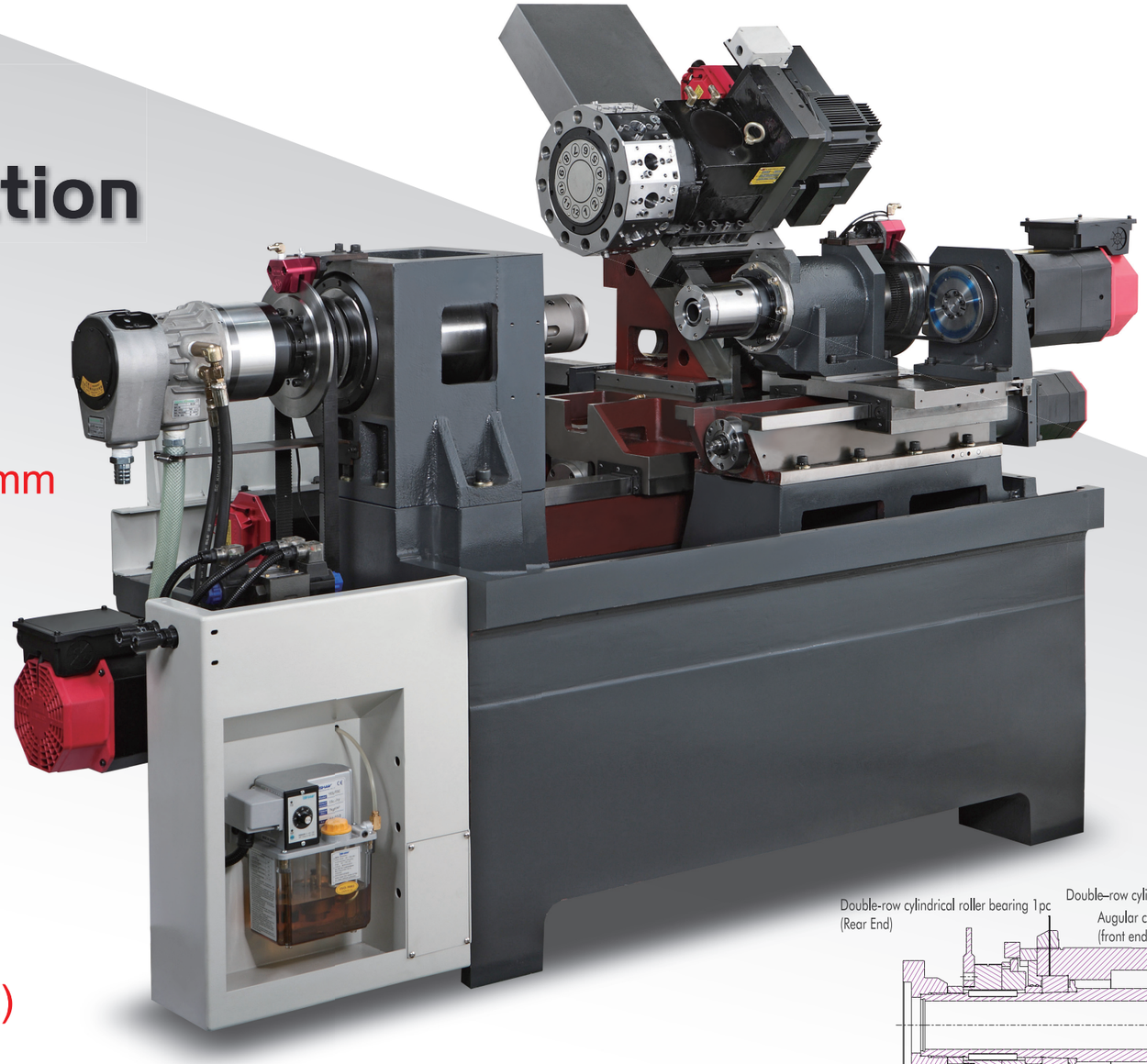
Significantly Reduce Your Machining Time

- 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.
- 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

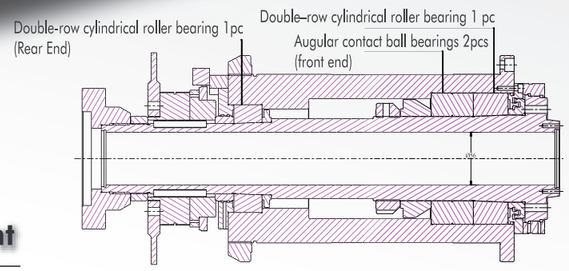


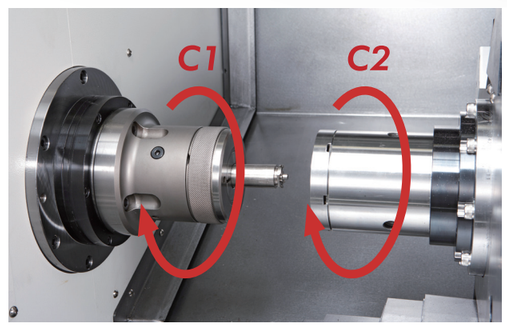


- All structural parts are manufactured from high quality Meehanite cast iron – stress relieved to minimize deformation.
- Massive bed and base construction feature high rigidity and excellent vibration dampening.
- Box ways on X, Y, Z1, Z2-axis.
- Specially treated way surfaces without need of Turcite-B coating.
- 45° slant saddle.
- Box ways thickness is increased by 25%.
- Class C3 ball screws on X, Z-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.

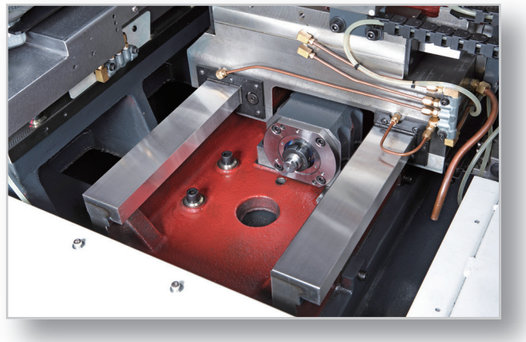


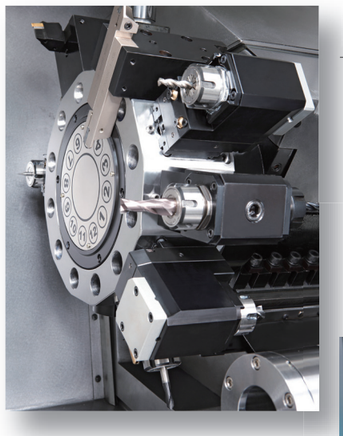


Quality features for maximum dependability of performance

Oversized Box Ways on All Axes

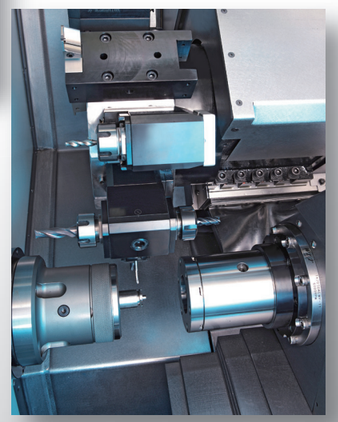
- All axes are box-ways construction combined with a great span for dramatic increase in rigidity and stability.
- Way surfaces are specially treated to eliminate the use of Turcite-B making the machine excellent for heavy cutting.
- Thickness of box ways is 25% bigger than that of previous model with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

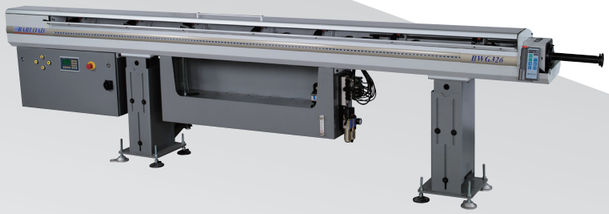
45° Slant Saddle

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

Raising machining performance and versatitlity

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.



Parts Catcher (optional)

- The parts catcher provides convenient and efficient parts collection.

Bar Feeder (optional)

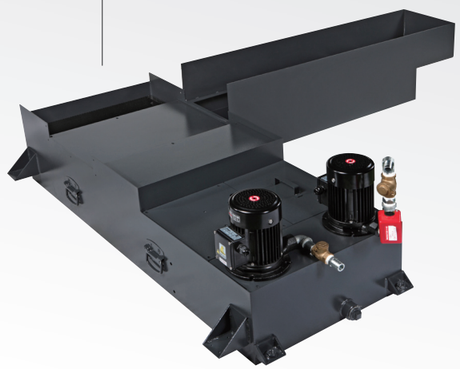
- The optional bar feeder allows the lathe to perform fully automatic operations. This results in a reduction of labor costs, while dramatically upgrading production efficiency.

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

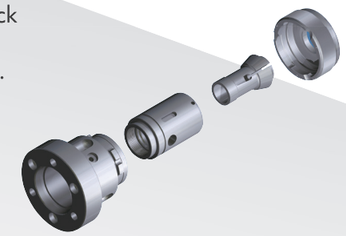
- The coolant tank is designed with oil separation for convenient cleaning. Also, it prevents coolant deterioration and odor.

Various Types of CNC Controllers for Selection

- Fanuc 0i-TD Controller (standard)

- Mitsubishi Controller (optional)

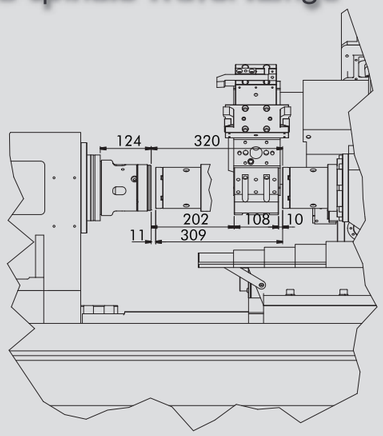
- DIN161E Ø6" hydraulic 3-jaw chuck (optional)
- Max. clamping capacity Ø320 mm.



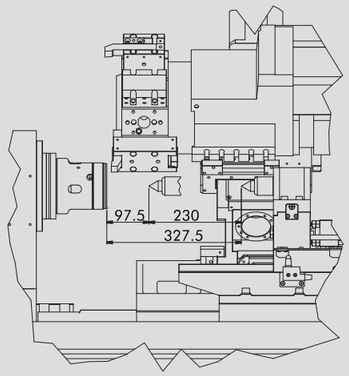
Collet Chuck

- The spindle is mounted with a collet chuck, allowing fast chucking for bar workpieces.
- Applicable collet type is DIN161E.

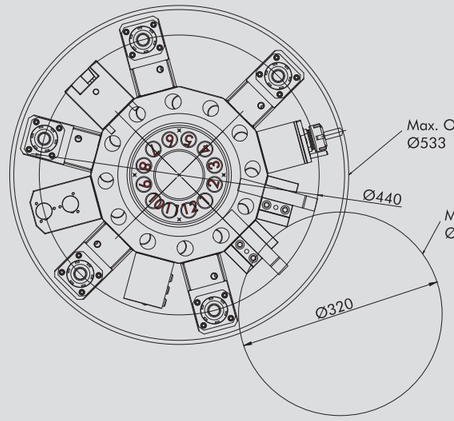
Sub-spindle Travel Range

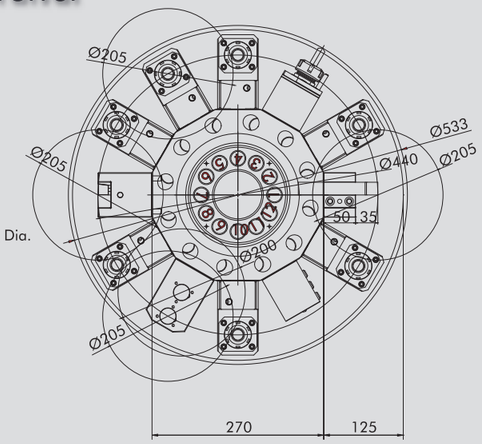


Tailstock Travel Range

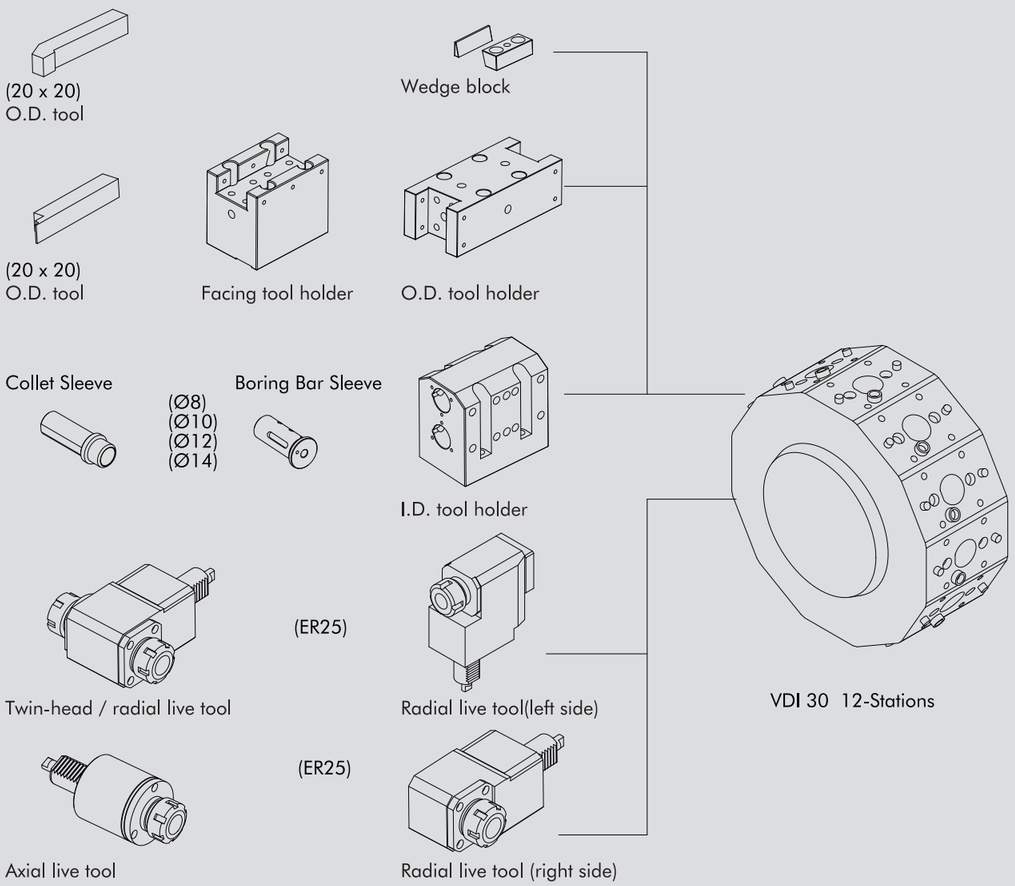


Tool Interference Diagram For Live Turret

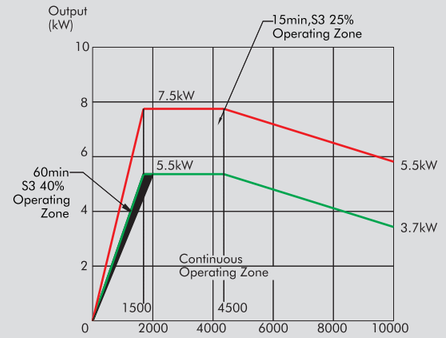


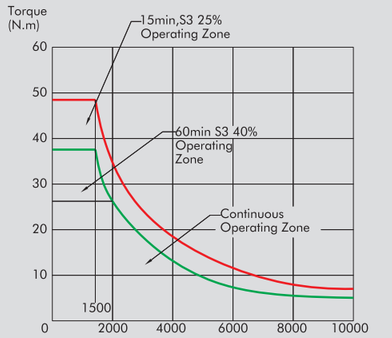


Tooling System Diagram



Spindle Speed / Torque Diagram (Fanuc Ac Spindle Motor)





MODEL B6/10000i

Machine Dimensions

Unit: mm