

MACHINE SPECIFICATIONS

MODEL		TR-56S	TR-563S
TRAVEL	X-Travel	mm	560
	Y-Travel	mm	400
	Z-Travel	mm	400
	Spindle Nose to Working Table	mm	150 ~ 550
TABLE	Table Size	mm	600x425 (Number of Work Table: 2 per Table)
	Max. Loading Capacity	kgs	200 per Table
	T Slots	mm	M12
SPINDLE	Spindle Speed	rpm	8000
	Max. Tapping Speed	rpm	3000
	Spindle Taper		7 / 24 NO.40
	Transmission		Direct Drive
FEED RATE	Rapid Traverse (G00)	m/min	48 / 48 / 48
	Machining Speed (G01)	mm/min	10000
ATC SYSTEM	Tool Shank		BT#40
	ATC Type		Arm type
	Magazine Capacity		24+1
	Max. Tool Length	mm	250
	Max. Tool Diameter	mm	80
	Max. Tool Weight	kgs	4
	Tool Change Time	Sec.	2.0
	Chip To Chip	Sec.	5.5
MOTOR	X-axis	kw	2.2(Mitsubishi) / 1.8(Fanuc)
	Y-axis	kw	2.2(Mitsubishi) / 1.8(Fanuc)
	Z-axis	kw	3.0(Mitsubishi) / 2.5(Fanuc)
	Spindle	kw	7.5 / 5.5
MACHINE SPECIFICATIONS	W x D x H	mm	2320x3328x2617
	N.W.	kgs	5500
OPTIONAL ACCESSORIES	High speed spindle upgrade	10K	12K
	Extra low inertia spindle motor (Mitsubishi)		△
	Motor power upgrade	11 kw	5.5kw
	Table T slots 14mm		△
	Connection for Table-Hydraulic		△
	Three axis linear scale		△
	Scraper or Filter type chip conveyor(rear)		△
	Z axis travel 120mm		×
	High pressure coolant through spindle		△
	Automatic tool length measurement with breakage detection		△
4th axis rotary table (single or dual)		△	
Transformer, voltage regulator		△	

● All specifications, dimensions and design characteristics are subject to change without notice.

○:Standard △:Optional X:Not available

STANDARD ACCESSORIES

- Spindle air blow device.
- Each PL lamp for work area and setup area.
- Tool coolant system and high flow chip flushing system.
- Pressure detected automatic lubrication system and high efficiency lubrication oil filter.
- Dual-color LED alarm light.
- One-piece dual layer insulated electric cabinet.
- Tool kits and tools.
- Table with twin work area.
- Independent air connection for each work table.



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TR-56S series CNC VERTICAL MACHINING CENTER

A New Standard of High Speed
High Precision Machining

Perfect Structure Design! High Speed Without Vibration!

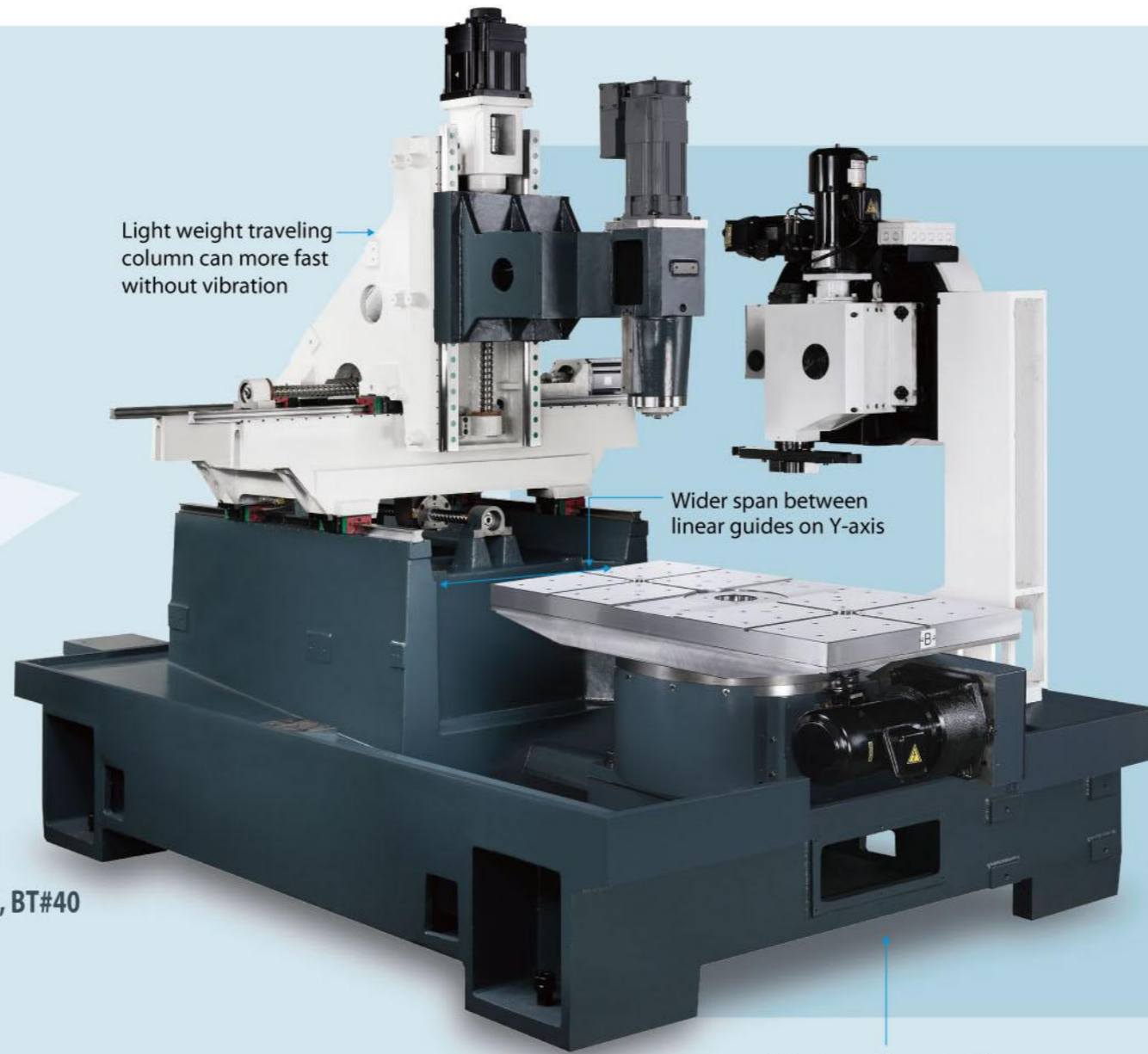
3-Axis Roller Linear Ways Extra Smooth Movement! Maximum Stability!

- All structural elements are manufactured from Meehanite cast iron with thorough stress relief. This feature creates outstanding structure without deformation.
- 3-axis slideways are equipped with HIWIN roller type linear guide ways.
- 3 moving axes on traveling column leaves the automatic pallet changer to be extra stable.
- Traveling column, oversized base and lightweight moving parts permit high speed travel without vibration.
- Oversized one-piece casting base with extra large span between slideways ensures extremely smooth movement of Y-axis.
- The extra large casting base becomes a raised up platform so moving parts are situated higher and the distance between the spindle nose and the blocks on linear ways are shortened. This design results in optimal rigidity during cutting.

Light weight traveling column can move fast without vibration

Wider span between linear guides on Y-axis

Extra large base providing stable support for Y-axis



- **Standard spindle speed**
10000 rpm (BT#30)
8000 rpm (BT#40)
- **Rigid tapping**
4000 rpm (BT#30)
3000 rpm (BT#40)
- **Rapid traverse**
48/48/48 m/min (X/Y/Z)
- **Spindle tapper BT#30, BT#40**
- **High speed tool change (tool to tool)**
1.8 Sec. (BT#30)
2.0 Sec. (BT#40)
- **Direct-drive spindle**

Efficient Magazine

- Standard loading capacity of the magazine is 24 tools. For BT#30 tool shank, the loading capacity is 20 tools. The use of hydraulic tool releasing system features high stability. Tool change is quickly accomplished with smooth tool change motion.



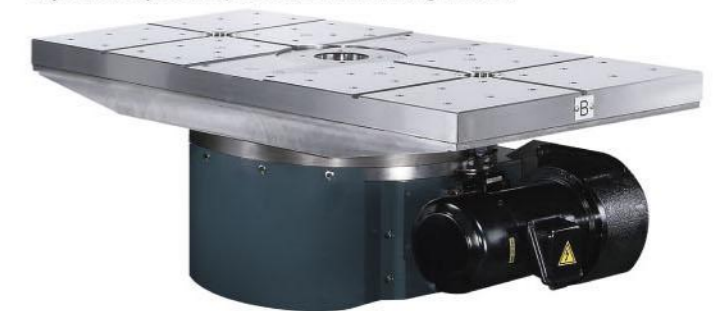
Standard Fully-Sealed Electric Cabinet

- In compliance with CE standards, the electric cabinet is equipped with rubber fitting around the opening such design ensures consistent condition within the electric cabinet to extend the lifetime of the electrical components.



Precise, Fast Pallet Change

- The high precision pallet change is achieved through a 3-piece coupling positioning mechanism.
- The pallet change is fully electric driven combined with cam indexing. Pallet change is quickly accomplished in only 4 seconds with maximum stability.
- Each work area can be equipped with one set of air system (hydraulic system optional) for mounting fixture.

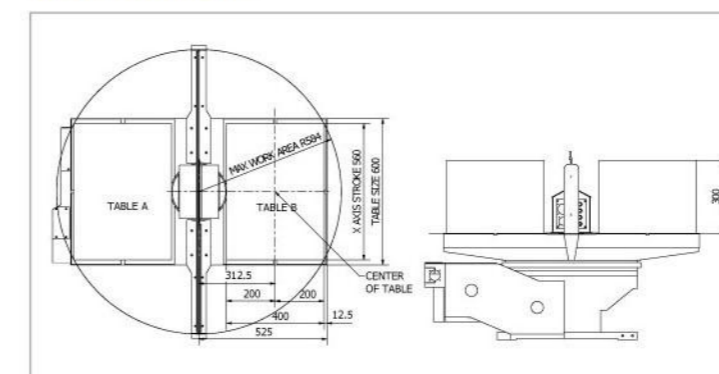


Control Specifications

	Mitsubishi			Fanuc
	M70-VB	M70-VA	M720-VS	Oi-MD
CPU	64 bit			32 bit
Max. Controlled Axes	5	8	8	7
Max. Simultaneous Axes	4	4	4	4
Program Storage Length	512K	512K	512K	320K
Macro Variables Common	400	400	400	600
Tool Offset Sets	200	200	200	200
Conversational Programming	○	○	○	○
Display	8.4" TFT LCD		10.4" TFT LCD	8.4" TFT LCD
Multi-Language Display	○			○
Servo System with ABS Encoder	○			○
Memory Card	○			○
Ethernet	○			○
High Speed And Accuracy Machining Code	G05.1 Q1	G05 P10000	SSS	G05.1 Q1
RS-232 Interface	○			○
Toolpath Simulation	○		3D	○
Handwheel Feed Program Simulation	○			×
Program Buffer Correction	○			×

○ : Standard × : None

Work Table Size



Dimensions

