

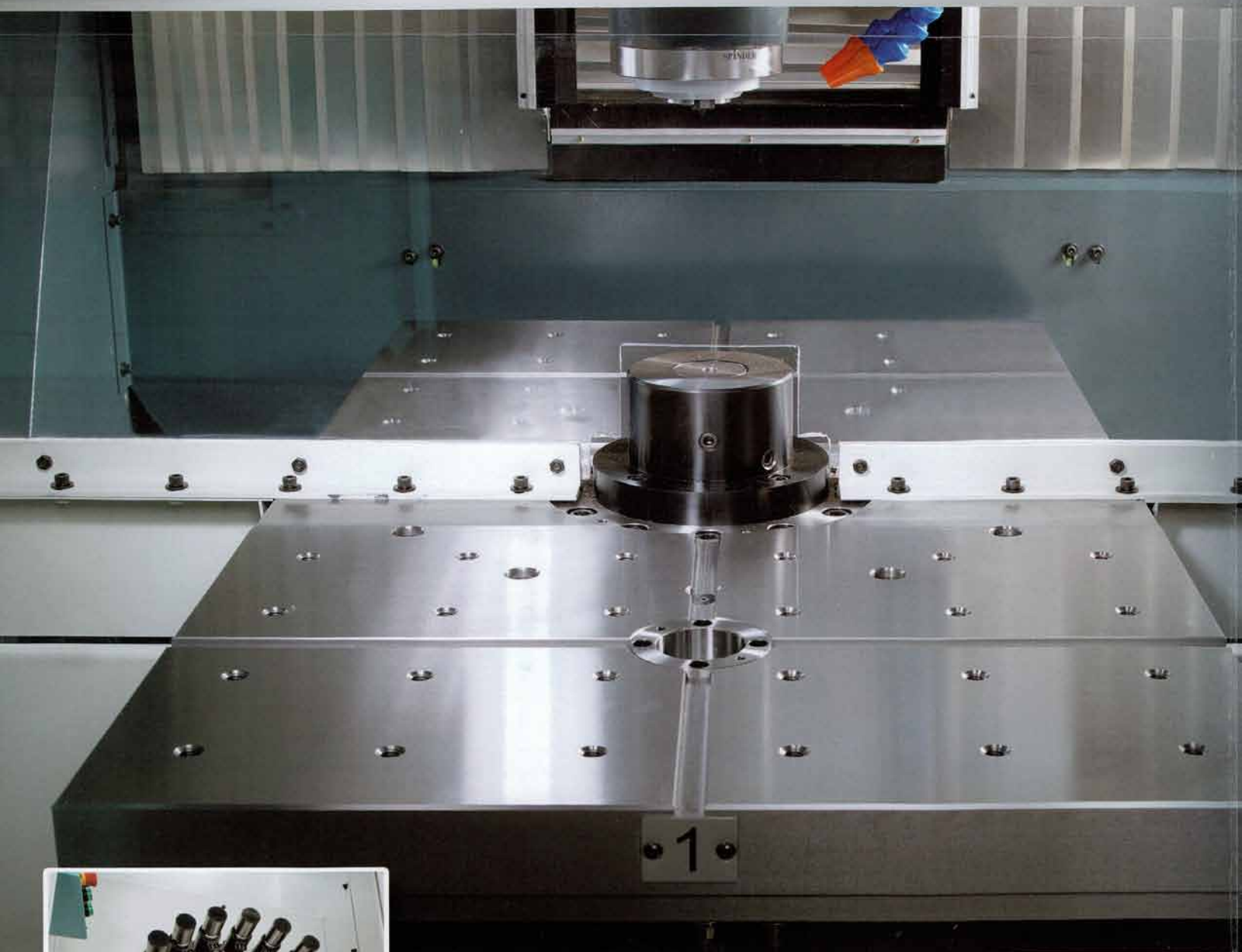
TR-56S

**A New Standard of High Speed
High Precision Machining**



CNC VERTICAL MACHINING CENTER

- Standard spindle speed 10,000 rpm (BT#30)
8,000 rpm (BT#40)
- Three axes rapid traverse 48/48/48 m/min
- High speed tool change (tool to tool)
1.6 seconds (#30), 1.8 seconds (#40)
- Rigid tapping 4,000 rpm (BT#30)
3,000 rpm (BT#40)
- Spindle tapper BT#30, 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.



Control Panel User-friendly Operational Control!

- The control panel design meets human engineering theorem and CE regulations, and is easy to operate.
- A separated control panel is provided between working area and magazine operation area for added convenience of operation.



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 conditions within the electric cabinet so that extend lifetime of the electric components.

Perfect Structure Design!

High Speed without Vibration!

Three Axes Roller Linear Ways Extra Smooth Movement! Maximum Stability!

- All structural parts are manufactured from Meehanite cast iron with thorough stress relief. This features outstanding of structure without deformation.
- Three axes slideways are equipped with HIWIN roller type linear guide ways.
- Traveling column, oversized base and light moving parts permit high speed travel without vibration.
- Stable automatic pallet change. Fully traveling column on 3 axes. One-piece constructed oversized base provides extra large span between slideways, Ensuring extremely smooth movement of Y-axis. X-axis acceleration / deceleration is over 1G without vibration.
- The increased height of moving parts shortens the distance from the spindle nose to blocks on 3 axes linear ways. This results in optimal rigidity during cutting.



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.
- The machine is provided with a rotary cylinder. Each working area can be equipped with one set of air system (hydraulic system optional) for mounting jig.



High Speed, High Precision Spindle

- Choice of BT#30 and BT#40 spindles. Each model is mounted with a direct-drive spindle, featuring low noise, low vibration and high performance.
- Choice of spindle speed from 10,000 rpm to 24,000 rpm to meet various cutting requirements.
- Available to use spindle motor with extra low inertia for minimum acceleration / deceleration time. Spindle running from 0 to 15,000 rpm only needs 0.65 seconds, significantly increasing tapping efficiency.

MACHINE SPECIFICATIONS

		Unit	TR-56S	TR-563S
Axis	X-axis	mm	560	
	Y-axis	mm	400	
	Z-axis	mm	400	
	Spindle Nose to Working Table	mm	150 ~ 550	
Working Table	Table Area	mm	600 x 425 x 2PCS	
	Max. Load	kgs	200 x 2PCS	
	T Slots	mm	M12	
Spindle	Spindle Speed	rpm	8000	10000
	Max. Tapping Speed	rpm	3000	4000
	Spindle Taper		7/24 NO 40	7/24 NO 30
	Transmission		Direct Drive	
Traverse	Rapid Traverse (G00)	m/min	48 / 48 / 48	
	Machining Speed (G01)	mm/min	10000	
Magazine	Tool Shank		BT#40	BT#30
	ATC		Arm-type	
	Magazine Capacity		24 + 1	20 + 1
	Max. Tool Length	mm	250	200
	Max. Tool Diameter	mm	80	80
	Max. Tool Weight	kgs	4	3
	Tool Change	TOOL TO TOOL	1.8	1.6
	Time	CHIP TO CHIP	2.2	2.0
Motor	X-axis	kw	2.3	
	Y-axis	kw	2.3	
	Z-axis	kw	3.0	
	Spindle	kw	7.5 / 5.5	3.7 / 2.2
Dimensions	W x D x H	mm	2320x3328x2617	2185x3328x2617
	N. W.	kgs	5500	5300

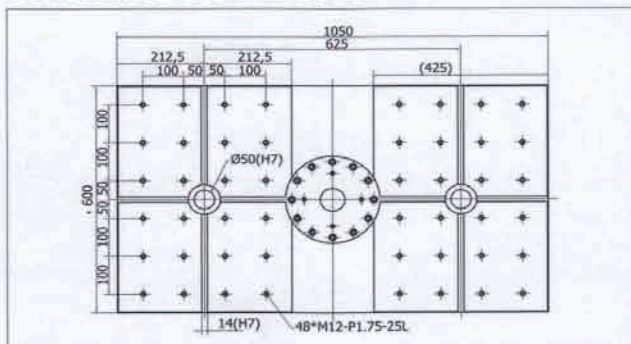
STANDARD ACCESSORIES

- Spindle air blow device.
- Double PL lights for working area and parts change area.
- Tool coolant system and big flow chip flushing system.
- Pressure detected automatic lubrication system and precision lubrication oil filter.
- LED high brightness dual-color alarm light.
- One-piece double layer heat isolated electric cabinet includes heat exchanger.
- Tool kits and tools.
- Table with twin working area.
- Pneumatic type table distributor. Each working area is equipped with one set of air circuit.

OPTIONAL ACCESSORIES

- High speed spindle BT#40, 15000 rpm.
BT#30, 24000 rpm.
- Extra low inertia spindle motor.
- Increase motor power.
- High pressure coolant through spindle.(20 BAR)
- Automatic tool length measurement with breaking detection.
- 4th axis rotary table (for both working tables also).
- Thermal compensation system.
- Transformer, regulator.

WORKING TABLE SIZE



DIMENSIONS



CONTROL SPECIFICATIONS

	Mitsubishi		Fanuc
	M70-VA	M70-VB	0i-MD(B)
CPU	64 bit		32 bit
Max. controlled axes	8	5	5
Max. simultaneous axes	4	4	4
Program storage length	256K		128K
Macro variables common	400	400	400
Tool offset sets	200	200	200
Conversational programming	○	○	○
Multi-language display	○	○	○
Memory card front-loading	○	○	○
Ethernet	○	○	○
High speed and accuracy machining code	G05 P10000	G05.1 Q1	G05.1 Q1
RS-232 interface	○	○	○
Program route simulation	○	○	○
Handwheel feed program simulation	○	○	X
Program buffer correction	○	○	X

O:Standard X:None

Agent: