

The machining is equipped with a Mitsubishi M70-AV control (standard) for higher speed and accuracy. An internet interface (front mounted CF card slot & USB port device) is provided for increased safety and convenience during machining.



Attentive in-process management, combined with rigorous quality inspection, equates to maximum operational dependability.

- High speed DI/DO renewing cycle High Speed synchronized tapping OMR-DD
- NC Memory Capacity 1280m (Std.) Memory capacity 5120m (Opt.)
- Navi Mill Programming Function
- High speed, high accuracy control Mode II: G05P10000 (33M/min)
- Max. ladders of PLC 32,000
- Pre-read single block capacity (numbers of single blocks), for high speed, high accuracy machining G05P10000 (330 single blocks)

## SPECIFICATION

ITEM	Model	Unit	SV-50DT	SV-65DT
TABLE	Table size	mm	550x400	750x400
	T-Slot (WxNo.xP)	mm	14x3x125	14x3x125
	Max. loading capacity	kg	250	250
TRAVEL	Max. Travel range of X/Y/Z	mm	500x430x340	650x430x340
	Spindle nose to table center	mm	150~490	150~490
SPINDLE	Spindle motor	kw	3.7/5.5	3.7/5.5
	Spindle taper		BT30	BT30
	Spindle speed	rpm	Mits: 12000(D.D.S) Fanuc: 10000(D.D.S)	
FEEDRATE	Rapid traverse speed of X/Y/Z	m/min	Mits: 48/48/48 Fanuc: 36/36/36	
	Max. cutting feed rate	m/min	1~12	1~12
	X/Y/Z power of servo motor	kw	Mits: 1.5/1.5/2.0 Fanuc: 1.2/1.2/1.8	
AUTOMATIC TOOL CHANGER	Tool capacity		16T(21T)	16T(21T)
	Max. adjacent tool (DxL)	mm	φ100x200	φ100x200
	Max. tool weight	kg	3	3
	Automatic tool changer		Clam	Clam
GENERAL	Power capacity	kva	15	15
	Air pressure required	kg/cm <sup>2</sup>	6~8	6~8
	Outline dimension	mm	1650x2500x2370	2150x2500x2370
	Net weight	kg	2850	3000

\*We reserve the right to modify the design and specifications without notice in advance.

### STANDARD EQUIPMENT

- 12,000rpm direct-drive spindle
- Rigid tapping
- Spindle air blast device
- Fully enclosed splash guard
- Heat exchanger for electrical cabinet
- Automatic lubrication system
- Cooling system and coolant tank
- Work lamp
- Foundation bolts and blocks
- Tool box with tools
- Operation and maintenance manual
- Coolant flushing device
- Flushing gun

### OPTIONAL EQUIPMENT

- 15,000/24,000rpm direct drive spindle
- Y axis rear side chip conveyor
- Y axis rear side screw chip conveyor
- Spindle cooling system
- 4th axis rotary table
- Transformer
- Coolant through spindle
- Tool length measurement

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**SHINZAWA**



**SV-50DT series**

**DRILLING TAPPING CENTER**

## Reinforced Structural Design Exhibits Exceptional Cutting Efficiency and Stability The best Cost-Performance choice

The drilling tapping center of SV-50DT integrates the features of high speed and maximum stability. The series of machines enhances the structural design to assure the best dynamic and static stability. They are equipped with a 12,000rpm high speed spindle, combined with 48 m/min. rapid traverse rate on three axes making an optimistic integration for high speed, high accuracy and high efficiency.

## DRILLING TAPPING CENTER

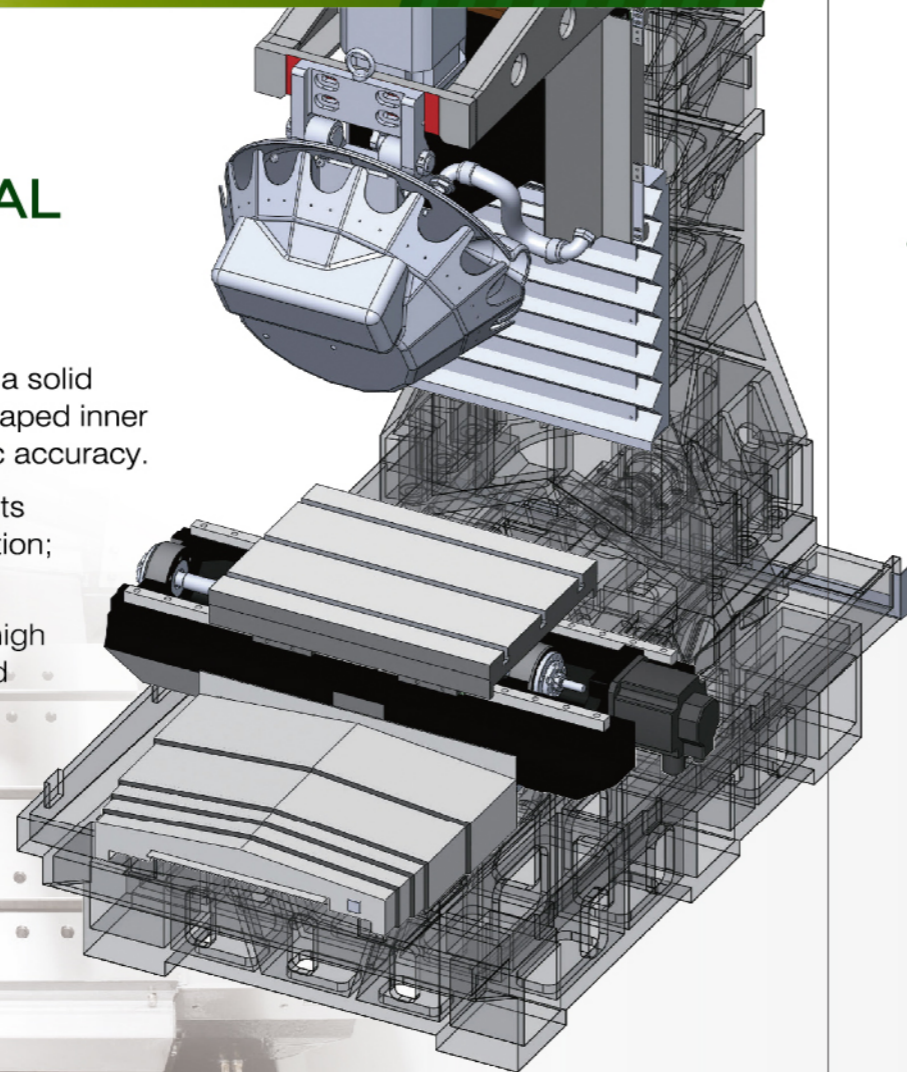
### 12,000RPM DIRECT-DRIVE SPINDLE (STANDARD)

- BT-30 spindle taper
- The acceleration/deceleration time for the direct-drive spindle is quickly accomplished in only 1~1.5 seconds. The greatly upgrades machining efficiency.
- 15,000/24,000rpm is optional.



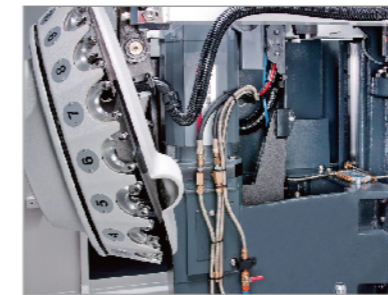
## PERFECT STRUCTURAL RIGIDITY

- The stable low gravity machine base offers a solid foundation for the entire machine. The V-shaped inner ribs provide long lasting dynamic and static accuracy.
- Extra wide span between linear ways exhibits exceptional stability to absorb cutting vibration; free from overhang problems.
- All structural parts are manufactured from high tensile FC-300 cast iron, stress relieved and deformation free.
- The box type construction features anti-deformation and anti-bending.
- The A-shaped machine column firmly supports the ATC unit and head stock. The design is capable of dealing with cutting force from axial and radius directions.



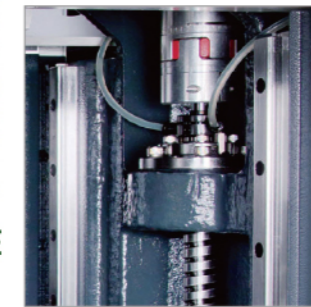
### 16 TOOL CLAMP TYPE ATC (STANDARD)

- The tool magazine can be fitted with BT-30 tool sank.
- The magazine body is manufactured from aluminum alloy for reducing the inertia load. It also features fast tool change and stable motion.
- Random, bi-directional tool section.
- Mechanical tool unclamping mechanism features extremely smooth motion. Accurate cam contour design for simultaneous tool knocking.

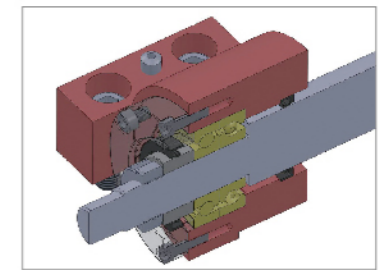


### OPTIMIZED SPINDLE HEAD H/L RATIO

The ratio between the spindle stock's height and width is nearly 1:1, allowing it to present superior capabilities in radial and axial cutting resistance.

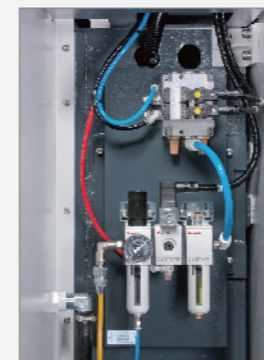


- Special cooling device for Z-axis bearing housing (Opt.)
- Equipped spindle oil cooler. (Opt.)
- Cooling device for spindle motor flange.



### ANCHORED BALL SCREWS

- Both ends of ball screws are anchored on the machine by angular contact ball bearings, that feature higher rigidity and stability than those made by competitors.
- Pretensioned ball screws remove backlash, and increase positioning accuracy.



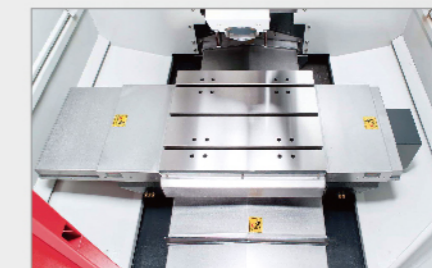
### CONCEALED PNEUMATIC PARTS

The pneumatic parts are centralized in a compartment to prevent them from bumping, while helping to keep the machine looking neat.



### SERVO DRIVE

Increases overall performance to achieve outstanding result of high speed high precision cutting.



### WIDE INTERIOR SPACE

- Wide interior space features good ventilation, efficient chip evacuation. Two coolant flush motors are standard, with the coolant flushing rings inside the chip enclosure that is capable of removing heat source from the machine.
- Two independent-controlled pumps respectively for spindle cutting and for chip enclosure's coolant flush.