

## MACHINE SPECIFICATIONS

MODEL		TR-32 5AX			
TRAVEL	X-axis	mm	560		
	Y-axis	mm	400		
	Z-axis	mm	400		
	A-axis	DEG.	+120°/-30°		
	C-axis		360°		
	Max.Swing	mm	ø320		
	Table Surface to Spindle Nose	mm	150~550		
	Spindle Nose to Tilting center AT 90°	mm	150~550		
TABLE	Max. Work area (90°)	mm	φ260x260 L		
	Table Size	mm	φ320		
	T Slots	mm	12		
	Table Load Capacity	kgs	100		
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		
	Rapid C/A axis	rpm	25/16.6		
	Cutting (G01)	mm/min	8000		
ATC SYSTEM	Tool Shank		BT#40		
	Pull Studs		P40T-1 MAS403-45°		
	ATC Type		Arm		
	Magazine Capacity		30+1		
	Max. Tool Length	mm	275		
	Max. Tool Diameter	mm	80		
	Max. Tool Weight	kgs	5		
	Tool Change Time				
MOTOR	Spindle	kw	7.5/5.5		
	X-axis (MITSUBISHI/FANUC)	kw	1.5/1.8		
	Y-axis (MITSUBISHI/FANUC)	kw	1.5/1.8		
	Z-axis (MITSUBISHI/FANUC)	kw	3.0/3.0		
MACHINE SPECIFICATIONS	W x D x H	mm	2277x4120x2745		
	N. W.	kgs	5200		
OPTIONAL ACCESSORIES	High Speed Spindle Upgrade		10K	12K	15K
	Spindle Power Upgrade			11kw	
	CAT40,SK40,HSK63 Magazine & Spindle			△	
	Extra Low Inertia Spindle Motor (Mitsubishi)			△	
	Coolant Through Spindle			△	
	Automatic Tool Length Measurement With Breakage Detection			△	
	Three Axes Scale			△	
	A / C Axes Scale			△	
	Chip Conveyor -Rear Type (Filter/Chain Type)			△	
	Coolant Gun			△	
	Workpiece Air Blow System			△	
	Oil Mist Coolant System			△	
	Automatic Door			△	
	Oil Skimmer			△	
	Mist Collect with Top Side Guard			△	
	Transformer , Voltage regulator			△	
	Electric Cabinet Air Conditioner			△	

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

○:Standard △:Optional X:Not available

### STANDARD ACCESSORIES

- Spindle air blow device
- Screw-type chip conveyor
- Work light (PL light)
- 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.
- Chiller (Spindle speed 10K/12K/15K)
- Hydraulic Unit
- Chip Conveyor -Scrapper Type (Rear)



### TRIDENT MACHINERY CO., LTD.

NO.2, JINGKE ROAD, NANTUN DISTRICT, TAICHUNG CITY 40852, TAIWAN  
 TEL: +886-4-2355-2655 FAX: +886-4-2355-2099  
 E-mail: trident.cnc@msa.hinet.net Web: http://www.trident-cnc.com.tw

Agent:

105.12-1000-5ax



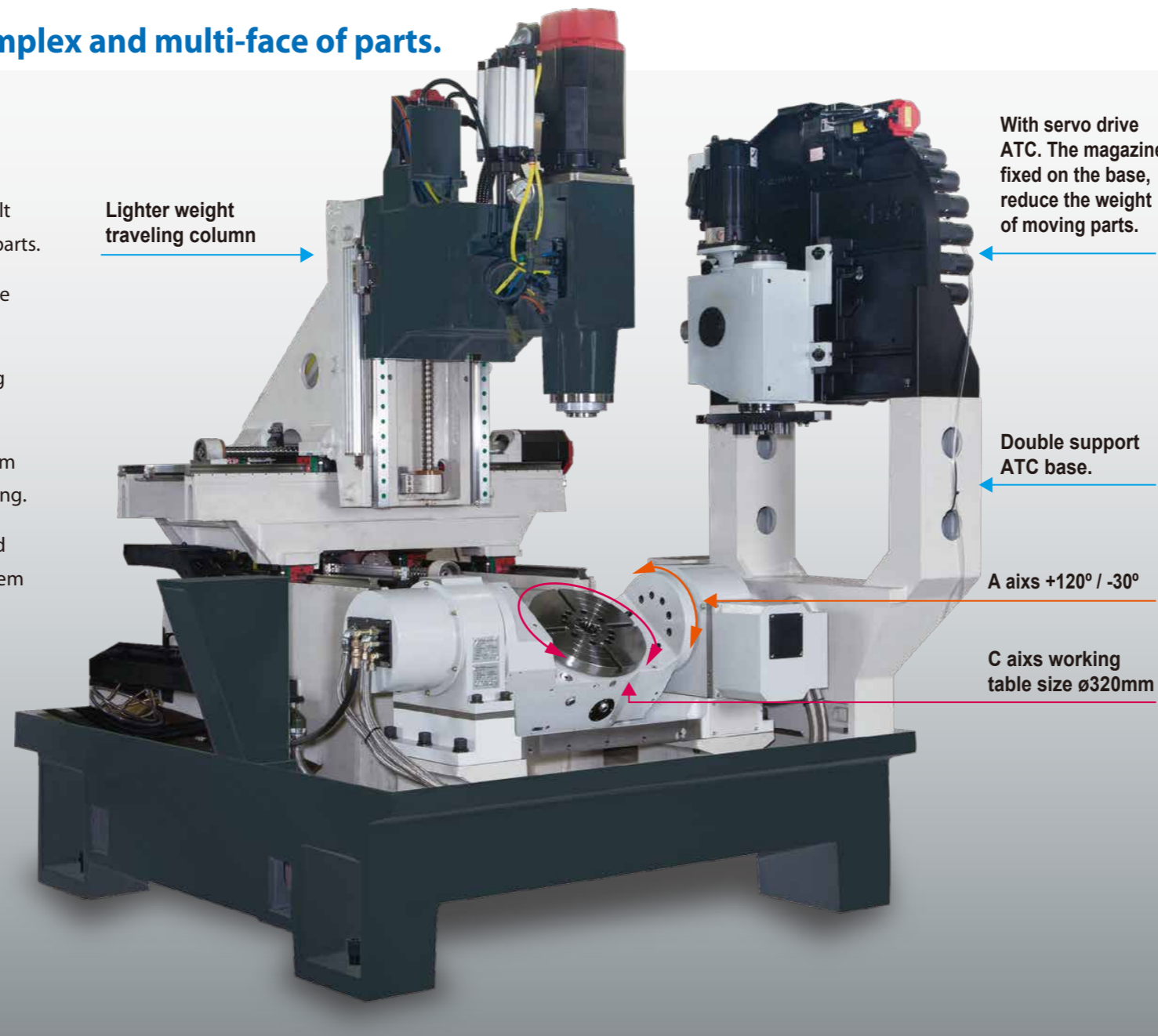
# TR-32 5AX series

## FIVE AXIS CNC VERTICAL MACHINING CENTER

# Optimal Design ! High Speed Without Vibration !

## Your best choice in machining complex and multi-face of parts.

- The accuracy of the high-performance 5-axis machining center, It could reach the request of drilling 、 tapping 、 tilt face cutting and irregular surface machining of complex parts.
  - 3 -axis slideways are equipped with roller type linear guide ways.
  - Traveling column, oversized base and lightweight moving parts permit high-speed travel without vibration.
  - Raise up the height of basement to make the distance from spindle to blocks shorten, to ensure more rigidity on cutting.
  - Scales types of X-axis telescopic covers, divide cutting and non-cutting area, extend the lifetime of transmission system parts.
- **Standard spindle speed 8000 rpm (BT#40)**
  - **Rigid tapping 3000 rpm**
  - **Rapid traverse 48/48/48 m/min (X/Y/Z)**
  - **Spindle taper BT#40**
  - **Tool change time (Servo drive) 1.7 Sec.(tool to tool)**
  - **Direct-drive spindle**



### Efficient Magazine

- Standard capacity of the magazine is 30 tools. For BT#40 tool shank. (T-T 1.7 sec.)
- Servo Drive magazine provides 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 rotary table

- High rigidity body.
- Drum brake system, rotating center does not offset during braking. Minimum positioning error.
- Large hole diameter allows for mounting multi-port oil distributor.
- Transmitted by a specially designed dual lead worm with larger tooth depth and module, the rotary table is excellent for heavy cutting applications.
- The worm is completely immersed in lubrication fluid for thorough lubrication and increased service life.
- Integrated radial and axial bearing.
- Waterproof design.



### Control Specifications

	Mitsubishi					Fanuc	
	M70-VB	M70-VA	M80-VB	M80-VA	M720-VS	0i-MF(P3)	0i-MF(P1)
CPU	64 bit					32 bit	
Max. Controlled Axes	9	11	9	11	12	6	9
Max. Simultaneous Axes	4	4	4	4	4	4	4
Program Storage Length	512K	512K	512K	512K	512K	512K	512K
Macro Variables common	700	700	700	700	700	700	700
Tool Offset Sets	400	400	400	400	400	400	400
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 Front-loading						○	
Ethernet						○	
High Speed And Accuracy Machining Code	G05.1 Q1	G05 P10000	SSS	SSS	SSS	G05.1 Q1	
RS-232 Interface						○	
Toolpath Simulation	○	3D			○		
Handwheel Feed Program Simulation						○	
Program Buffer Correction						○	

○ : Standard    × : None

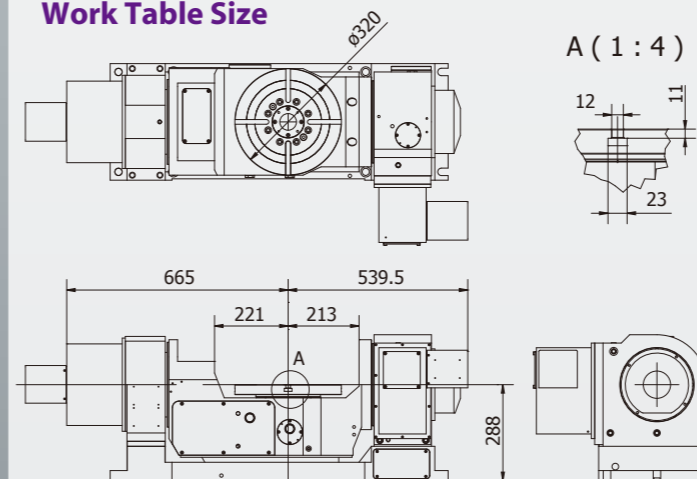
### Quality Control

#### ● TEST REPORT (CIRCULARITY)



- The positioning accuracy is inspected by using Agilent laser unit
- All machine are measured and calibrated by ball bar testing equipment.

### Work Table Size



### Dimensions

