MACHINE SPECIFICATIONS

	MOI	DEL		TR-45S	TR-45E	TR-45L	TR-513	TR-513A	TR-603	TR-603A	TR-703	TR-703A
	X-Travel		mm	300 450 510		510		600		700		
	Y-Travel		mm	250 300		400		400		400		
TRAVEL	Z-Travel		mm	300		350	430	350	430	350	430	
	Table to Spin	ndle Nose	mm		175~475		150~500	150~580	150~500	150~580	150~500	150~580
	Table Size		mm	280x350	500x320	600x320	600	x 420	700 >	(420	850>	420
TABLE	Max. Load		kg	150 200		250		250		250		
	T Slots (Width x Pitch x No.)		mm	14 x 100 x 3		14 x 100 x 4		14 x 100 x 4		14 x 100 x 4		
	Spindle Speed		rpm	10000		10000		10000		10000		
SPINDLE	Max. Tapping Speed		rpm		4000		4000		4000		4000	
	Spindle Taper			7/24 NO:30		7/24 NO:30		7/24 NO:30		7/24 NO:30		
	Transmission			Direct drive		Direct drive		Direct drive		Direct drive		
FEED RATE	Rapid Traverse (G00)		m/min	48/48/60		48/48/60		48/48/60		48/48/60		
	Cutting Feed Rate (G01)		mm/min	10000		10000		10000		10000		
AUTOMATIC TOOL CHANGER	Tool Shank PUll Studs			BT#30 P30T-1 MAS403-45°		BT#30 P30T-1 MAS403-45°		BT#30 P30T-1 MAS403-45°		BT#30 P30T-1 MAS403-45°		
	ATC Type			Armless		Armless	A3403-45°	Armless	A3403-43°	Armless	A5405-45°	
	Magazine Capacity				12		12	20+1	12	20+1	12	20+1
			mm	150 200		20		20		20		
SYSTEM	Max. Tool Diameter		mm	100		100	63	100	63	100	63	
	Max. Tool Weight		kg	2.5		2.5	3	2.5	3	2.5	3	
	Tool Change Tool To Tool		sec.	1.4		1.4	1.5	1.4	1.5	1.4	1.5	
	Time	Chip To Chip	sec.		2.3		2.3	2.4	2.3	2.4	2.3	2.4
MOTOR	X-axis (MELDAS)		kw	0.5 1.0		1.5		1.5		1.5		
	Y-axis (MELDAS)		kw	1.0 1.5		1.5		1.5		1.5		
	Z-axis (MELDAS)		kw	3.0 2.2		3.0		3.0		3.0		
	Spindle (MELDAS)		kw	3.7 / 2.2		3.7 / 2.2		3.7 / 2.2		3.7 / 2.2		
MACHINE	WxDxH										190x252x260	
DIMENSIONS			kg	2100	2380	2500	3100	3250	3250	3500	3350	3600
	Armless 14T Magazine		C)	×	X	Δ	\triangle	X	Δ	X	Δ	×
	Armless 21T Magazine (Servo AT		C)	X	Δ	\triangle	\triangle	×	Δ	×	Δ	X
	Magazine With Servo											
	SK-30 Magazine & Spindle High Speed Spindle Upgrade To 12k/15K/20K/24l		K/20K/24K	Δ		Δ		Δ		\triangle		
	Spindle Power Upgrade To 5.5/3.7KW			Δ		\triangle		\triangle		Δ		
OPTIONAL ACCESSORIES	Extra Low Inertia Spindle Motor (Rigid Tapping 6000rp					Δ		Δ		Δ		
	Coolant Through Spindle		J 1 /	Δ		Δ		Δ		Δ		
	ATLM With Breakage Detection			Δ		Δ		Δ		Δ		
	Automatic Door		Δ		\triangle		Δ		Δ			
	Transformer / Voltage Regulator		Δ		Δ		Δ		Δ			
	Workpiece Air Blow System		Δ		Δ		Δ		Δ			
	Oil Mist Syste			Δ		Δ		Δ		Δ		
	4 TH or 5 th Axis			Δ		Δ		Δ		Δ		
	Coolant Gun			Δ		Δ		Δ		Δ		
	Enclosure Chi		Δ		Δ		\triangle		Δ			
	Scraper Or Ch	/eyor	Δ		\triangle		\triangle		Δ			
	Mist Collector / Top Full Cover			Δ			\triangle		\triangle		\triangle	

[•] All specifications, dimensions and design characteristics are subject to change without notice.

STANDARD ACCESSORIES

- Spindle air blow device
- Work light (PL Light)
- Coolant system and coolant tank
- Leveling bolts and pads
- Double-cabinet-type electrical cabinet (with heat exchanger)
- Chip auger
- Automatic lubrication system
- Tool kit and tools
- Dual-color LED alarm light
- TFT LCD monitor

Agent:



TRIDENT MACHINERY CO., LTD.

NO.2, JINGKE ROAD, NANTUN DISTRICT, TAICHUNG CITY 40852, TAIWAN TEL: +886-4-2355-2655 FAX: +886-4-2355-2665
E-mail: trident.cnc@msa.hinet.net Web:http://www.trident-cnc.com.tw

101.04-2000-BT#30



 $[\]bigcirc{:} Standard \ \triangle{:} Optional \ X{:} Not available$

CNC Tapping Center

Optimal Structural Design! Maximum Stability! Maximum Rigidity!

- The structural parts of the machine are manufactured from high quality Meehanite cast iron, rib reinforced and stress released to assure it remains deformation-free year after year.
- Three axes slideways are mounted with precision linear ways. Extra large span between ways. High feed rate and superior stability.
- Servo motor directly drives ballscrew, featuring high positioning accuracy without backlash problem.

The CNC tapping center, designed and manufactured by TRIDENT, is your best choice in drilling and tapping work. The machine series employs a high speed traverse on three axes to significantly increase drilling and tapping efficiency. In addition, customers may select armless or arm type magazine according to machining requirement. The entire machine is ruggedly constructed to assure the highest machining accuracy.



BT30 Armless Type Magazine 12/14 Tools: Tool to Tool 1.4 sec.

CPU

Max. Controlled Axes

Tool Offset Sets

Memory Card Ethernet

RS-232 Interface Toolpath Simulation

Display

Max. Simultaneous Axes

Program Storage Length

Macro Variables Common

Multi-Language Display

Conversational Programming

Servo System with ABS. Encoder

Hight Speed And Accuracy Machining Code

Handwheel Feed Program Simulation

Program Buffer Correction

CONTROL SPECIFICATIONS



BT30 Arm Type Magazine 20 Tools: Tool to Tool 1.5 sec.

E-68 M70-VB M70-VA M720-VS Oi-MATE-D Oi-MD

400

200

0

 \bigcirc

G08 G05.1 Q1 G05 P10000 SSS G05.1 Q1 G05.1 Q1

3D

0

 \bigcirc 0

0

512K 1024K 1024K

200 200

× O

4

1024K

400

200

0

4

256K

400

200

0 0

 \bigcirc

0

 \circ

4

600

200



QUALITY CONTROL





Test report (circularity)







BT#30 Direct Drive Type Spindle Speed

10000, 12000, 15000, 20000, 24000 NBT With Two Faces Contact.

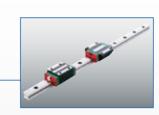


Z axis Telescopic Guard

To conform high speed traverse of Z axis, it provides superior protection for linear ways and extends their service life.

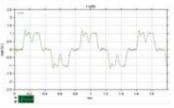


Three axes are driven by high performance motors with quick acceleration and deceleration.



Acceleration Test Report

for TR-45E



Linear Ways On 3 Axes

The X, Y, Z-axis slideways are mounted with precision linear ways, fitted with great span between ways, showing maximum stability during high speed traverse. The ball type linear ways feature low friction coefficient and high positioning accuracy.



A chip auger is mounted at the center of the base, removing chips to the rear side of the machine easily. It makes chip disposal convenient.

X, Y Axis Telescopic Guard

The telescopic guards on X, Y-axis prevent chips or coolant from damaging linear ways.

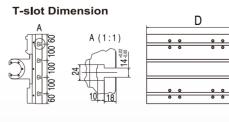
"V" shaped telescopic guard on X, Y axis, allows fast chip removal and high efficiency linear way protection.



Large Capacity Coolant Tank With Casters

Sliding coolant tank can be pulled out easily while coolant pump with mesh filter take away cutting chips quickly.

DIMENSIONS



Machine Dimension

	A	В	C	D
TR-45S	1000	2290	2330	350 x 280
TR-45E	1200	2290	2330	500 x 320
TR-45L	1400	2290	2330	600 x 320
TR-513	1550	2520	2600	600
TR-513A	1650	2520	2800	600
TR-603	1650	2520	2600	700
TR-603A	1650	2520	2800	700
TR-703	1900	2520	2600	850
TR-703A	1900	2520	2800	850

