

Precision & Speed is  **TRIDENT**
We make it better!

TR-70 CNC TAPPING CENTER



- Standard spindle speed 60~8,000 min⁻¹
- Optional spindle speed 60~12,000, 15,000 min⁻¹
- Rigid tapping 4,000 min⁻¹
- Spindle nose taper **BT-30, BT-40**
- 3 axes rapid traverse X, Y: 48 M/min, Z: 48 (60) M/min
- Fully enclosed heat isolated electric cabinet (with heat exchanger)
- High speed ATC system T.-T.: 1.4 sec (BT-30)
- Directly coupled spindle drive system

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TR-70 series



MACHINE SPECIFICATIONS

	Unit	TR-70E	TR-703	TR-70A	TR-703A
AXES					
X-axis travel	mm	700			
Y-axis travel	mm	400			
Z-axis travel	mm	400	350	500	430
Table to spindle nose	mm	150			
RAPID TRAVERSE	M/min.	48/48/48	48/48/60	48/48/48	48/48/60
X-axis drive motor	KW	1.5 (MELDAS)			
Y-axis drive motor	KW	1.5 (MELDAS)			
Z-axis drive motor	KW	3.0 (MELDAS)			
SPINDLE					
Transmission	Belt	Direct Coupling	Direct Coupling	Direct Coupling	Direct Coupling
Spindle taper	BT-40	BT-30	BT-40	BT-30	BT-30
Spindle motor output	KW	5.5/3.7	3.7/2.2	7.5/5.5	3.7/2.2
Spindle speed	Min ⁻¹	8000			
MAGAZINE					
		ARM LESS		ARM TYPE	
Magazine capacity	pcs	12	12	24+1	20+1
Max. tool weight	kgs	3	2.5	4	3
Max. tool length	mm	250	200	250	200
Max. tool diameter	mm	100	80	80	63
ATC speed (T-T)	sec.	1.8	1.4	1.8	1.2
(C-C)	sec.	2.5	2.3	2.6	2.1
MACHINE DIMENSIONS					
Table size	mm	800 x 420			
Max. table load	kgs	250			
Net weight	kgs	3450	3350	3650	3600

CONTROL SPECIFICATIONS

	Mitsubishi			Fanuc
	E-68	70M-B	70M-A	0i-MD
CPU	64 bit			32 bit
Max. controlled axes	4	4	6	4
Max. simultaneous axes	4	4	4	4
Program storage length	600 M			320 M
Macro variables common	400	400	400	600
Tool offset sets	200	200	200	200
Conversational programming	X	○	○	○
Display	8.4" TFT LCD			
Multi-language display	○			○
Servo system with ABS. encoder	○			○
Memory card	○			○
Ethernet	X	○		○
High speed and accuracy machining code	G05.1 Q1		G05 P10000	G05.1 Q1
RS-232 interface	○			○
Program route simulation	X	○		○
Handwheel feed program simulation	X	○		X
Program buffer correction	○			X

○ Standard X None OP Option



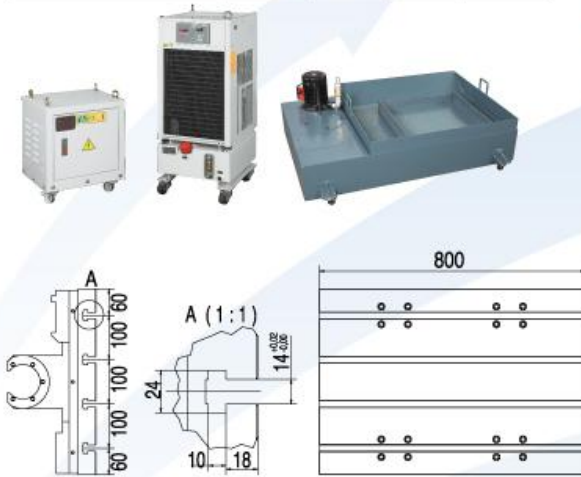
● The well-planned control panel meets human-engineering theorem.

STANDARD MACHINE FEATURES

- Spindle air blow device
- Work light (PL light)
- Tool coolant system
- Leveling bolts and pads
- Double-cabinet-type heat isolated electric cabinet (with heat exchanger)
- Screw-type chip removing device
- Automatic lubrication system
- Tool kit and tools
- Dual-color LED alarm light
- TFT LCD monitor

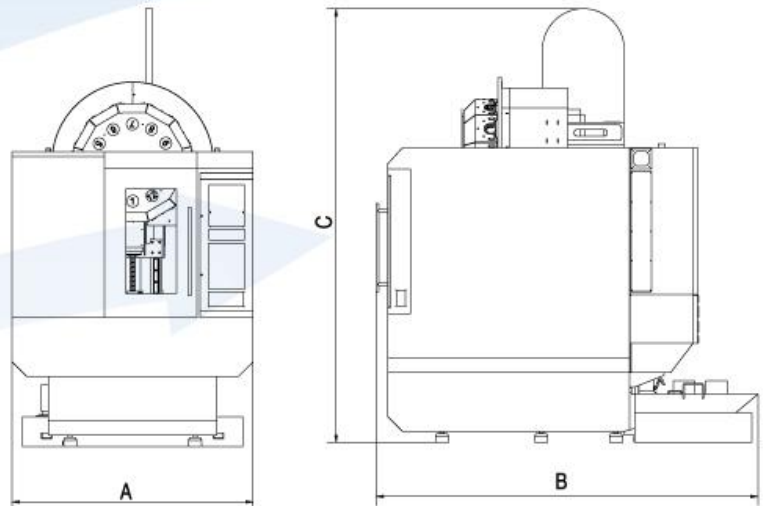
OPTIONAL ACCESSORIES

- Automatic door
- Transformer, regulator
- 12,000 RPM, 15,000 RPM spindle
- 20,000 RPM, 24,000 RPM spindle (BT-30 only)
- Extra low inertia spindle motor
- High pressure coolant through spindle
- Automatic tool length measurement with breaking detection
- Workpiece air blow system
- 4th axis (NC rotary table)
- 5th axis (4th axis with tilting shaft)
- Thermal growth compensation



DIMENSIONS

	A	B	C
TR-70E	1850	2520	2800
TR-703	1850	2520	2550
TR-70A	2000	2520	2800
TR-703A	2000	2520	2800



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



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