



TACHYON Series

**Vertical drilling and tapping centre
3 axes, high speed machining**

Performance
Technology
Dynamic
Accuracy





TACHYON *Series*

Dynamic, Accurate, Compact, machine dedicated to drilling, tapping and milling 3 axes, high performances.

The TACHYON range is entirely dedicated to drilling, tapping and milling operations for the production of mechanical components in small and medium series.

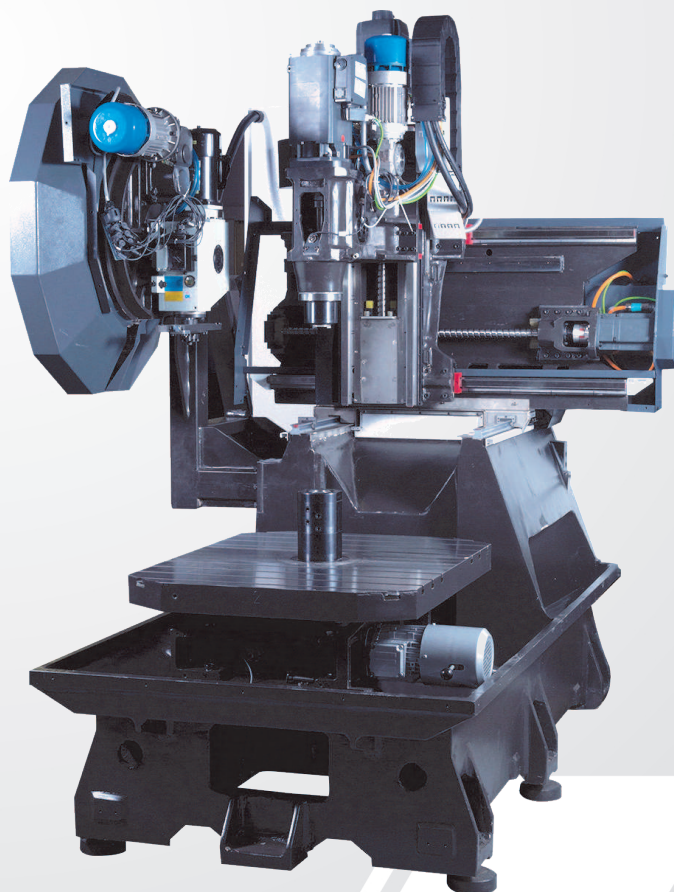
These compact vertical milling centers with fixed bed and reduced footprint have all the required qualities to be at the highest level in their category.

These machines combine dynamism and accurate precision machining. They are perfectly suited to production lines in series.

- Fixed bed structure with traverse, saddle and mobile spindle carriage for high dynamics and accurate machining
- Optimized workpiece volume compared to travels
- Decrease of unproductive time due to high spindle acceleration, feedrate, high acceleration on axes, a short tool changing time and a rapid rotation of the divided table

Compact structure with accuracy

- Machine with reduced footprint
- Fixed bed structure with traverse, saddle and mobile spindle carriage for high dynamics and accurate machining
- Fixed structure and 3 linear axes on tools to allow high rigidity and dynamism
- Integrated divided table with rapid rotation to reduce the workpiece changing time
- Chips evacuation integrated in bed structure
- Protected electrical cabinet IP54





Linear axes

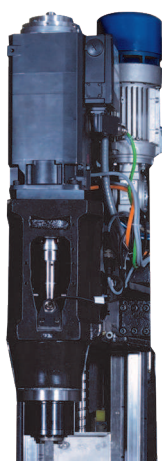
- 3 linear axes on tool allowing constant accuracy with rapid feedrates by reducing the moving masses
- Automatic lubrication of ballscrews and guide rails
- Optimized workpiece volume compared to travels

Divided table

- Integrated divided table with rapid rotation to reduce the workpieces changements
- Electromechanical drive system for accurate and repetitive positioning, also for rapid rotation

Spindle

- High speed spindle
- Thermally stable spindle
- Possibility of machining small parts with high accuracy and dynamism thanks to the acceleration of the spindle
- Direct coupling of the motor to the spindle for better transmission of forces
- Direct drive for increased positioning accuracy and reduced maintenance



Tachyon 5 - 7	
Taper	BBT 30
Rotating speed	15.000 rpm
Power (S6/S1)	7,4 / 4,9 kW
Torque (S6/S1)	32 / 23 Nm
Characteristic speed	2.000 rpm

Environment - Ergonomics

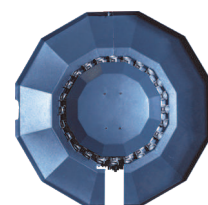
- Compact, reduced footprint
- Machine with complete safeguard providing protection of the machine, the operator and its environment
- Large accessibility to the workpiece loading/unloading area
- User-friendly, swivel control panel
- Evacuation of chips integrated in the bed structure
- Chips conveyor on the rear of the machine

Numerical control

- Possibility to drive up to 5 axes
- Great ergonomics, color screen and complete alfanumerical keyboard
- Connexions and communication interfaces completely integrated and easily accessible
- High memory and calculation capacities
- Interactive programming
- Graphical simulation before machining for optimum safety

Tools changer

- The automatic tool load/unload is made in vertical position



	Standard	Alternative
Qty of housings	16	24
Taper	BBT 30	BBT 30
Tool dimension :		
– Ø	80 mm	80 mm
– Length	200 mm	200 mm
– Weight	2 kg	2 kg

Technical characteristics

Linear axes X / Y / Z		Tachyon 5	Tachyon 7
X travel	mm	550	700
Y travel	mm	400	400
Z travel	mm	450	450
Rapid feedrates	m/min	60	60
Acceleration per axis	m/s ²	12/8/15	12/8/15
Rotating divided table			
Table dimension	mm	600 x 400	800 x 400
Max. load on table	kg	2 x 300	2 x 350
Qty of slots		4	4
Dimension of slots	mm	14	14
Distance between slots	mm	100	100
Distance floor / top table	mm	804	804
Workpiece changing time	sec	4	4
Spindle			
Rotating speed	rpm	15.000	
Taper		BBT 30	
Power / Torque	kW / Nm	7,4 / 35	
Characteristic speed	rpm	2.000	
Accuracies (VDI DGQ 3441)			
Linear axes (X/Y/Z)			
– Positioning (P)	mm	0,006	
– Repeatability (Ps medium)	mm	0,004	
Tools changer			
Qty of housings		16	
Tool length	mm	200	
Tool Ø	mm	80	
Tool weight	kg	2	
Over-all measurements (Doors opened + conveyor)		Tachyon 5	Tachyon 7
Width	mm	2.210	2.210
Depth	mm	4.360	4.360
Height	mm	2.620	2.620
Weight of the machine	kg	4.500	5.800

Optional equipments

Various tools changers - Coolant medium pressure 20 bar - Air blast - Workpiece probe - Tool probe
- Dividing plate 4th axis - Oil extraction system - Oil skimmer



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