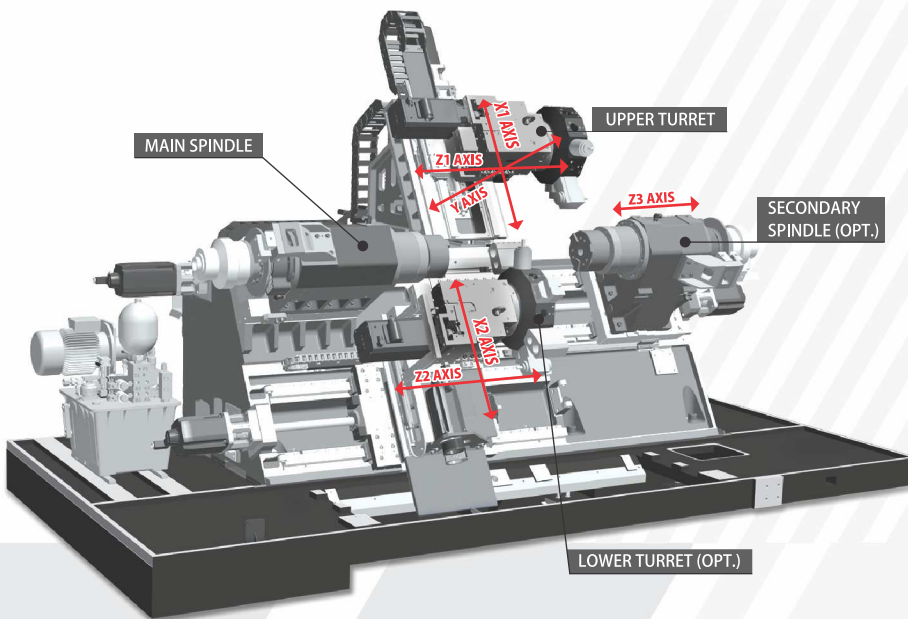
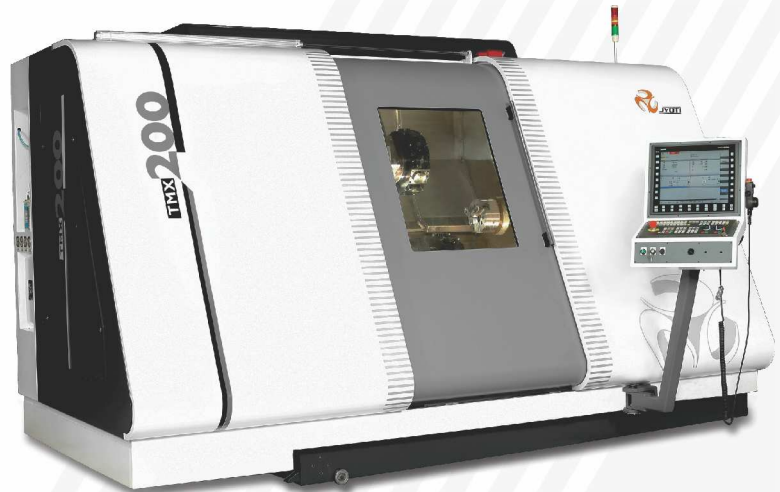




TMX Series

Turnmill Centre 2 spindles, 2 turrets

TMX Series, milling/turning machine with various possibilities of configuration with spindles and turrets was developed to equip the production facilities. Its main advantage is to allow the simultaneous machining of several parts and various operations in order to obtain significant gains in productivity and profitability.



Spindle

Machine equipped with a powerful fixed spindle. A secondary spindle is optional and moves on the linear axis Z. It can be combined with the main spindle for the production of two continuous parts machining. When machining different, the two spindles can also operate independently and simultaneously, in combination with the turrets.

Linear axes (Turrets)

Upper turret with 12 motorized tools moving in the 3 linear axes (X / Y / Z) and allowing flexibility for complex applications in turning and milling. Secondary turret is optional and moves along the X / Z. The combination of 2 turrets allow tools for complex machining. The simultaneous working allow an optimal distribution of the use of each turret. Travels of each turret offers the opportunity to work with each individual in the vicinity and in combination with their respective spindles to meet the most demanding applications and create a totally flexible work environment.

- Multitasking possible with combination of the two spindles and two turrets in one setup, the use of driven tools and Y/C axes
- Significant reduction in cycle time
- Increase of tool life
- Ergonomy and easy accessibility for setting up of tools up and inserts
- Very efficient removal of chips
- Possibility to add options as bar feeder, finished workpieces conveyor to achieve maximum profitability

Specifications		TMX 200	
Standard turning Ø	250 mm		
Max. turning length	725 mm		
	Standard	Option	
Chuck Size	210 mm	210 mm	
X1 / Y / Z1 axes	300 / ±40 / 750 mm	-	
X2 / Z2 / Z3 axes	-	180 / 750 / 770	
Rapid Feed (X1 / Y / Z1)	25 / 15 / 30 m/min	-	
Rapid Feed (X2 / Z2 / Z3)	-	25 / 30 / 30 m/min	
Spindle Power (S6/ S1)	27 / 21 kW (A ₂ 6)	27 / 21 kW (A ₂ 6)	
Spindle speed	50 – 4000 rpm	50 – 4000 rpm	
Tooling device	Turret 12 driven tools		

TMX 200

Machining capacity			
Standard turning Ø	mm	250	
Max. turning length	mm	725	
Travels		Standard	Option
X1 / Y / Z1 axes	mm	300 / ±40 / 750	
X2 / Z2 / Z3 axes	mm	180 / 750 / 770	
Rapid feed			
X1 / Y / Z1 axes	m/min	25 / 15 / 30	
X2 / Z2 / Z3 axes	m/min	25 / 30 / 30	
Spindles		Main	Secondary (Option)
Rotating speed	rpm	50-4.000	
Spindle nose		A ₆	
Spindle bore	mm	65	
Power – Torque (100 % duty)	kW/Nm	21/200	
Front bearing Ø	mm	110	
C axis angular resolution	Deg.	0,0001°	
Tailstock			
Stroke of axis Z3	mm	770	
Quill Diameter	mm	85	
Thrust	kgf	500	
Turrets (Servo)		Upper	Lower (Option)
Qty. driven stations		12	
Driven tool-holder		VDI 40	
Max. speed tool rotation	rpm	50-4.000	
Power / Torque tool motor	kW/Nm	5,7/13,5	
Max. bar Ø	mm	Ø40	
Accuracies (VDI/DGQ 3441)			
Positioning (P) : X / Z / Y	mm	0,008 / 0,012 / 0,008	
Repeatability (Ps) : X / Z / Y	mm	0,005 / 0,005 / 0,005	
Other datas			
Weight of the machine	kg	10.500	
Machine dimension (L x W x H) (including chips conveyor)	mm	5.500 x 2.500 x 2.600	

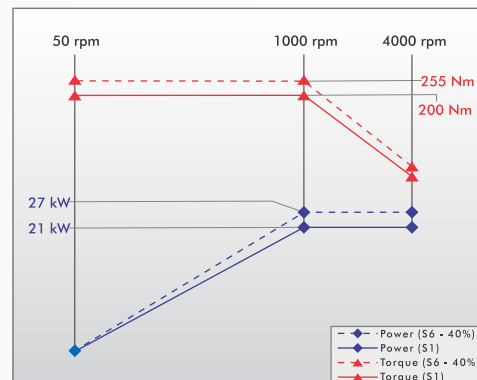
Standard features

- Monoblock structure with slant bed
- Linear guideways
- Main electrospindle equipped with hydraulic clamping chuck
- Upper turret with 12 driven station
- Linear scaling on all axes
- Programmable and centralized lubrication
- Laser calibration of axes for higher positioning and repeatability accuracies
- Chips conveyor
- Tailstock

Options

- Bar feeder
- Parts catcher
- Higher power main electro spindle
- Tool probe arm
- Coolant through tool centre
- Automatic opening of doors
- Part probe
- Secondary electrospindle equipped with hydraulic clamping chuck
- Lower turret with 12 driven station

Power / Torque Diagram



Note : • All above information is subject to change arising out of continuous product improvement. • The description standard accessories / feature conforms to its list, not the photo of machine shown in the catalogue. • Machine images are shown with option.



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