

Moving column milling centres (T configuration)

THORA T/RT



Medium Power Machining Culture

THORA



High-stiffness universal milling head
(power up to 33 kW)

Thora is the family of new medium-power and medium-size milling centres with "T" configuration including:

- **Thora T** with a moving table along the longitudinal axis
- **Thora RT** with integrated rotary table sliding along the X axis

Thora features:

- maximum versatility at low operating costs
- ergonomic design and excellent visibility of the workarea
- easy access to working area
- easy loading/unloading of heavy parts
- extensive possibility of customization thanks to the wide range of accessories (tool magazines with different capacities, various types of pallet systems, production control devices etc.)
- simplified maintenance
- environmental sustainability

Design principles

- moving column along transversal axis ensuring constant geometrical accuracies and removal capacity in the entire workarea
- sliding on large-size re-circulating roller guide-ways to grant high stiffness and acceleration
- tool cooling and chip conveyor tanks integrated in X and Y axes basements



"T"-morphology: transversal moving column with no ram

The integrated RT rotary table is driven by motors through a precision rack and double-pinion transmission system, with electronic backlash recovery. It is available with the following dimensions: 1.000x1.000, 1.000x1.250, 1.250x1.250 mm



X axis with double motor/pinion on precision rack with electronic backlash recovery

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TECHNOLOGY FOR COST REDUCTION



Possibility to equip both Thora T and RT versions with pallet systems with two or more pallets

Thora, included in Sachman's commercial range of products, meets the machining requirements of:

- moulds and dies
- precision mechanical parts
- aerospace structural components



Both Thora versions are available in two configurations: "basic", conceived for mechanical applications with universal head and maximum working speed of 24 m/min; "speed" with continuous 5-axis head, maximum working speed of 45 m/min and top dynamic performance



Chain-type tool magazine with up to 80 pockets (ISO 50/ HSK-A-100 tool holder)



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Technical data

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AXES STROKE		THORA T	THORA RT
X axis (longitudinal)	mm inch	2500 / 3000 98 / 118	2000 78
Y axis (transversal)	mm inch	1200 47	
Z axis (vertical)	mm inch	1200 47	
Worktable width	mm inch	2700, 3200 x 800 106, 126 x 31	1000 x 1000, 1000 x 1250, 1250 x 1250 39 x 39, 39 x 49, 49 x 49
Worktable loading capacity	kg lb	5000 11023	up to 5000 up to 11023

AXES SPEED		
X - Y - Z axes	m/min ipm	«Basic» configuration 24 - 945 (with Universale head)
	m/min ipm	«Speed» configuration 45 - 1771 (with T3T head)

MILLING HEADS	C axis	A axis	Power	Torque	Spindle speed	Tool taper
	°	°	kW - S6 [S1] hp - S6 [S1]	Nm - S6 [S1] lb*ft - S6 [S1]	rpm	
UNIVERSAL HEADS						
Universale	indexed 2,5	indexed 2,5	33 [25] 44 [33]	637 [482] 470 [355]	5000	HSK-A-100 ISO 50
Universale 3	indexed 0,02	indexed 0,02	33 [25] 44 [33]	637 [482] 470 [355]	5000	HSK-A-100 ISO 50
CONTINUOUS TWIST HEAD						
T3T	±200	±110	41 [33] 55 [44]	148 [120] 109 [88]	12000	HSK-A-100
			40 [36] 54 [48]	63 [58] 46 [43]	20000	HSK-A-63

TOOL MAGAZINE		Rotary-sliding chain type	Vertical chain type
Positions	N°	24 - 40	40 - 60 - 80
Tool taper		ISO 50 / HSK-A-100	ISO 50 / HSK-A-100
Tool max. Ø (with tools side-by-side)	mm inch	100 4	100 4
Tool max. Ø (with alternate tool position)	mm inch	180 7	180 7
Tool max. length	mm inch	400 16	400 16
Tool max. weight	kg lb	20 44	20 44

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