

ITALIAN MACHINE TOOLS, ROBOTICS & AUTOMATION INDUSTRY ~ NEWS

Sept 2020

PIATTAFORMA INDIA PROJECT

NEWSLETTER NO. 49



UCIMU-SISTEMI PER PRODURRE



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TARGET AND APPLICATION



ENERGY



GENERAL MACHINING



EARTH MOVING



DIE & MOLD

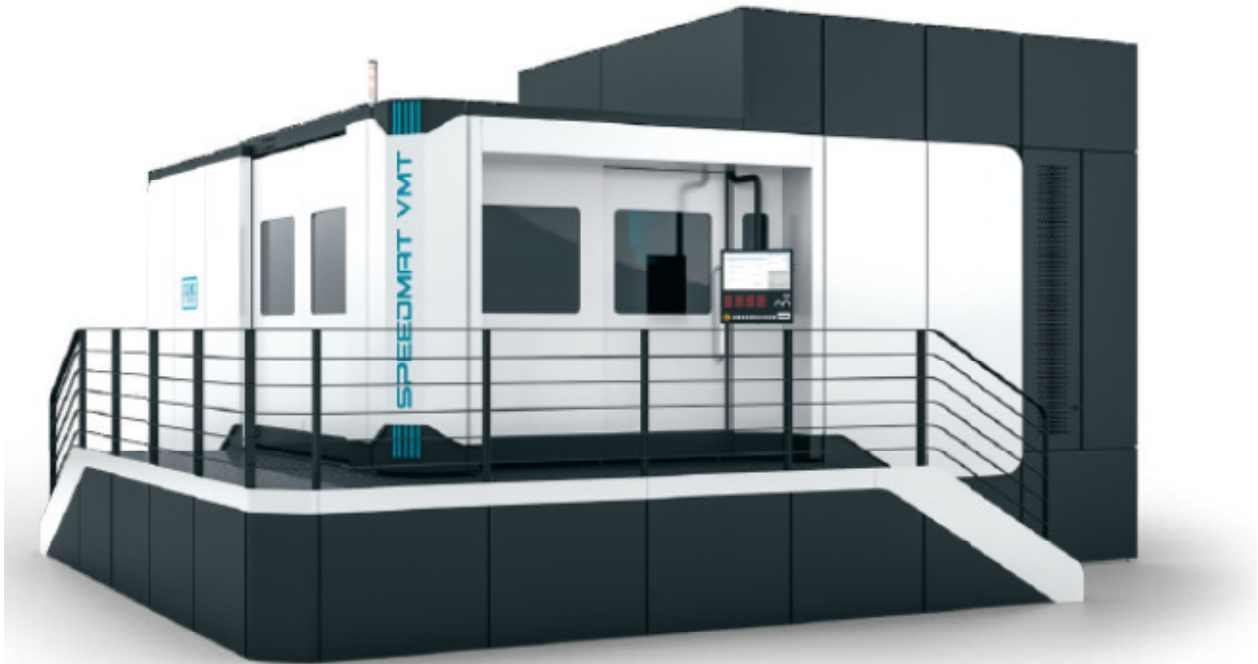


AEROSPACE

SPEEDMAT VM
MULTITASKING MACHINING CENTERS

SPEEDMAT VMT

MULTITASKING MACHINING CENTERS

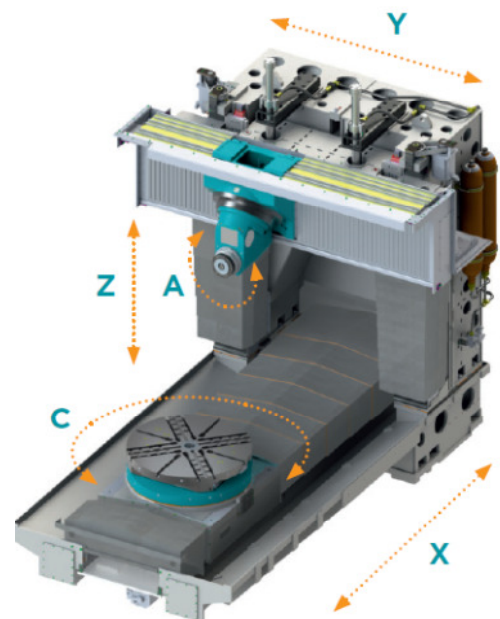


SPEEDMAT VM technology provides the perfect solution for the most demanding machining applications requiring utmost rigidity and precision even on the hardest materials. Multitasking capability allows for milling, boring and turning operations to be carried out in the same set up.

SPEEDMAT VMT is conceived for vertical machining applications and also available in multitasking configuration, the vertical machining centre is available in four pallet sizes (from 1.0m to 2.0m), load capacity from 4 to 10 tonnes and swing up to 3.0 m. The intrinsic versatility make it the ideal solution for a wide range of applications from aerospace, mould making and energy to general machining etc.

FEATURES

- Thermosymmetric structure.
- Crossrail with twin ball screw in gantry mode and hydraulic balancing for the highest dynamic performance.
- Large size linear guideways provide high rapid traverse rates maintaining high rigidity on all linear axes.
- Rotary and Multitasking table based on a combination of hybrid axial / radial bearing and preloaded hydrostatic support adjustable when in turning mode.
- This solution guarantees the best performance while turning and the best rigidity, trademark of all Pama rotary tables, while milling.
- These features, combined with full 5 axis capabilities put the Speedmat VM at the top of its class for ROI and TCO.



SPEEDMAT VM

WORKING AREA

		VM1	VM2	VM3	VM4
X axis (table)	mm	1700	2000	2600	3200
Y axis (headstock)	mm	1500	2000	2600	3200
Z axis (crossrail)	mm	1300	1300	1700	1700
Max swing diameter	mm	1500	2000	2600	3000

TABLE

Table or pallet size	mm	1000x1000	1250x1250	1250x1600	1600x2000
Table capacity	t	6	6	8	10
Pallet capacity	t	4	4	6	8
C axis feed/rapid	rpm	10	10	10	10

HEADSTOCK

		M	ES
Max spindle speed	rpm	6000/9000	1250
Max spindle power	kW	65	85
Max spindle torque	Nm	780/500	450
A axis continuous torque	Nm	4000	4000
A axis clamping torque	Nm	8000	8000



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SPEEDMAT VMT

WORKING AREA

		VMT1	VMT2	VMT3	VMT4
X axis (table)	mm	1700	2000	2600	3200
Y axis (headstock)	mm	1500	2000	2600	3200
Z axis (crossrail)	mm	1300	1300	1700	1700
Max swing diameter	mm	1500	2000	2600	3000

TABLE

Table or pallet size	mm	Ø1250	Ø1250	Ø1600	Ø2000
Table capacity	t	6	6	8	10
Pallet capacity	t	4	4	6	8
Max turning speed	rpm	350	350	200	160

LINEAR AXIS FEATURES

X axes rapid traverse/feed rate	mm/min	50000	50000	50000	40000
Y and Z axes rapid traverse/feed rate	mm/min	40000	40000	40000	40000
Max acceleration	m/s ²	3	3	3	3
X,Y,Z axes thrust	kN	15	15	15	15



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The project Piattaforma India has been promoted by UCIMU – Association of Italian Machine Tools Manufacturers and AMAPLAST – Italian Plastics and Rubber Processing Machinery and Moulds Manufacturers Association. The two associations agreed on the idea that promoting a network of associations and entrepreneurs who have developed knowledge and experience on the Indian market, can be useful in favoring of new paths of development for business. The Indian companies who are interested to form JV, cooperation, technical tie up, purchase machinery etc from/with Italian companies can contact below mentioned address for any assistance:

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