



## **Multitasking Machining Centre with ability to automatically switch from rotating tool operations to machining operations**

The Aerospace and Energy Sectors are characterised by materials difficult to machine and of a complex shape which often require turning and milling operations. The raw parts usually consist in solid plates to be machined or in forged parts or castings with a large amount of allowance to guarantee that the material is defect free: machining centres must therefore have great stability for heavy stock removal during roughing operations but at the same time they must be highly dynamic and accurate during the finishing of complex profiles. Mandelli's response is the construction of a Multitasking Machining Centre able to automatically switch from rotating tool operations to machining operations typical of a vertical lathe. Mandelli's Multitasking roots date back to 1992 with the construction of the M8 U/T Machining Center followed by the Storm 1400 with the introduction of the tilting head version. The creation of the Spark Line led to the construction of new turning/milling machine models where Mandelli took stock of its previous experiences and decided upon a fixed table solution. This configuration permits optimal performances during high stock removal as well as machining accuracy. The large dimensions of the roller slide-ways and the optimal FEM structure permit the combining of dynamic features with machining stiffness. The Spark Line includes two turning models both able to hold parts with swings ranging from dia. 1600 to dia. 2000 and with a max loading capacity of 7000 kg. The Spark A/T model has recently been equipped with various accessories which can be automatically loaded and which further increase the machining flexibility: a turning extension which reaches a depth of 600 mm, an angular head for drilling operations on internal diameters, a motor driven facing tool are the options available with automatic tool change on the accessory.

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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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