

ITALIAN MACHINE TOOLS, ROBOTICS & AUTOMATION INDUSTRY ~ NEWS

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PIATTAFORMA INDIA PROJECT

NEWSLETTER NO. 86



UCIMU-SISTEMI PER PRODURRE



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THE SOLUTION FOR COMPLEX MATERIAL REMOVAL PROCESSES FOR AIRCRAFT ENGINES

In addition to the small-sized Clock EVO and Tank EVO range, the MCM machining centre offer also includes Tank, Tank.G and Jet-Five families, all designed to provide wide configuration possibilities, mainly in terms of strokes, layouts, technical features, accessories and process control devices. The machines are available in 4- and 5-axis versions, and can also be configured for multi-process operations, such as milling, turning, grinding, boring, etc. The machining centres are the core of the important FMSs that the Italy-based company continues to develop.

We want to talk about one of these important FMSs this month. The system, consisting of two Tank.G 1600 Multitasking machining centres, is for a French customer in the Aerospace industry, where further twelve Tank Multitasking machining centres have already been installed in three FMS lines.

This new FMS line is intended for the production of strategic aeronautical components (such as engine discs) made of tough materials, such as titanium and nickel-chrome alloys, that require milling and turning operations. For this order, the request was to be able to machine new products with larger dimensions than the previous ones. The model has therefore been revised compared to those already installed, so as to handle diameters up to 1,350 mm and weights up to 800 kg (the previous model handled diameters up to 1,000 mm and weights up to 500 kg) and with a turning speed of up to 500 rpm.

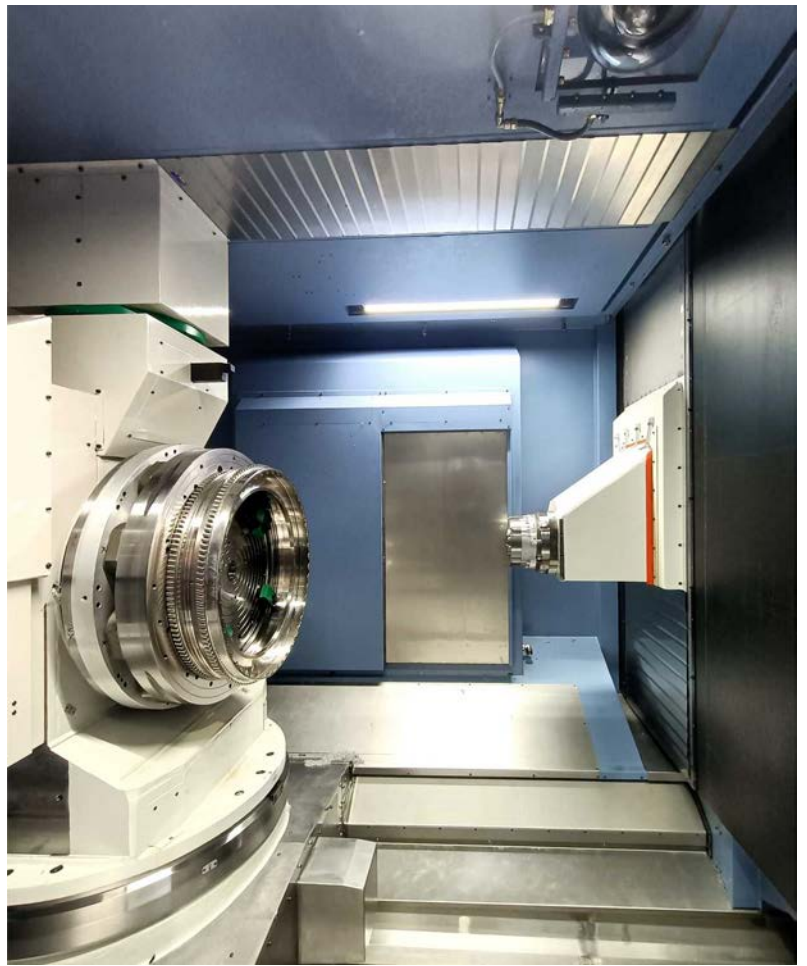


Also in this case, the Tank.G 1600 Multitasking machining centres are equipped with divider unit with vertical workpiece holder table and horizontal working axis. This is the ideal solution for machining circular parts with optimal chip removal. Another peculiarity of this plant is the 'supertool system', which allows a centralised management of tools through a shared magazine and a raised shuttle. The shuttle, in addition to feeding the machine magazines, picks up the used tools and moves them to special tool regeneration stations on board the line. The regeneration is performed on site, avoiding transfers to separate tool rooms. This solution has been designed and sized to solve, on the one hand, the problem of autonomy (also in unmanned shifts) and, on the other hand, the problem of quick wear of certain types of tools (some rough turning tools can wear out in 3 minutes).

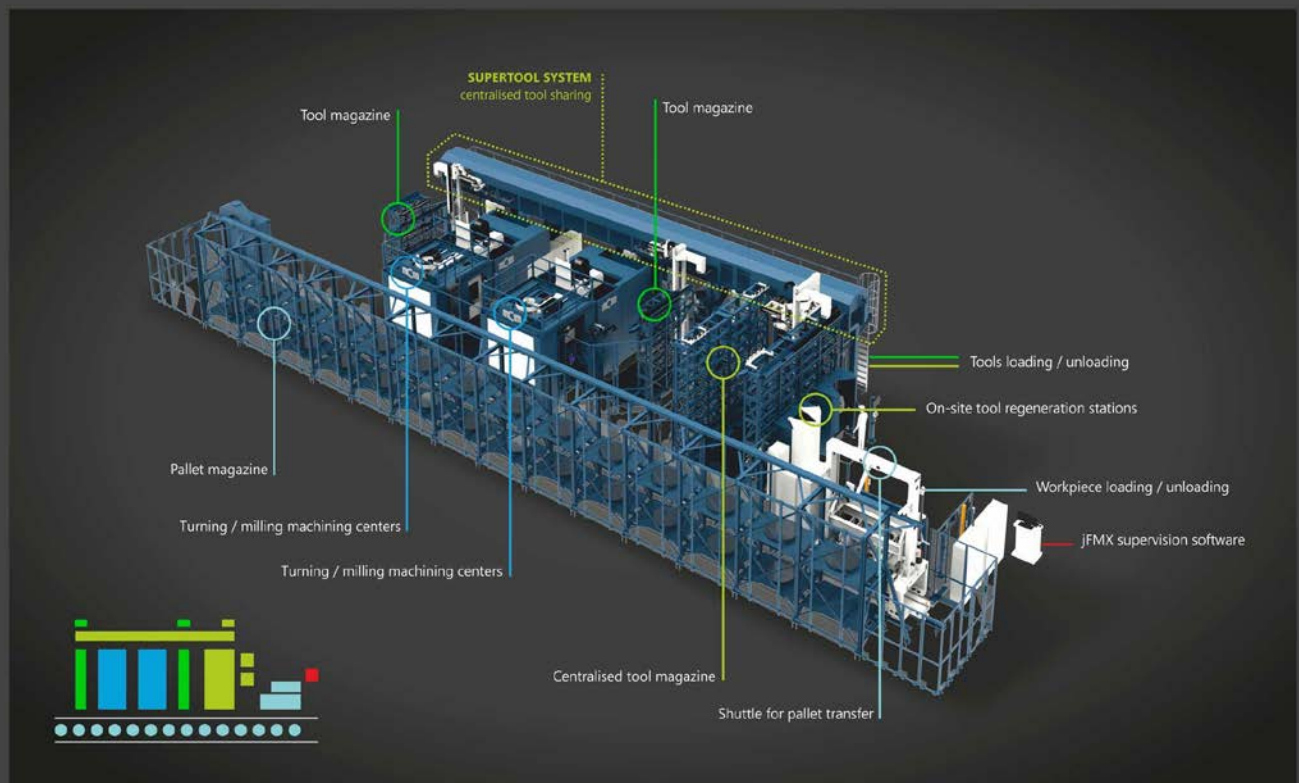
Watch the video of this application on MCM youtube channel:

<https://www.youtube.com/watch?v=JXOEqfEeqUE>

www.mcm-group.com



FLEXIBLE MANUFACTURING SYSTEM WITH CENTRALISED TOOLS SHARING



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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