

ITALIAN MACHINE TOOLS, ROBOTICS & AUTOMATION INDUSTRY ~ NEWS

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PIATTAFORMA INDIA PROJECT

NEWSLETTER NO. 50



UCIMU-SISTEMI PER PRODURRE



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THE PERFECT RECIPE

With an FMS of Spark 2600 HMCs equipped with a linear pallet system by Mandelli Sistemi, large size hard material aerospace parts can be machined in a flexible, versatile and highly automated way. The challenge was to balance the need for continuous, unmanned machining with materials featuring very different mechanical characteristics, such as aluminum alloys, steel and titanium. Aircraft manufacturers are usually international companies requiring massive use of industrial automation where agility, speed qualities and quick retooling are the key factors together strength, stability and precision levels of a hundredth of a millimeter to stay highly competitive in the aerospace industry. The challenge has been won with a modern inverted "T" configuration to guarantee good dynamics, the linear X and Y axes and the tilting A axis positioned on the side of the tool, the Z and the B axes on the side of the workpiece, a 15000 rpm 450 Nm torque spindle, a coolant flow rate up to 100 Bar, a tool magazine featuring an electronic ATC and, last but not least, a set of 120 completely digitized sensors working on algorithms to report anomalies in the machine use or behavior so as to anticipate possible stoppages or serve as indicators for predictive maintenance.



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:

Contact information of Piattaforma India desk:

Mr. Nilesh Joshi
Manager - Italian Machinery Desk in India



C/o The Indo Italian Chamber of Commerce and Industry
349 Business Point - Office No.501, 5th Floor
Western Express Highway, Andheri (East)
Mumbai 400 069 (India)
Tel. : +91 22 67728186
Mob : +91 9320888873
Fax. : +91 22 67728191
Email : italianmachinery@indiaitaly.com