

# ITALIAN MACHINE TOOLS, ROBOTICS & AUTOMATION INDUSTRY - NEWS

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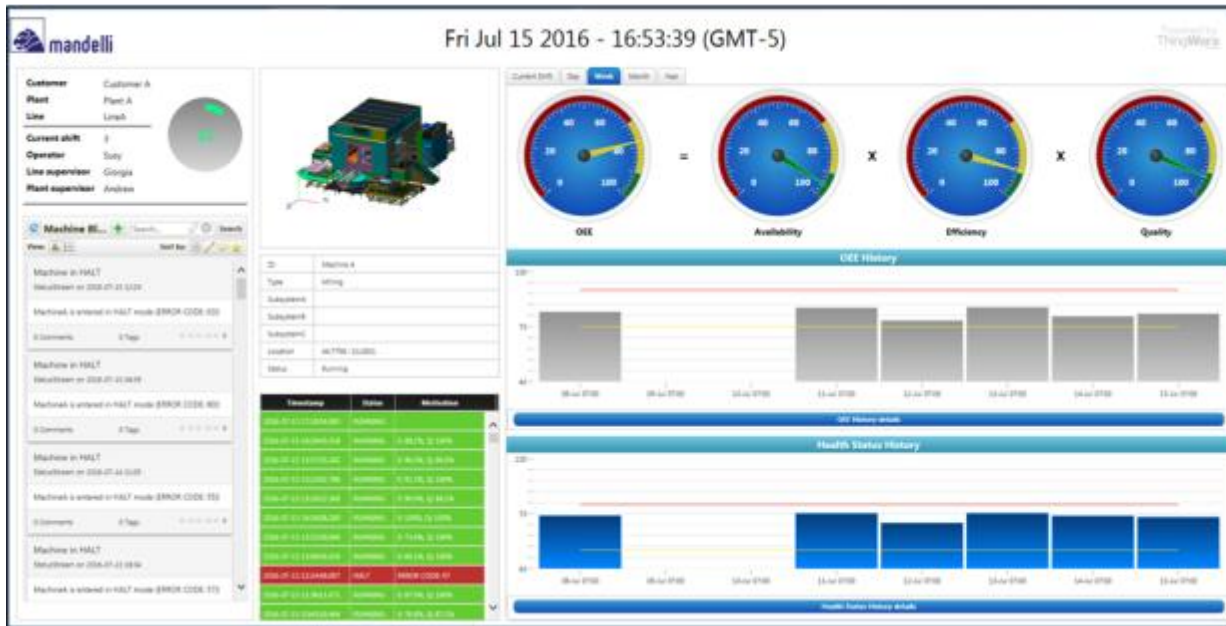
Piattaforma India Project

Newsletter No. 12



## **iPum@ - Horizontal Machining Centers new self-diagnosis and predictive maintenance service package**

Mandelli Sistemi SpA continues its innovation in the path of Industry 4.0 and the Internet of Things. The Italian company has recently developed for its Horizontal Machining Centers a new self-diagnosis and predictive maintenance service package. It is called iPum@ and it has been designed along three main lines, that is the NC connection and remote controlling with the possibility of accessing the HMC at any time and via any device (from PC to mobile), the HMC *sensorization* and the development of a self-diagnosis system allowing for predictive maintenance, not preventive. Thanks to the software computing abilities which are growing faster and faster nowadays, we can get a greater amount of data and, thanks to them, we can monitor the conditions of those parts of the HMC which are more subject to wear through vibration, temperature, acceleration sensors, pressure gauges and more. The iPum@ project is linked to the development of a self-diagnosis system that allows Mandelli to plan an intervention with a sufficient margin in time thanks to a request for maintenance which arises only when some anomalies are detected. Working both on the historical data and on the mathematical models of the parts subject to wear, this software can make very precise statistical calculations so as to predict a failure three days in advance and with a 97 % reliability. Thanks to iPum@, Mandelli will always be informed about the operation of its HMCs. A condition that allows the company to develop new businesses in terms of customer care by implementing, for example, warranty extensions based on the HMC real level of usage by the customer.



[www.mandelli.com](http://www.mandelli.com)

The project **Piattaforma India** has been promoted by UCIMU – Association of Italian Machine Tools Manufacturers and ASSOCOMAPLAST – 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  
Italian Machinery Desk In-charge 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](mailto:italianmachinery@indiaitaly.com)