

# ITALIAN MACHINE TOOLS, ROBOTICS & AUTOMATION INDUSTRY ~ NEWS

Jan 2023

PIATTAFORMA INDIA PROJECT

NEWSLETTER NO. 75



UCIMU-SISTEMI PER PRODURRE



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## **THE NEW ERA OF GIGA SPOTTING PRESSES:**

**A TREND THAT IS BECOMING INCREASINGLY POPULAR AND TO WHICH MILLUTENSIL HAS ALREADY SUCCESSFULLY RESPONDED**

The current trend in the mould-making field and, in particular, in the automotive industry, is to produce large sized moulds. This allows to simplify assembly processes and, consequently, to save both time and material, as demonstrated by big companies, such as Tesla.

With the aim of optimizing the production processes of the components of its cars, Tesla has decided to opt for the megacasting technique by using 'Giga Presses'. These are big die-casting machines that allow the chassis of new cars to be made from only two large parts.



This procedure saves around 70 components made from different materials that would be used with a conventional chassis. The front and rear megacasts are then assembled together with the new structural battery pack to form the underbody. This operation contributes to simplify the assembly phase and avoids the use of welds and bolts, resulting in a weight reduction of around 130 kg, excluding the battery.

MILLUTENSIL has already adapted to this trend by designing and successfully manufacturing the first GIGA die-spotting press, used for the adjustment of moulds of various types (thermoplastics, die-casting, thermosets, rubber and stamping). In particular, MILLUTENSIL has recently installed the largest and most powerful mould spotting press, the MIL 409, at Vetimec Dies & Special Components, based in Calderara di Reno, in the province of Bologna.

It is approximately 11 meters high and has a 4 x 4 meters floor. It has a load capacity of up to 160 tons on the lower platen and 60 tons on the upper platen, which can tilt up to 180°.

As the load capacity is very high, a new bottom platen handling system has been designed. During the pressing phase, the lower platen weighs directly on the ground, rather than on the press structure itself.

With this project, MILLUTENSIL has demonstrated its ability to successfully meet the challenges of an increasingly demanding market and to keep pace with industry trends.

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

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  
11th Floor, Tower - A, Urmi Estate 95, Ganpatrao Kadam Marg,  
Lower Parel (W), Mumbai 400013, Maharashtra

P: +91 22 67728186

Mob : +91 7666795385

Fax. : +91 22 67728191

Email : [italianmachinery@indiaitaly.com](mailto:italianmachinery@indiaitaly.com)