

ITALIAN MACHINE TOOLS, ROBOTICS & AUTOMATION INDUSTRY ~ NEWS

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PIATTAFORMA INDIA PROJECT

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UCIMU-SISTEMI PER PRODURRE



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THE TECHNOLOGIES OFFERED BY OMER A KEEP EVOLVING

WHY ARE THE NEW TECHNOLOGICALLY ADVANCED MACHINES OFFERED BY OMER A THE STATE OF THE ART OF THIS SECTOR?

Let's find out some reasons:

1. First of all, they are equipped with ever more advanced CNC control systems.

For example, the new trimming-beading machine R1600CNC, originally designed and conceived for the road signs production sector, has been equipped with a new CNC control system of the latest generation. This machine has already asserted itself for years as a revolutionary solution in the production of road signs of different shapes with its new version of 2023. The latest version guarantees not only a higher accuracy during the trimming and beading operations, but also a significant reduction of the cycle times.

In fact, the new machine R1600 CNC is a very interesting and appealing solution for applications in other industry sectors. In those cases, in which it is necessary to produce polygonal panels with different shapes and dimensions and variable profiles, the machine R1600 CNC ensures their realisation with minimal investment in equipment and allows the production of unique panels with captivating design; in particular it is getting more and more interesting in the furniture and air-conditioning sectors. The growing interest in this machine is also strictly related to its advantages regarding the flexibility of the machine itself that allows for a considerable reduction of the production costs. Therefore, it offers companies the possibility of realising samples and pre-series in order to evaluate the market response about the possible launch onto the market of a new product by limiting the costs of this phase. In addition, production costs are significantly reduced as panels are realised from flat metal sheet without the use of presses and dies.

A clear advantage is also given to the design engineer who can not only express his creativity, but also expand the range of products to be processed, even in relatively small series.

This is why the new trimming-beading machine R1600CNC represents both "a solution" and "a revolution" in the metal sheet deformation, as starting from a square blank you can get a customised finished panel. It can also produce flanged and beaded polygons with different shapes and dimensions, which otherwise should be realised only through stamping in several stages.



2. Artificial intelligence and automatic learning are technologies OMERA has begun to test on its machines and that will allow the monitoring of their performance, their predictive maintenance and the optimisation of the production processes.

3. Collaborative robots, also known as cobots, working side by side with human operators can already be integrated in trimming machines with manual loading and unloading of the workpiece in order to improve the efficiency and the safety of the production process.

4. The installation of technologically advanced sensors allows monitoring in real time the conditions of the machines and materials, contributing to the prevention of the machine downtime.

5. The OPC UA connectivity enables data collection for the analysis and the optimisation of the processes.

6. We will shortly integrate the augmented reality (AR) and the virtual reality (VR) in order to improve the training of the operators and be able to view the operating instructions by simulating the machining processes.

These are only some of the recent innovations that our company OMERA is implementing, and our path of constant evolution to improve efficiency and industrial productivity will still go on.

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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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