

ITALIAN PLASTICS & RUBBER PROCESSING MACHINERY INDUSTRY ~ NEWS

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PIATTAFORMA INDIA PROJECT

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CAMPETELLA ROBOTIC CALLING: A 30-DAY OPEN HOUSE ON IML TECHNOLOGY

Started on October 1, "Campetella Robotic Calling" is a 30-day open house organized by Campetella Robotic Center at its headquarters in Montecassiano (Macerata, Italy) to present latest generation robots and autonomous mobile robots (AMR) for increasing performances of its IML technology. Two special applications, which comply with the Industry 4.0, attracted the interest of visitors for the whole event.



An X-Series Mini-Modula compact side-entry robot from Campetella used for the IML of plastic yoghurt cups made of polypropylene. The robot is equipped with a quick and compact horizontal arm, responsible for very fast label inserting and product take-out operations. A tilting axis guarantees a hygienic process, which will end with the cups being stacked upside down with their openings on the conveyor belt. An additional advantage of the Mini-Modula consists in its extremely small footprint. It cooperates with the new X-Series CO1 Cartesian robot. Its electric servo axis is the right hand to move the stacks of cups from the conveyor to a storage box. An Omron AMR takes care of transporting the boxes to the finished goods warehouse. Full to the warehouse, empty back to the belt. The entire system is a four-cavity application with a total cycle time of no more than 2.0 seconds. The IMM interlock time is only 0.6 seconds. The two Campetella robots work hand in hand, thereby serving an Arburg Allrounder 570 H hybrid injection moulding machine with a clamping force of 1800 kN, and the inherent four-cavity mould from Simon respectively. The Italian label manufacturer Viappiani is responsible for the "L" label in the IML.

As for the second application, an X-Series Modula high-speed side-entry robot is used for labelling plastic cheese spread tubs in a Bazigos four-cavity mould. Four Mevisco cameras monitor the product quality inline and continuously. A very fast label feeder with servo drive is used on the robot, which manages the 5-sided Viappiani labels. Here again, the tilting axis perform hygienic upside down stacking of the tubs on the conveyor belt. With its high payload, an X-Series Spin3 Scara robot grips the labelled stacks and quickly deposits them in a transport box. Finally, another Omron AMR is in charge of storing the boxes in the warehouse. The entire automation system is used on an Arburg 630 H hybrid injection moulding machine with a clamping force of 2300 kN. Labelling takes place within a 4-second cycle and/or an IMM interlock time of only 0.9 seconds. The polypropylene raw material treatment is carried out by Moretto ancillary equipment and centralized cooling systems.

Campetella has designed the robot components in lightweight construction by making use of special materials originating from the aerospace industry or the competition vehicle sector. The robots are characterized by precision, reliability, robustness, permanent load capacity and operational speed. "We have spent the past months bringing new robot developments to series production readiness. The focus is on precision, speed, versatility, reliability, application-specific programmability and safety", Elia Campetella explained.

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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