

# Vial forming innovations from Indian specialist

Having improved production capacity with additional manpower, a different building and the introduction of advanced tooling machines, OCMI India is working to optimise its glass processing equipment, starting with the 16 station TAM vial forming machine, which represents the Ahmedabad factory's main product. Alessandro Crescentini reports.

Originally manufactured by OCMI India, the 16 station TAM16 vial forming machine was created to satisfy the expectations of local vial manufacturers looking for a simple index rotation machine, with good productivity and a reasonable price. Increasing local quality standards stimulated the company to study the latest developments and improvements to be applied to its machine in close co-operation with the Engineering Department at OCMI's Italian headquarters.

With a maximum mechanical speed of 1700 pieces/h, the recently announced TAM114 indexing rotation machine provides the same vial quality of European-made continuous rotating forming machines like FLA20 and FLA35 models, manufactured at OCMI's Italian facility. Several of the innovations applied to this machine are visible in the main mechanical, electronic and pneumatic components, in the devices aimed at improving glass tubing operations and to obtain the best final product in the context of hydrolytic resistance.

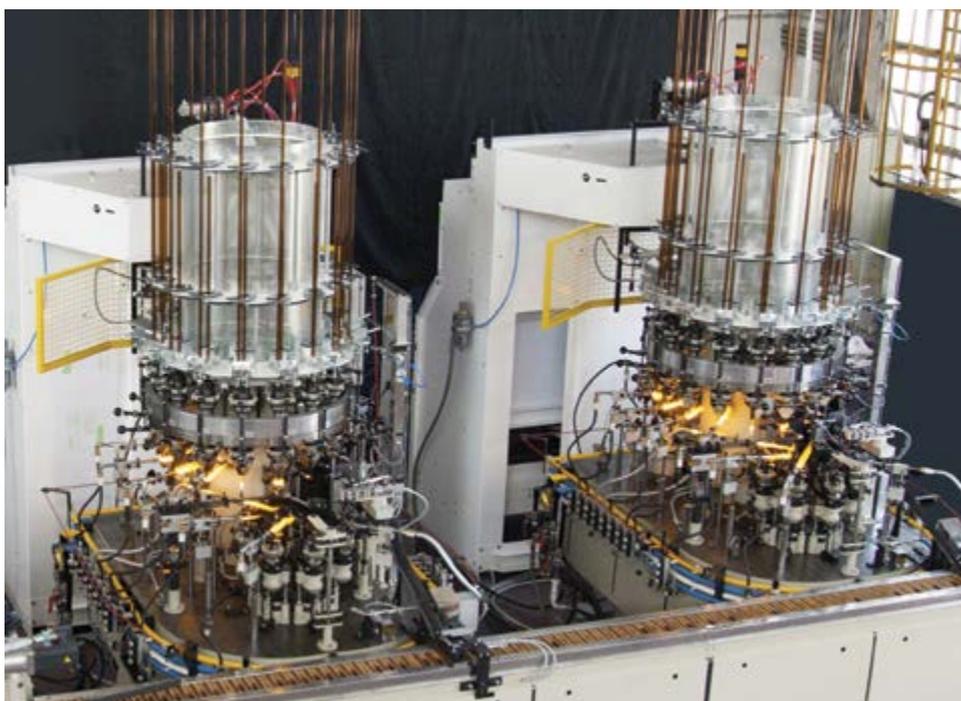
The control of machine functions is performed via a user-friendly touch screen, developed with the same graphics concept of other OCMI machines produced in Italy and France.

The TAM114 development completes the OCMI Group's equipment portfolio by covering the needs of factories more oriented to index rotation machines.

## CAMERA INSPECTION

On demand, the forming machine can be equipped with the OPTIVIAL camera inspection system for dimensional control. OPTIVIAL software can be implemented in the touch screen to attain a fully integrated control system from the cabinet.

This camera system was developed with the same concept



TAM114 vial forming machines in operation.

of the device already available for continuous rotation vial machines and allows users to check production in real-time, to detect any type of centering problem in the chucks and to verify accurate machine settings.

For the most advanced installations, the TAM114 machine can be adapted for connection to the ROBOGLASS automatic loader, in order to minimise manual handling of the glass tube.

## ADVANCED LUBRICATION

The oil pump design adopted for forming tool lubrication and all pneumatic components are sourced from leading European suppliers and the latest plunger lubrication system allows users to spray oil from inside the tool and consequently, to keep the machine in a clean working condition, without the risk of glass contamination.

A special piping and cabling

design was realised, with special attention given to safety conditions. In addition, the completely renovated chucks are manufactured according to OCMI vial and ampoules continuous rotating machines, in order to make the centering operation easier and more accurate.

Mechanical improvements have been applied to critical operations like glass tube bursting and cutting, where 'smokes' must be removed as much as possible from the glass surface.

OCMI and OCMI India can also provide post-forming lines, specially conceived to receive the output of two TAM114 forming machines. The first complete line was recently installed at one of India's biggest glass factories, located in Maharashtra. ■

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