



OCMI

## updates and developments in vial production lines

OCMI presents its latest developments and important upgrades for vial lines, enabling them to be connected to continuous rotation forming machines for medium-high productivity.

**O** CMI can supply a complete range of equipment for the production of tubular glass pharmaceutical containers which respond to each and every request coming from the market, offering the widest range of alternatives to glass factories and laboratories. One of the main purpose of OCMI's goal in 2018 is to consolidate its growth in the vial market, enhancing its presence, and its

latest developments are strongly oriented to this goal.

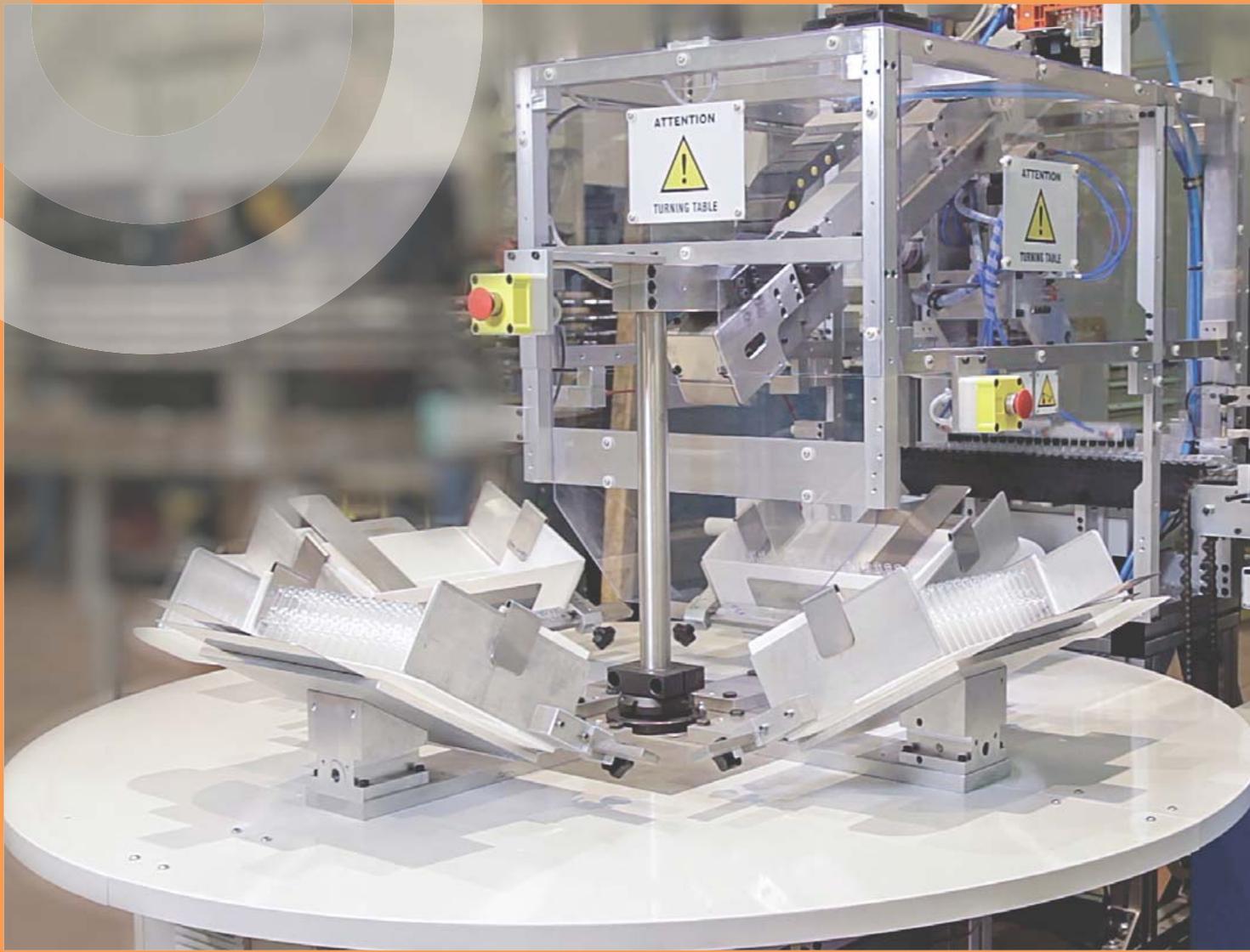
### VIAL FORMING MACHINES FLA20/S

OCMI manufactures three models of vial forming machines for medium-high production at its Milan headquarters.

The FLA20/S 20-station machine is the best solution for medium production, with the main advantage being speed but

also flexibility in job change and, of course, the maintaining of high quality standards despite the reduction in glass processing time.

The pre-forming of vial shoulders is realized with two tooling heads while mouth finishing is performed by means of one independent station with two rollers and a single plunger specifically made for vial under production. All tooling stations follow chuck rotation for their movement.



OCMI provides all the technical assistance needed for the development of the tools to be produced by customer, according to the vial specifications, both for standard type and screw-neck.

**FLA20/E**

The FLA20/E is OCMi's response to requests for speed and forming accuracy, and is another version of the 20-station vial forming machine. This model is equipped with an electronically controlled carriage, perfectly synchronized with the rotation of the main machine, handling two finishing heads with two rollers and one plunger each. This machine, with the same structure of FLA20/S

model, enables to process and finish two vial mouths at the same time, with consequent output increase. Moreover, the possibility to control the movement of the finishing carriage with PLC and brushless motors enables to adjust the timing of forming operations according to the type of vial mouth to be processed.

**FLA35**

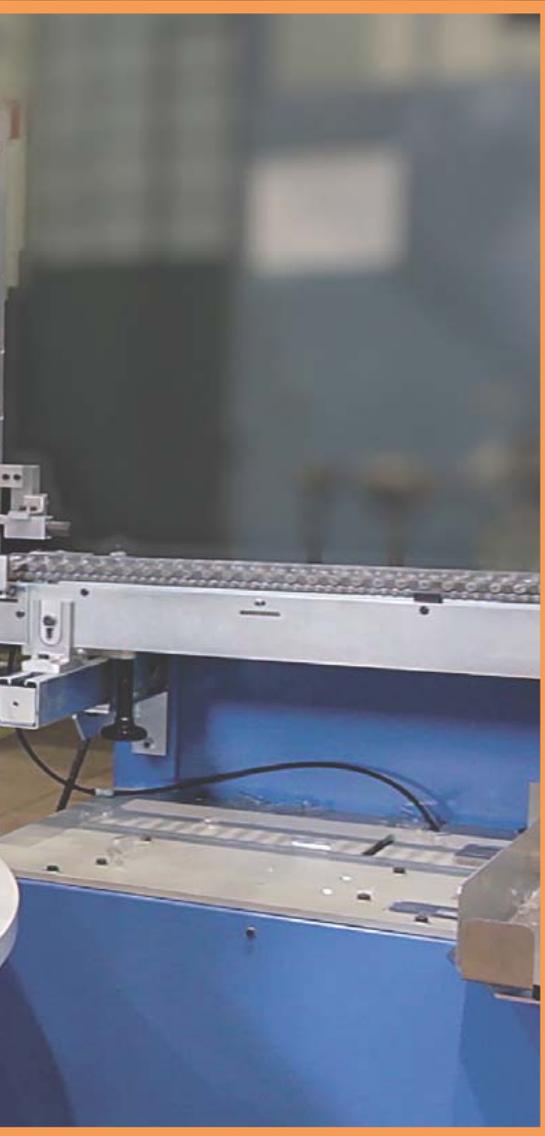
FLA35 is OCMi's highest speed vial machine. The main technical feature of this equipment consists in the main forming stations that are equipped with seven tooling heads moving on a rotating chain that is perfectly synchronized with

the main machine. This system allows each forming head to work continuously with the same spindles.

With this range of machines OCMi can offer solutions for maximum production speeds ranging between 2,800 and 4,500 items per hour.

All these forming machines can be equipped with the OPTIVIAL camera control system for the dimensional control of containers before unloading at the hot-end area.

All vial dimensions – except for total length – can be controlled by this system by capturing 15 pictures of the same container and calculating an average value for each value.



#### **VIAL AFTER-FORMING LINES** LF520 and LF535

The vial after-forming lines LF520 and LF535 have been recently upgraded with the latest generation of electronic compo-

nents for the control of synchronization with the forming machine and managing of after-forming operations.

The latest version of the annealing lehr is fed by a rotating manipulator with six mechanical grippers, to be adjusted according to vial length. This device picks up the vial from conveyor and places the units on the lehr belt consisting in a drilled wire mesh with six places per each row.

The vials are carried in horizontal position with the neck leaning on dedicated supports.

At the exit of the lehr, a second rotating pneumatic manipulator picks up the vials using vacuum cups and places them on the packing chain.

The annealing lehr consists of two heating sections where temperature can be brought up to a maximum level of 600°C and of a cooling section before the packing chain.

Packing operations can be carried out with traditional pneumatic vial pushing devices at the end of the line or by an automatic packing machine already prepared to be connected to the lehr exit.

#### **PM-V AUTOMATIC** **PACKING MACHINE**

The PM-V Automatic Packing machine, available with four or five box filling stations placed on a rotating table, solves problems

regarding friction and scratches that are typically due to traditional packing operations. There is no contact between vials thanks to the use of vacuum cups to pick them up from the chain and, therefore, the risk of scratches or breakages occurring during packing is minimized.

A presence sensor installed before the loading point of the packing machine detects missing vials and assures to fill complete vial rows in the box without any empty spaces.

The number of vials per each row and the number of rows can be set from the control panel according to the dimensions of the box.

Technical issues affecting line operations can be managed from OCMI's s thanks to remote assistance provided via the Internet.

#### **CONTINUOUS ROTATION** **TECHNOLOGY – IN EUROPE,** **LATIN AMERICA AND** **THE MIDDLE EAST**

Continuous rotation technology for forming machines proposed by OCMI has been chosen by vial manufacturers particularly in Europe, Latin America and Middle East.

OCMI strongly believes in this vial forming technology and the feedback from the market, particularly from Middle and Far East is supporting this orientation. ■



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