

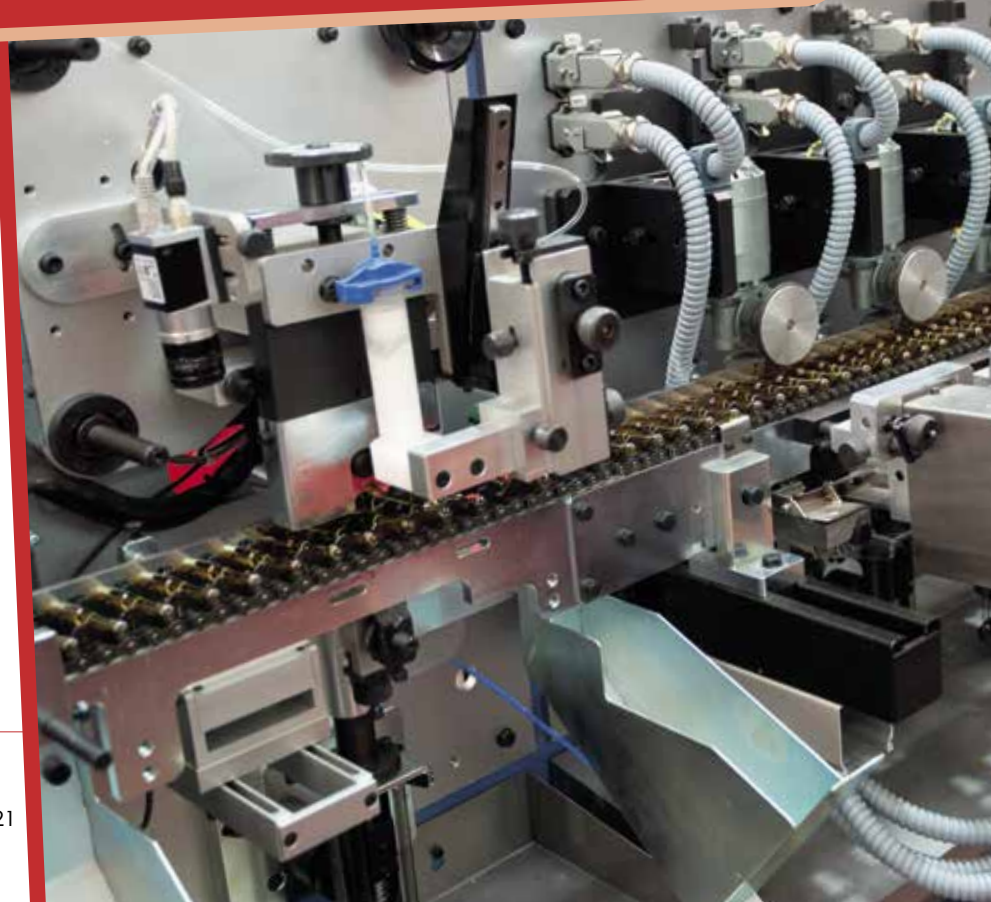
OCMI-OTG: flexibility, innovation and customer support

OCMI-OTG, worldwide supplier of complete lines for the production of tubular borosilicate glass containers for medical and cosmetic use based in Milan, Italy, is celebrating 100 years of activity. In its continuous search for growth and development, the company has acquired its competitor Kyp Accesorios, and now produces 30-station forming machines and the new FLA18 vial forming machines with index rotation.



OCMI-OTG AND KYP ACCESORIOS

OCMI-OTG acquired its former competitor Kyp Accesorios, the Spanish manufacturer of ampoule lines with almost 30 years of experience, in 2019. Thanks to the resulting combined know-how and comparison of skills, OCMI-OTG now introduces a completely renovated solution for the production of borosilicate glass ampoules, characterized by full automation, integrated function control and easier set up, resulting in a considerable reduction of dead times caused by job change.



30-STATION FORMING MACHINES

The 30-station forming machine, manufactured at OCMI factories in Madrid (Kyp Accesorios) and Chelles (Moderne Mecanique) are now available with an integrated separate control cabinet with touch screen for the full control of all machine functions such as loading, chucks and machine speed setting, cam setting and dimensional control of products through a camera.

The software of the touch panel can be updated with an automatic loader control if this complementary equipment is installed. Stations can be loaded during machine setting for new ampoule production, or excluded from loading if maintenance is needed.

Alarms for any malfunctioning can be checked directly on the screen, and a Hold Cycle function can be activated in case the tubes over the loading stations

need to be lifted to undertake maintenance operations.

NEW MOTORS MEET ENVIRONMENTAL REGULATIONS

The after-forming line has been upgraded with a new family of motors and servo-motors with drivers controlled by the same PLC. The motor's parameters can be managed from the all-in-one integrated panel. These new motors grant more efficiency and are manufactured in full compliance with current environmental regulations, especially the new resolver mounted on V-chain motor, which allows a significant reduction in noise during its operation.

SINGLE INTEGRATED PANEL CONTROL

One of the main features of OCMI upgraded ampoule lines consists in the possibility of centralizing the control of all functions. This means that all operations related to colour rings, OPC, printing, Form B cutting and Form D closing (if present) can be managed from one integrated panel.

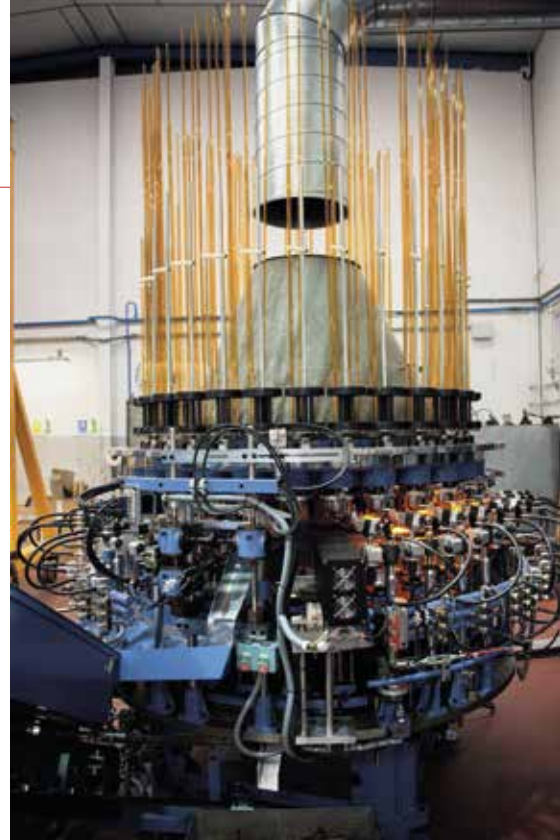
Remote visualization

The control software, available in multiple languages, also offers the possibility of remote visualization of the same screen pages on portable devices such as mobile phones and tablets.

IMPROVEMENTS REDUCE DEAD TIME

The improvements applied to the new ampoule line recently developed by OCMI at its Spanish factory of Kyp Accesorios reduce job change times and manual handling of each device, thus improving daily productivity.

Setting recipes can be saved inside the line control panel with names and recalled if necessary for future production batches.



Electronic control can also be extended to ampoule lifting devices of the different processing stations which are driven by electronic parametrizable cams. Statistics concerning production and working shifts are available to be uploaded from the panel.

NEW ITALIAN SHOWROOM

This completely renovated ampoule line was officially introduced by OCMI at the beginning of October 2021 in its new showroom set up at its Milan headquarters. Customers who are interested in seeing the machine in operation are welcomed to Milan's OCMI facilities or have the possibility to follow webinar sessions in direct connection with OCMI commercial and technical staff obtaining answers to any questions in real time.

FLA18 VIAL FORMING MACHINE

The new FLA18 vial forming machine with index rotation, already available in OCMI's range of solutions, is also ready for tests and inspections. With its 18 upper stations and nine lower stations, the machine assures maximum productivity even in the event of one lower station being out of service.





The machine has been developed to reach a maximum output of 55 pcs/min. with 2R vials, with the possibility of processing glass tube diameters from 10mm to 30mm.

Turret rotation is driven by torque-motor that is supplied together with a water chiller for cooling which can also be used for cooling the forming plungers.

Forming operations are performed through three stations respectively dedicated to roughing and shoulder preparation, pre-finishing and finishing. As in OCMI continuous rotation forming machines, these stations follow the rotation of upper chucks through rotating bearings mounted on forming heads making any manual alignment with chucks unnecessary. All these three stations can be removed to make maintenance and job-change operations easier.

Tools, plungers and rollers are servo-driven, making setting and forming operations more precise and smoother. This feature enables adjustment of the parameters

related to tools, starting/ending position and their acceleration from the machine control panel.

OPTIVIAL CAMERA SYSTEM

After mouth forming, main dimensions can be controlled by the Optivial camera system. This new generation camera takes up to 15 pictures of the same rotating vial allowing for a more precise average value for each dimension.

Servo-motors also drive the setting of tube receiving plates and cutting stations.

Nine lower chucks of the lower turret are driven by independent motors. Before unloading the device, a dedicated station flattens the bottom through a containment buffer.

Lower chucks are equipped with blowers enabled by solenoid valves, aimed at removing smoke from the inner side of vials in order to keep alkalinity into limits fixed by ISO standards.

NEW AFTER-FORMING LINE FOR THE FLA18

The new after-forming line

specifically developed in connection with the FLA18 machine is under development and will be ready by the end of 2021. ■



OCMI



**MODERNE
MECANIQUE**



**KYP
ACCESORIES**

OCMI-OTG S.p.A.

Via Venezia Giulia 7
20157 Milano (Italy)
Phone: +39-02-3909181
Fax: +39-02-3570944
E-mail: info@ocmigroup.com
www.ocmigroup.com