

INNOVATIVE SOLUTIONS
FOR THE GLASS INDUSTRY

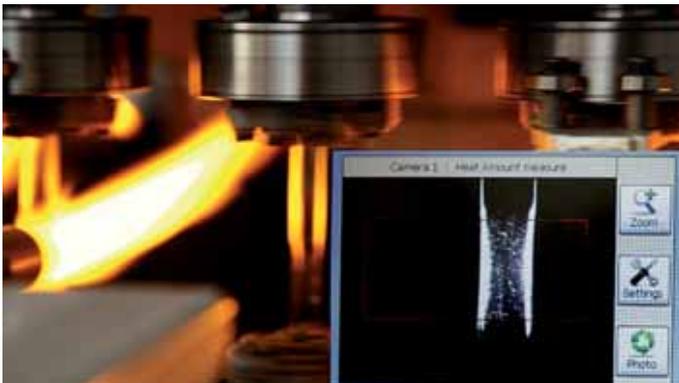


CAMERA INSPECTION SYSTEM OPTI STEM/2



OPTI STEM/2 is an automatic stem regulator to be installed in our new or existing machines FA-36S or MM-30 models for self-adjustment of the ampoules stem diameter during the forming operation and the dimensional control of all ampoules diameters (except the total length). The system is equipped with the following devices:

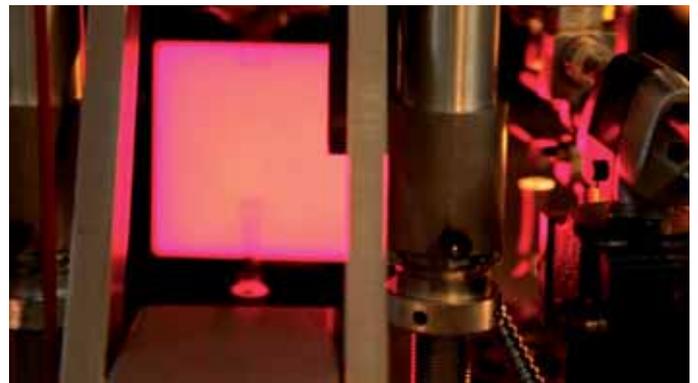
FIRST CRC CAMERA



This camera installed in fix position before the stem forming section arranges the control of the glass tube heating levels and send a signal to the proportional valves of the last two pre-heating burners.

This self-adjustment wants to compensate the variations of heating level in the tubes.

SECOND CRM CAMERA



This camera installed in fixed position makes a dimensional control of finished ampoules before unloading. The control is made on all the main ampoule dimensions (except the total length) and stem eccentricity.

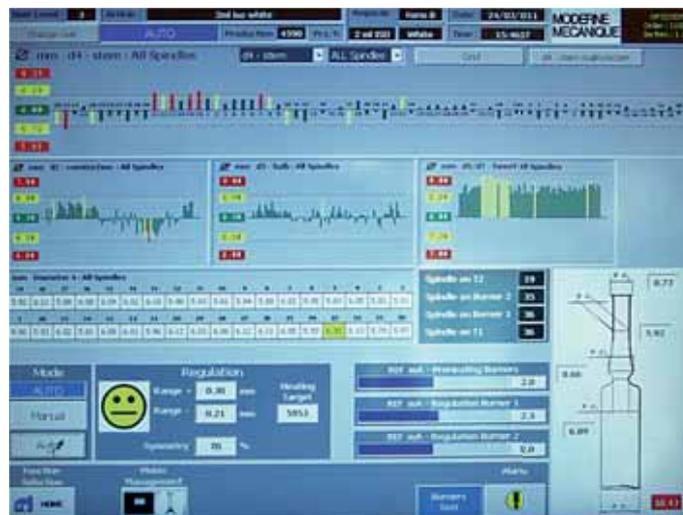
According to these information out-of-tolerance ampoules are automatically rejected.



SEPARATED CONTROL PANEL

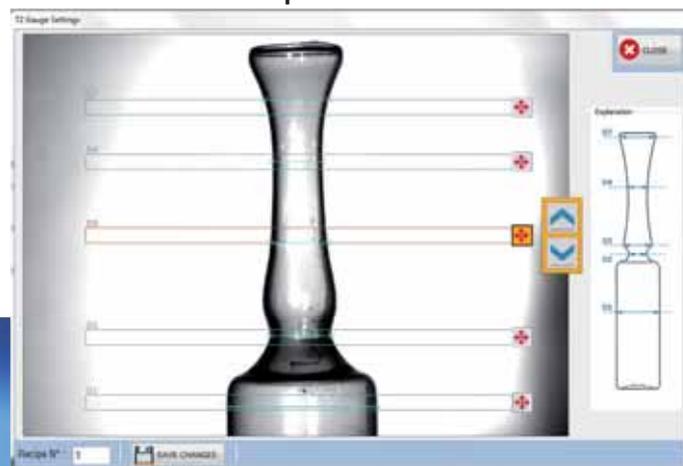


Through this touch-screen panel, the operator can control all the main parameters of ampoules processing in real time. Furthermore the system memory includes all the fixed dimensions of DIN ampoules while extra-DIN dimensions can be edited manually and saved in separated folders.



Main page of control panel with control of diameters trend and work of proportional valves in pre-heating burners

Manual selection of ampoule sections for diameter control



SYNTHETIC TABLE OF THE CRC AND CRM OPERATION

	CRC	CRM
When is working?	Always	From the second machine rotation
How the sample value is acquired?	Through the self-learning from the production of ampoules with correct stem dimension	Through a defined value of the ampoule stem
How the last heating burners regulation is adjusted?	During the self-learning operation the system will generate the values for the heating burners self-regulation	The system will match the diameter of the stem of each chuck with the self-regulation value



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