



AUTOMATIC TUBE LOADER ROBOGLASS



ROBOGLASS is used for glass tube loading on machines with continuous or indexed rotary movement. ROBOGLASS runs its loading cycle in the following steps: loading of tubes in the deposit, picking of the single tube, lifting up to the correct height, tube gripping and overturning to loading position, tube loading into supporting system in pre-loading position and, after, in loading position. The equipment works through pneumatic actuators managed by PLC synchronizing their movements.

Suitable to be connected with all OCMI forming machines for ampoules, vials, droppers and cartridges.

Tubes deposit

The loading area is composed of two loading supports where the operator can rest the bundle of tubes to be inserted into loader deposit.

The loader deposit is prepared to hold the tubes that are waiting to be picked up by the separator. It can be closed by a pneumatically controlled upper door.

Lifting mechanism

A pneumatically controlled tubes separator picks the single tube from the bundle and takes it into the lifting position.

The lifting system, working through a pneumatic



piston, allows to bring the tube up to the loading height.

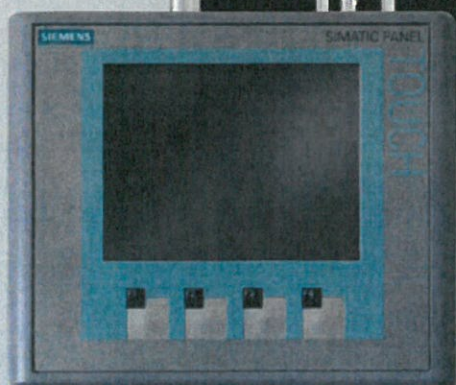
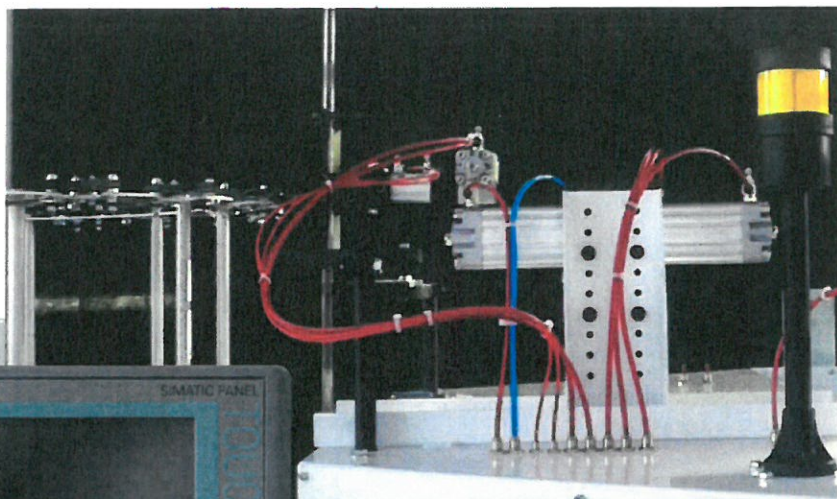
Loading area

Placed on the top of the loader, it consists in a robot including pneumatic actuators with the function of rotating the tube and positioning it in the tubes supporting crown. It's equipped with a sensor detecting the missing tube in the loading position.

The loading arms are pneumatically controlled for the tube positioning in the pre-loading position and, finally, in the loading position.

Tubes supporting crown

The tube supporting system is made of three series of shaped crowns. The upper two are equipped with gripping chucks while the lower one holds the reductions and loading stations for the tube flowing into the chucks.



GLASS TUBE CHARACTERISTICS

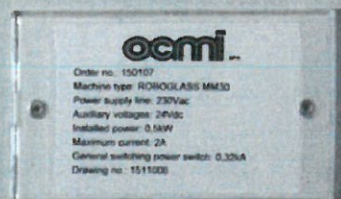
Glass tube \varnothing	8-35 mm
Max tube lenght	1500 mm
Max tube weight	500 gr

AVERAGE CONSUMPTIONS

	Consumption	Pressure
Compressed air	2,5 m3/h	4-5 bar
Installed power	0,5 Kw	

MACHINE GENERAL CHARACTERISTICS

Dimension (l x w x h)	1600 x 1570 x 2100 mm
Weight	500 kg



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