

INNOVATIVE SOLUTIONS
FOR THE GLASS INDUSTRY

ocmi
MODERNE
MECANIQUE

AUTOMATIC AMPOULE MAKING MACHINE MM-30



Thirty stations continuous rotary motion machine with vertical spindles produced in French factory of MODERNE MECANIQUE with really sturdy structure, assuring faultless operation for many years, for the production of glass ampoules with diameter from 8 to 22,5 mm and speed between 1900 and 5000 pieces per hour.

Upon request of the customer the machine can be equipped with OPTISTEM/2, the camera control system for self-adjustment of oxygen level in the last two burners before neck forming and for dimensional control of finished ampoules.

The design assures quick heat removal and consequently the perfect alignment of upper/lower chucks without risks of deformation due to high temperature.

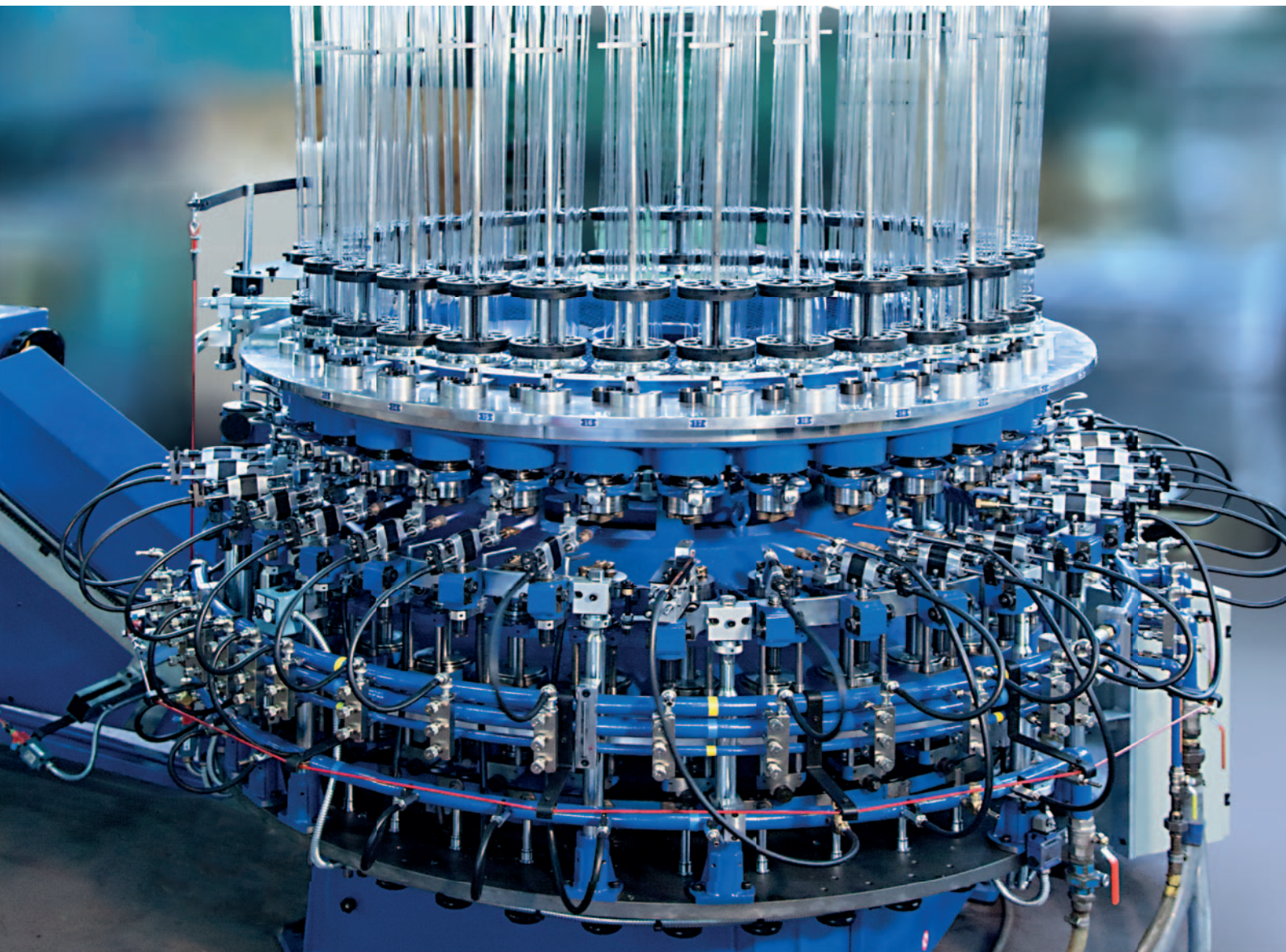
Main body and chucks

Frame and carousel made of grey iron with most of part produced on ultra-modern numerically controlled machines: this guarantees high output and the greatest accuracy over a long period of time.

The carousel is designed in such a way that the bearings are not located in the heating area.

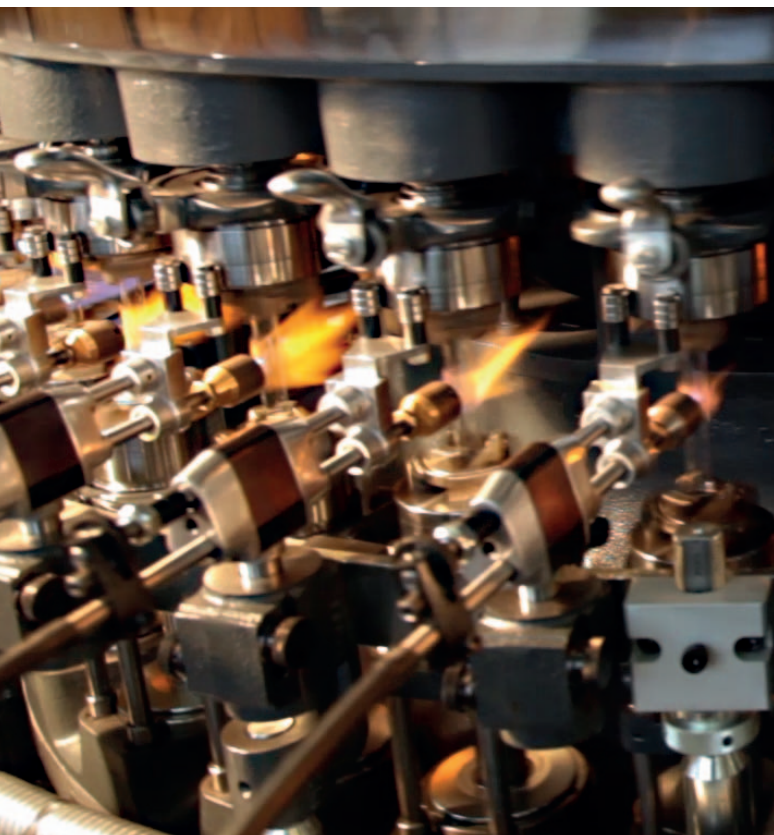
All rotating elements are mounted on ball-bearings. The rotation speed is adjusted by an individual drive, with which the speed of rotation can be set according to the method of production and independently of the machine's working speed.

Upper and lower chuck (30 + 30), are produced with simple and sturdy structure assuring an high degree of flexibility and reliability in operation.



Programmable Logic Computer

The machine is equipped with a PLC that, among other functions, is able to program the production of shorter first ampoule in order to reduce the glass waste.



Tube loading

In the standard version the machine is equipped with 30 Revolving turret feeders with 8 lodges each or, as an alternative, it can work with an automatic loader ROBOGLASS as a faster loading option to be supplied together with the machine or separately.

The automatic loader guarantees up to about 7% higher output with no increase in energy consumption but giving an effective advantage in terms of manpower management.

Heating rails

Heating rails are easily adjustable through a single control wheel. On the other hand for the neck and bottom forming, the rails can be adjusted either individually or all together, depending on the size and shape of the ampoule.

Top quality burners are adjustable in height with independent gas mixture regulators.

Burners

MM30 is fitted with top quality burners which can be adjusted in height and fed by fluids mixture adjustable with independent regulators.

Properly adjusted burners allow to produce flame-cut ampoules instead of cutting in the line and waste glass.

MACHINE TECHNICAL CHARACTERISTICS

Overall ϕ	2.000 mm
Height (without hood)	1.760 mm
Weight	3.100 kg
Gross production	4.800 pcs/h

AMPOULE CHARACTERISTICS

Glass tube ϕ	8-22,50 mm
Max ampoule length	180 mm

AVERAGE CONSUMPTIONS - FLUIDS PRESSURES

	Consumptions	Pressure
Propane	1 - 4 m ³ /h	0,6 bar
Town gas	4,5 - 20 m ³ /h	0,6 bar
Natural gas	2,5 - 10 m ³ /h	0,6 bar
Oxygen	1 - 4 m ³ /h	0,6 bar
Combustion air	23 - 100 m ³ /h	1 bar
Compressed air (with line & closing ampoule system)	10 - 20 m ³ /h	6 bar
Installed power	4 kW	

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