

GASKET LP



POLYURETHANE
GASKET
SYSTEMS



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GASKET LP

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The polyurethane **GASKET LP** system represents a very important segment in the wide range of machinery offered by Europoliuretani.

The series **GASKET LP** is composed by a low pressure dosing unit for bi-components polyurethanes and either by a cartesian robot with 2 or 3 axes or by an anthropomorphic robot: together they create the necessary conditions for dispensing a quantity of product in order to obtain a gasket applied directly on the panel/artifact.



CARTESIAN ROBOT

This type of robot is particularly indicated for extending the gasket on plane surfaces. The principal application fields are the following: electric panels, industrial and non industrial filters, air conditioning panels, etc.

It is sufficient to lay the panel in the appropriate loading bed, directing it to "point 0" and, after receiving the start from the operator, the system will read automatically the measures and will proceed with the applying the chemicals.



STANDARD CARTESIAN ROBOT OVERALL DIMENSIONS*

GENERAL FEATURES STANDARD CARTESIAN ROBOT	MEASURES	MEASURE UNIT
Worktable *	2300 x 1300	mm
Adjustable progress rate*	200 x 200	mm
Minimum panel for automatic reading *	da 15 a 500	mm
Robot maximum dimensions	max 500	mm/sec.
Panel height	3200 x 4100	mm
Table height for panel positioning	800	mm
Estimated weight	2000	kg

* Other measures upon request

Using the third axis, both in manual mode and in automatic mode (optional), the height of head can be regulated according to the artifact to be garnished. Once established the distance between the panel's edge and the point in which the application has to start, the robot will operate automatically.

Upon request it is possible to have a robot with double station: while you are applying the gasket at the first station, you can load a new panel, ready to be used, in the second one.

ANTHROPOMORPHIC ROBOT

In case of using the anthropomorphic robot, which is different from the cartesian robot for its articulated arm, it is possible also to apply the gasket on the artifacts with non-linear surface. This type of robot is the most suitable in the fields of illumination, automotive, paneling, etc.

CHEMICALS

In order to satisfy the various necessities of the customers, Europoliuretani offers a lot of types of chemicals. The principal subdivision is between two categories: thixotropic and non-thixotropic product. Usually, the first is applied on plane surfaces; the second one, instead, is normally applied on hollow surfaces.



Consequently, in **GASKET LP** system both type of chemicals can be used, by adding a third tank and a second distributor in the mixing head (both optional). The operator will choose which components to select on the basis of his necessity.



- 1 Example of panels with gasket
- 2 Gasket application on electric panel
- 3 Gasket application on filters with cartesian robot

MIXING HEAD

The dispensing head provides an innovative system of mixing of the components, called “double mixing with L room”.

The innovation of this injection system is the optimization of mixing of chemicals that happens in 2 phases.

During the first phase, the product is placed in the first mixing room, through adjustable injectors, in which the two chemicals are mixed following a clash. A valve is used both for opening and closing the injectors and as self-cleaning.

During the second phase, the product is injected in the second room in which, through a mechanic stirrer, a further mixing takes place.

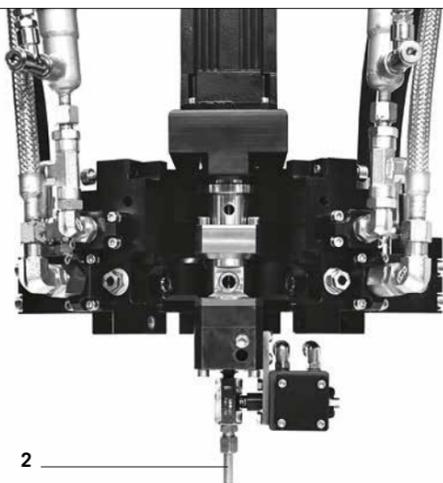
This room can be cleaned with a small quantity of solvent and compressed air, both inserted by an injector.

Particular attention has been paid to the design for the maintenance of the whole mixing head, especially for those particular parts subject to normal wearing and cleaning.

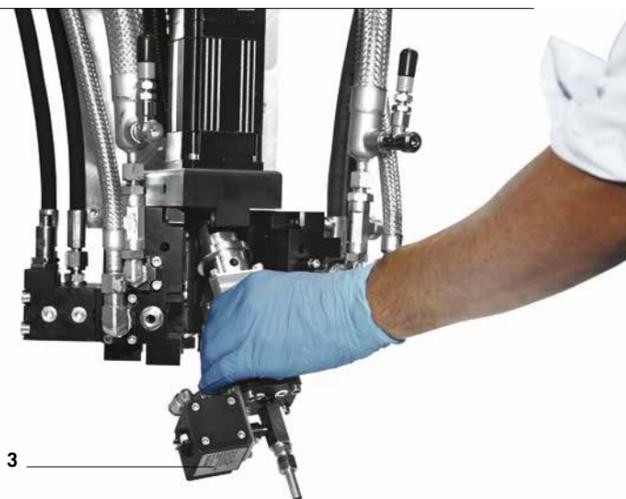
In fact, thanks to the central “book-like” opening of the head, the heart of the head can be reached in a few seconds and quickly perform the necessary maintenance or replacement of parts.

1

- 1 Closed injection head with double injectors
- 2 Opened injection head
- 3 Disassembling/substitution of mixing group



2



3

DOSING UNIT

Series **GASKET LP** is a low pressure and very low flow dosing machine specifically designed for dosing and mixing bi-component polyurethanes.

The dosing group is composed by 2 volumetric helical teeth gear pumps that, extracting the product from the 2 pressurized tanks, transmit the fluids to the mixing head through low pressure tubes with double room.

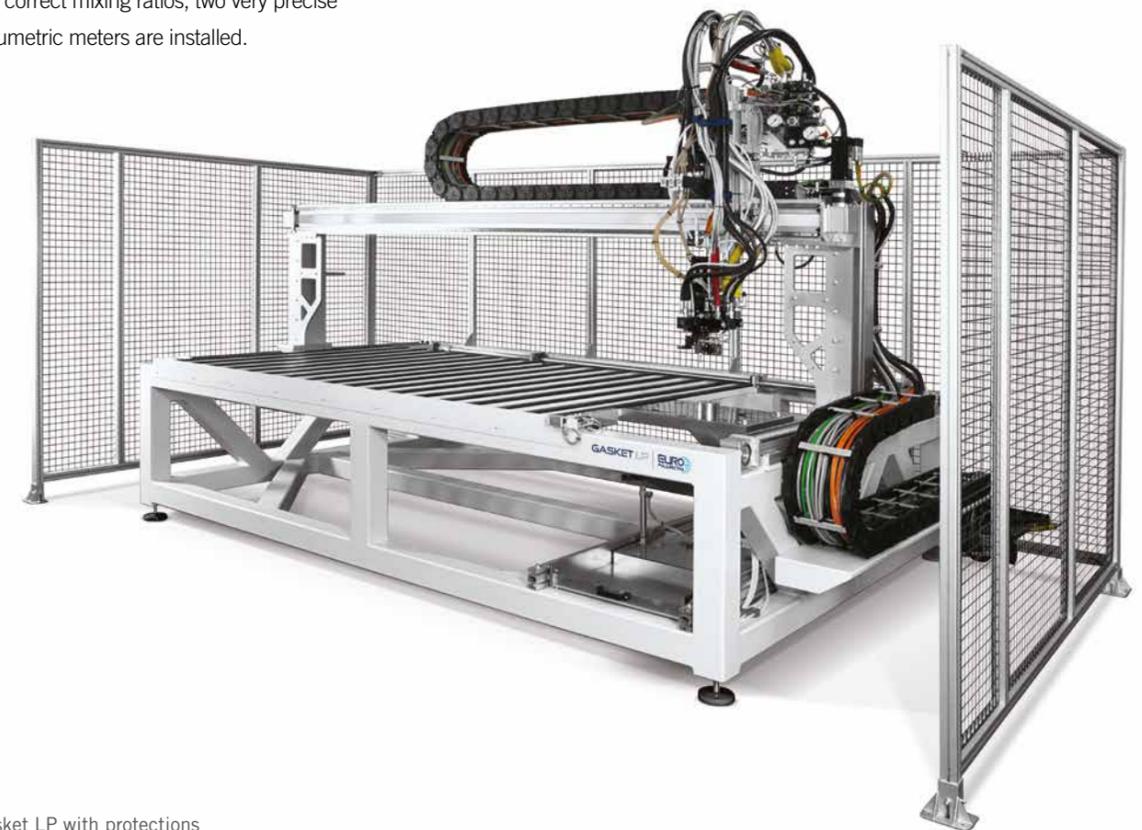
The tanks are equipped with an interspace where a liquid for hot/cold thermoregulation flows and are also thermo insulated from the outside.

In addition a stirrer driven by a gear motor is installed to always keep the products well mixed and homogenize the temperature of the same.

For the electronic control of the flow and of the correct mixing ratios, two very precise volumetric meters are installed.



Dosing unit with two and three components



Gasket LP with protections



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