OPERATING MANUAL

MATRIX M10

Mixer for solvent-free bi-component adhesives



TRANSLATION FROM THE ORIGINAL INSTRUCTIONS

TO DE LOUNA MEGOVANION

VEA SIRL

Via 29100 Portapuglia, 19 Piacenza, ITALIA 0523,592168

Telefono Fax.

0523,570088

SECT 2

Description of the machine

This mod. M10 mixer built by VEA S.r.I. is designed to mix and dispense bi-component adhesive, formed by a BASE and a CATALYST; it is used mainly to provide adhesives for the bonding of film, whether for the food industry or other sectors.

The machine is equipped with two gear pumps, driven by two gear motors, which are controlled by two inverters.

This mixer features two plates that are heated by a system of resistors designed to heat the two extractable tanks, in order to obtain a greater degree of fluidity of the components.

Each tank has a level sensor, temperature probe and pressure transducer fitted downstream from the pump. This machine is also equipped with a heated dispensing tube, whose temperature is controlled by a probe. All machine functions are managed by a PLC; the machine-operator interface is managed by a Touch-Screen display, allowing for guick and intuitive interaction.

The material is dispensed by means of a casting head fitted with a static mixer and casting protection filter, avoiding excessive gushes of adhesive material which can otherwise stain the material being bonded. During operation, the casting head positions itself above the dosing rollers.

This installation includes an automatic tank feeding system, comprising two pneumatic pumps which draw the components directly from the drums and feed them to the tanks, by means of two flexible tubes, of which the tube carrying the base material is heated.

Using ultrasound level sensors, this system maintains the level of the components constant, thus avoiding the continuous manual filling of materials.



Figure chap. 2

SECT 3

Technical specifications

ELEMENT	SPECIFICATIONS
Height	1150 mm
Width	1170 mm
Depth	1000 mm
Net weight	290 kg
Tank capacity	40 I
Pneumatic Supply	Max 6 bar
Supply	200 / 240V Monophase 50 / 60 Hz
Installed power	3 kW
Base pump motor	127 / 220 V 0.55 kW
Catalyst pump motor	127 / 220 V 0.55 kW
late resistors (3 for each plate)	230 V 300 W
Heated mixture dispensing tube	48 V 250 W
Heated base feeding tube	48 V 500 W
Auxiliary voltage	24 V DC
Temperature probes	PT 100
Capacity at 50:100 ratio	2 l/min