

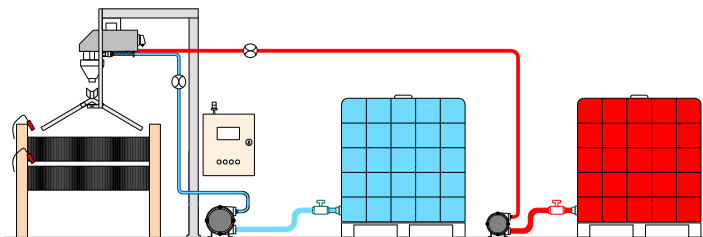
# Automatic Glue mixer MLL

**Automatic glue preparation 2 or 3 liquid components**  
**Ratio control and glue amount calculation**  
**For urea formaldehyde, melamine, resorcinol glues, EPI....**

## Mixer working

The mixer included a mixer unit in which arrive by volumetric pumps the components to mix. The regulation of the ratio is made by speed variation. Connections of the circuit (components) are fast type with incorporated filter facilitating the fast change of containers or drums. Maintenance reduced to the minimum.

Considering the multiple possible configurations we recommend a study for every case.



The mixer works automatically when one of level sensors measures a low level of glue in the spreader, components arrive instantaneously to the dynamic mixer with disk and the mixture is falling down in continuous in the spreader rollers (up and bottom according to the activated detector). In case of absence of one of components an alarm is activated. When the level of glue in rollers is re-established, the mixer stops.

## Ratio control and glue amount calculation

The glue mixer MLL is equipped (option) with a control system:

### Ratio control:

2 flowmeters check the glue and hardener flows.

The PLC adjust automatically the correct ratio depending of the reference and tolerances.

In case of wrong ratio, an alarm is activated and the mixer is stops.

The screen board informs about the glue and hardener consumptions.

### Statistic glue amount calculation:

The screen board inform about the glue amount (upside and backside) deposited on the board.



## Advantages

Accuracy of mixture ratio.

Constant viscosity of the glue mixture in the spreader avoiding variations of glue amount and over consumption .

More reactive mixtures use optimising the production.

Elimination of unproductive times on the gluing process.

Fast and simplified washing.

Ergonomics of the spreading station and elimination of product manipulations.

Respect of the environment, minimisation of lost glue and wash water.

# Technical specifications

## Glue mixer

Flow:	2-20 Kg/min according to model
Construction:	Rustproof material for pieces in contact with components
Module mixer:	Dynamic with air motor variable speed
Pumps:	Peristaltic or gears
Quick connections for the pipes	
Electrical connections:	380 V + neutral
Control cabinet:	PLC, display, IP 55, transformer built-in 24 V
Air pressure req.:	5-7 bar
Air volume req.:	Aprox. 600 l/min
Glue level control:	Photo sensors

## Configuration possibilities

- Mode: Semiautomatic, automatic and batch, 1 or 2 sides spreading
- 2 or 3 components
- Several mixtures programmed
- Temporizations level / alarms
- Information of maintenance and control



## Ratio control and glue amount calculation

2 Electromagnetic Flowmeters

Accuracy: 0,5%

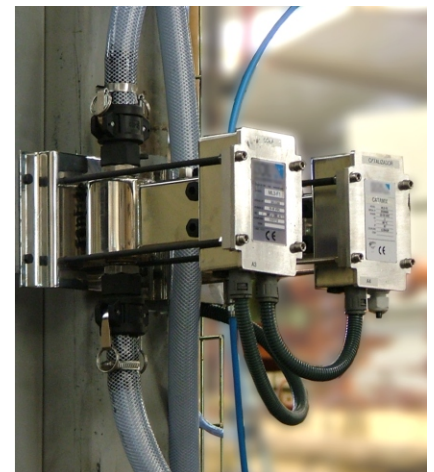
Electrical connexions: 24 V DC

Data on display:

- Ratio Glue/Hardener
- Glue flow in Kg/min
- Hardener flow in Kg/min
- Glue amount in g/m<sup>2</sup>
- required ratio and tolerances
- Alarm messages
- Last 8 ratio calculations
- Glue consumption
- Hardener consumption

Ratio regulation

Modbus - Ethernet (option)



## Option: Cooling system

Refrigeration of all spreader types and glue tanks



## Option: MPL mixer

Automatic mixing in continues for powder components

Example :  
UF glue  
Floor  
Water

