



METER · MIX · DISPENSE

## ladomix G-SF

METERING AND MIXING ADHESIVES  
FOR THE FOIL LAMINATION PROCESS  
WITHIN THE PACKAGING INDUSTRY



**HILGER&KERN**GROUP

# ladomix G-SF

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The ladomix G-SF is a compact mobile metering and mixing system with gear pumps for laminating processes in the packaging industry. It can be used to dose and mix solvent-free, self-levelling two-component polyurethane laminating adhesives in a mixing ratio of 100:100 to 100:10. The material is then metered into the gap between the rollers of the laminating machine and applied to the outer film of the packaging. This is then bonded to the inner film.

## Functions

To supply the material, vessels with a volume of 60 litres are used, which are refilled automatically by the use of vacuum suction lances as standard or optional via refilling pumps. Analogous rod sensors control the material level permanently. The metering is done by three phase asynchronous motor driven gear pumps which are mounted inside the vessels below the material level. Each gear pump is protected against over pressure as standard. The ladomix G-SF is controlled by a metering computer with touch screen. The machine is equipped with a static mixing system that includes a 2K valve combined with a disposable static mixer. If mixed material cured in the mixer, it can be replaced easily and inexpensively, thus a time consuming, expensive and environmentally damaging flushing cycle is not required.

## Features and Benefits

- Gear metering pumps mounted inside the vessels and below the material level, hence
  - reduction of maintenance through elimination of inner pump sealings
  - no pump sealings between material and atmosphere (no material leakage)
  - no pressurization of material vessels, therefore no air drying is required
  - optimal material conditioning
- Vacuum processing, therefore
  - refilling of material could be realized via suction lances to avoid production stop (depending on viscosity)
  - no material loss while using refilling pumps (no deaeration necessary)
- Standard system can be extended by options, thus all common laminating adhesives can be processed

## Equipment

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### Standard

- Control cabinet mounted onto a movable chassis
- Material vessels with
  - level control
  - connection for vacuum pump
- Automatic refi ll via suction lances from vacuum
- Manual degassing via diaphragm vacuum pump
- Gear metering pumps with over pressure protection.  
The gear metering pumps are mounted below the material level to meter from vacuum.
- Static mixing system
  - 2K valve
  - disposable static mixer
- Metering computer with Real Time Multitasking Operating System (64 programs could be stored)
- Touchscreen
- Internal USB interface with Backup- /Restore Function

### Optional

- Refilling pump
- Silica gelfilter for drum ventilation
- Proximity switch for position control of the ball valves for refilling
- Material filter at vessel inlet
- Heating
- Mixing ratio control
- Mixing ratio regulation
- Pump checking program incl. rotation speed monitoring
- Various dispensing systems
- External USB interface
- Weekly / daily timer
- Level control in the roller gap with alternatively start/ stop mode or continuously controlled output rate and automatic layer thickness calculation

## Technical Specifications

<b>Flow rate</b>	up to 4 l/min, depending on mixing ratio and viscosity
<b>Mixing ratio</b>	100:100 to 100:10, by volume
<b>Maximum working pressure</b>	70 bar max.
<b>Mixing system</b>	static
<b>Material supply</b>	Material vessels 60 l
<b>Viscosity range</b>	100 to 50.000 mPas (for processing temperature)
<b>Materials</b>	Polyurethane, Epoxy, Silicon
<b>Material characteristics</b>	Unfilled
<b>Power supply</b>	3 x 400 V / 50 Hz / 32 A
<b>Maximum air inlet pressure</b>	6 bar max.
<b>Dimensions, L x W x H</b>	approx. 1.330 x 1.210 x 1.560 mm
<b>Weight</b>	approx. 470 kg





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