METER MIX

A MEMBER OF THE
HILGER&KERNGROUP

LiquidFlow

LiquidFlow 30

Compact machine for potting, bonding and resin injection applications



The LiquidFlow 30 metering and mixing system revolutionizes your resin dispensing process: With our high performance gear pump technology, you will produce higher quantities in less time with improved quality.

TECHNICAL DATA

Ratio range capability	1:1 to 100:1 (Depending upon pump selection)
Viscosity acceptance	Typically up to 15,000 mPas (Or higher when fitted with optional heating system). Up to 500,000 mPas when processed from transfer feed systems (Depending upon material thixotropy).
Shot size	Available from approx. 1 ml upwards
Flow rate	Up to approx. 2.3 lt/minute (Depending upon viscosity and size of pumps)
Mixing	Disposable Static or Rotary/Static
Reservoir capacity	6 lt (1,58 US gal) or 12 lt (3.16 US gal)
Electric supply	230 V / 50 Hz or 110 V / 60 Hz AC
Compressed air	80 p.s.i.
Dimensions	769W x 730H x 560D in mm

Benefits of LiquidFlow 30

CONSISTENT HIGH PRODUCTION QUALITY

- **Permanently accurate mixing ratio:** The proportion in which the two materials are mixed together remains constant, even when you change the flow rate. The gear pumps can be adjusted to compensate for fluctuations in the material density. This guarantees, that the dispensed material always hardens correctly.
- **Constant and pulsation-free flow rate:** The electrically driven gear pumps guarantees a constant and bubble free flow rate of your material at all times, regardless of changes in viscosity or air pressure in the line – even if you are working with the mixer valve more than five metres away from your dispensing system.

Due to precise and homogenous metering and mixing of the material, the LiquidFlow 30M will minimize waste and scrap components.

HIGH FLEXIBILITY FOR CHANGING PRODUCTION NEEDS

- **High flow rates of up to 2.3 l/min:** This enables short processing times for large components (also important for quick gelling materials).
- **High mixing ratio of up to 100:1:** Thanks to the precise gear pump technology, you can achieve a variable mixing ratio of 1:1 up to 100:1 (depending upon pump selection).

The machine can be easily re-configured to accept different options that are required for processing alternative materials with different processing characteristics in the future.

COMPACT AND EASY TO USE

- **Small footprint:** The LiquidFlow 30 is a tabletop system which is significantly smaller than comparable systems.
- **Large 7-inch HMI touchscreen (standard on LiquidFlow 30M):** The simple operation makes everyday work easier. You can also save up to 50 pre-programmable recipes for ratio, flow rate and shot size – an advantage that no other system in this class offers.
- **Different options for operating the mixer valve:** Hand-held trigger operated, machine mounted foot-pedal operated or remote (robot) mounted mixer valve.

After brief training, even new Operators will deliver consistently high production quality.

COST-EFFICIENT

- **Durable and robust technology:** Benefit from short service intervals, less downtime and lower operating costs.
- **Plug-and-play integration:** Standard power supply without special infrastructure.
- **Guarantee:** Up to 3-year warranty and preventative maintenance offers.

Rapid return on investment: Amortisation in less than 12 months due to 30 % reduction in material costs.

TYPICAL APPLICATIONS

- Electronic potting
- Resin Injection
- Sealing
- Component bonding

MATERIALS THAT CAN BE PROCESSED

- Polyurethane
- Epoxy
- Silicone

STANDARD FEATURES

- Metering Pumps: Electric inverter driven gear pumps
- “Metered” or “Operator Controlled” shot size selection
- Service indicator LED
- Controls:
  - Integrated PLC control with HMI colour touchscreen and variable ratio adjustment
  - Anti-gel automatic purge timer
  - Either foot pedal, hand held trigger or remote start options available
  - “Recipe Function” to allow up to 50 pre-set shot sizes, flow rates, and ratios on LiquidFlow 30M

OPTIONS

- Digitally controlled heating to reservoirs, pumps, hoses and mixer valve
- Electric agitation to material reservoirs
- Electronic low-level sensing to material reservoirs with visual and audible alarms
- Stainless steel wetted parts to protect against corrosion
- Hardened parts to protect against abrasion
- Ultra-high precision gear metering pumps for low viscosity or small shot applications
- Nitrogen purge facility to material reservoirs for moisture sensitive materials
- Vacuum degassing to material reservoirs
- Bulk feed transfer pump/accumulator facility directly from suppliers containers
- Air nucleation system for foam applications
- Rotary/Static disposable mixing option (electrically driven)
- Automatic material recirculation system to help keep fillers in suspension
- "Recipe Function" to allow up to 50 pre-set shot sizes, flow rates, and ratios on LiquidFlow 30A

VERSIONS



Benchtop with smaller tanks
LiquidFlow 30A



Benchtop with modular options
LiquidFlow 30M

CONTACT US:

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