

Metering Technology



eldomix



Hilger u. Kern / Dopag Group

eldomix

The eldomix 10x is a solvent free gear metering and mixing system, used to handle low to medium viscosity multi component media such as epoxy resins, polyurethanes or silicones with mixing ratios between 100:100 and 100:5.

Special configurations to process high viscosity media are also available.

Variable, compact...



Equipment

Standard

- Bench top version
- Pressure vessel
- Gear pumps
- Three phase asynchronous motor
- Static mixing systems
 - 2K valve
 - Disposable static mixer
- Metering computer with Realtime Multitasking Operating System (64 programs be stored as standard, including 32 programs via external selection)
- Touch screen terminal

Optional

- Welded frame on wheels
- Extension arm with balancer
- Static-dynamic mixing system with
 - mixer element monitoring
- Pressure vessel with
 - level control
 - agitator
 - connection for vacuum pump
- Material supply through drum pumps
- Heating
- Mixing ratio control (eldomix 102)
- Mixing ratio regulation (eldomix 103)
- Start/Stop signal with foot switch
- Manual handle and trigger start/stop on the dispensing system
- Manual degassing via diaphragm vacuum pump
- Regeneration position
- Automatically refilling
- and many more



Features and benefits

- Variable mixing ratio
- Variable output rate
- Compact bench top machine
- Simple operation
- Solvent free
- Over/under pressure protection
- Shot dispensing or continuous flow

Typical applications

- Coating
- Sealing
- Gluing
- Rapid Prototyping
- Encapsulating

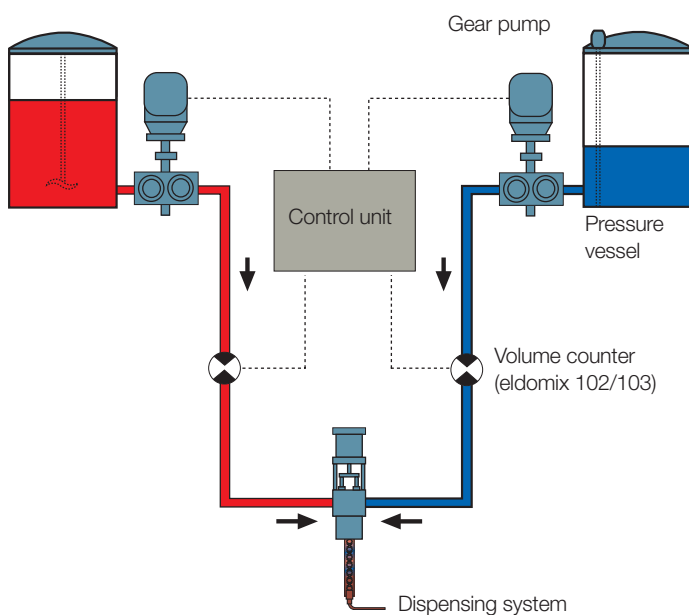
Technical Data

Flow rate	5 ml to 1,2 l/min depending on mixing ratio, viscosity and fillers
Mixing ratio	100:100 to 100:5, by volume
Maximum working pressure	150 bar max.
Mixing system	Static or static dynamic – 2K valve – Disposable static mixer
Material supply	Bench top version: Pressure vessels 4, 12 or 24 l With welded frame: Pressure vessels up to 45 l, larger on demand
Viscosity range	50 to 80,000 mPa s, with pressure vessel up to 150,000 mPa s, with drum pumps
Material characteristics	Unfilled, filled, abrasive
Power supply	3 x 400 V / 50 Hz / 16 A
Maximum air inlet pressure	6 bar max.
Dimensions, L x W x H	Bench top version: approx. 1,000 x 800 x 750 mm With welded frame: approx. 1,000 x 800 x 1,750 mm
Weight	Bench top version: approx. 200 kg With welded frame: approx. 400 kg

Function

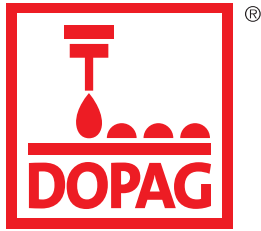
Pressure vessels are used to supply the material into the three phase asynchronous motor driven gear pumps where they are proportioned at the pre-selected ratio. Each gear pump is protected against over pressure as standard. With an eldomix 102 the mixing ratio is permanently controlled with free parameterized tolerances by integrated volume counters. The eldomix 103 is additionally equipped with a permanent mixing ratio regulation.

The eldomix is fitted with a metering computer with touch screen terminal and a static mixing system that includes a 2K valve combined with a disposable static mixer. Should mixed material be allowed to cure in the mixer, it can be replaced simply and inexpensively, thus avoiding a time consuming, expensive and environmentally damaging flushing cycle.



...and clean.

Hilger u. Kern / Dopag Group



The Hilger u. Kern / Dopag Group, with more than 250 employees, is one of the leading manufacturers of metering and mixing systems in the world for plural component polymers and single component media such as greases, oils and pastes.

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