

## 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



## 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

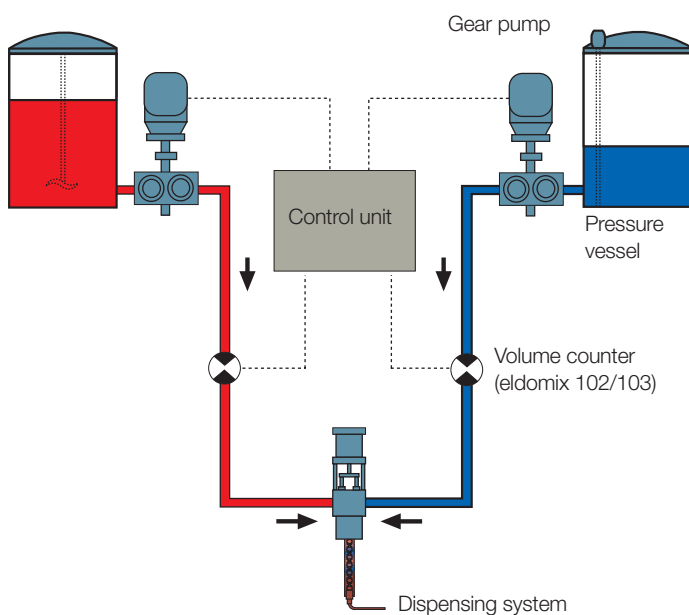
## Technical Data

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

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The Hilger u. Kern / Dopag Group, with more than 300 employees, 8 subsidiaries and 24 distributors, 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. For more than 30 years the group has developed systems and components to suit your individual needs.