eldomix 100 / 600
FOR THE PROCESSING OF LOW TO HIGH VISCOSITY MATERIALS
High process security

Application areas

- Coating
- Sealing
- Gluing
- Encapsulating
- Rapid-Prototyping

Industries

These modern metering systems can be used in any industry where materials need to be applied in a high precision and repeatable way.

- Automotive
- Electrical and electronic
- Renewable energy
- Aerospace
- White goods
- and many more

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. 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.

Features and benefits

- Variable mixing ratio
- Variable output rate
- Compact bench top machine (eldomix 100)
- Simple operation
- Shot dispensing or continuous flow
- Over/under pressure protection
- Solvent free
The eldomix 100 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.

<table>
<thead>
<tr>
<th>Specification</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>Flow rate</td>
<td>2 ml to 1.2 l/min, depending on mixing ratio and viscosity</td>
</tr>
<tr>
<td>Mixing ratio</td>
<td>100 : 100 to 100 : 5, by volume</td>
</tr>
<tr>
<td>Maximum working pressure</td>
<td>100 bar max.</td>
</tr>
<tr>
<td>Mixing system</td>
<td>Static or static-dynamic mixing system</td>
</tr>
<tr>
<td></td>
<td>▪ 2K valve</td>
</tr>
<tr>
<td></td>
<td>▪ Disposal static mixer</td>
</tr>
<tr>
<td>Material supply</td>
<td>Bench top version: Pressure vessels 4, 12 or 24 l</td>
</tr>
<tr>
<td></td>
<td>Welded frame: Pressure vessels up to 45 l, larger on demand and/or drum pumps</td>
</tr>
<tr>
<td>Viscosity range</td>
<td>50 to 80,000 mPa s, with pressure vessel</td>
</tr>
<tr>
<td></td>
<td>over 150,000 mPa s, with drum pumps</td>
</tr>
<tr>
<td>Material characteristics</td>
<td>Unfilled, filled, abrasive</td>
</tr>
<tr>
<td>Power supply</td>
<td>400/230   VAC 3/N/PE   /   50/60 Hz</td>
</tr>
<tr>
<td>Maximum air inlet pressure</td>
<td>6 bar max.</td>
</tr>
<tr>
<td>Dimensions</td>
<td>Bench top version: from 810 x 790 x 1,000 mm</td>
</tr>
<tr>
<td></td>
<td>Welded frame: from 1,000 x 1,740 x 1,610 mm</td>
</tr>
<tr>
<td>Weight</td>
<td>Bench top version: from 200 kg</td>
</tr>
<tr>
<td></td>
<td>Welded frame: from 400 kg</td>
</tr>
</tbody>
</table>
The eldomix 600 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. Special configurations to process high viscosity media are also available.

<table>
<thead>
<tr>
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<tr>
<td><strong>Flow rate</strong></td>
<td>2 ml to 5 l/min, depending on mixing ratio and viscosity</td>
</tr>
<tr>
<td><strong>Mixing ratio</strong></td>
<td>100 : 100 to 100 : 5, by volume</td>
</tr>
<tr>
<td><strong>Maximum working pressure</strong></td>
<td>100 bar max.</td>
</tr>
<tr>
<td><strong>Mixing system</strong></td>
<td>Static or static dynamic mixing system</td>
</tr>
<tr>
<td></td>
<td>▪ 2K valve</td>
</tr>
<tr>
<td></td>
<td>▪ Disposal static mixer</td>
</tr>
<tr>
<td></td>
<td>Dynamic mixing system</td>
</tr>
<tr>
<td><strong>Material supply</strong></td>
<td>Pressure vessels 12 to 90 l, larger on demand</td>
</tr>
<tr>
<td></td>
<td>and/or drum pumps</td>
</tr>
<tr>
<td><strong>Viscosity range</strong></td>
<td>50 to 80,000 mPa s, with pressure vessel</td>
</tr>
<tr>
<td></td>
<td>up to 150,000 mPa s, with drum pumps</td>
</tr>
<tr>
<td><strong>Material characteristics</strong></td>
<td>Unfilled, filled, abrasive</td>
</tr>
<tr>
<td><strong>Power supply</strong></td>
<td>400/230 VAC 3/N/PE / 50/60 Hz</td>
</tr>
<tr>
<td><strong>Maximum air inlet pressure</strong></td>
<td>6 bar max.</td>
</tr>
<tr>
<td><strong>Dimensions</strong></td>
<td>from 1,200 x 1,150 x 1,400 mm</td>
</tr>
<tr>
<td><strong>Weight</strong></td>
<td>from 600 kg</td>
</tr>
</tbody>
</table>
## Equipment

### Standard

**Bench top version Chassis with castors**

12 l stainless steel pressure vessel  
Gear pump with over pressure-protection  
Three phase asynchronous motor  
Static mixing system  
- 2K valve  
- disposable static mixer  
Metering computer with realtime Multitasking Operating System (64 programs be stored as standard, including 32 programs via external selection)  
7" colour touch screen terminal  

### Optional

- Welded frame on wheels  
- Modular machine setup  
- Extension arm with balancer  
- Pressure vessel with  
  - level control  
  - agitator  
  - automatic refill  
  - connection for vacuum pump  
- Material supply through drum pumps  
- Additional wear protection for the gear pumps  
- Controlling or regulation of mixing ratio and output rate through volume counters  
- Static-dynamic mixing system  
  - with mixer element monitoring  
- Start/stop trigger via handle grip or foot switch  
- Manual or automatic circulation  
- Regeneration position  
- Heating  

### Standard

**Chassis with castors**

12 l stainless steel pressure vessel  
Gear pump with over pressure-protection  
Three phase asynchronous motor  
Static mixing system  
- 2K valve  
- disposable static mixer  
Metering computer with realtime Multitasking Operating System (64 programs be stored as standard, including 32 programs via external selection)  
9" colour touch screen terminal  

### Optional

- Larger mobile chassis, also with integrated retention pond  
- Modular machine setup  
- Extension arm with balancer  
- Pressure vessel with  
  - level control  
  - agitator  
  - automatic refill  
  - connection for vacuum pump  
  - automatic vacuum evacuation  
- Material supply through drum pumps  
- Additional wear protection for the gear pumps  
- Pump drive through servo motors  
- Controlling or regulation of mixing ratio and output rate through volume counters  
- Static-dynamic mixing system  
  - with mixer element monitoring  
- Dynamic mixing system  
- Start/stop trigger via handle grip or foot switch  
- Manual or automatic circulation  
- Regeneration position  
- Heating or tempering
DOPAG is one of the leading manufacturers of metering and mixing technology. In numerous industries, DOPAG systems and components are used for processing and application of multi-component polymers or 1-component media such as adhesives, greases and oils. The company employs more than 300 people and is represented in more than 30 countries by its subsidiaries and distributors.

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