

# compomix FI

## Composite fibre impregnation in filament winding, RTM and pultrusion processes



The compomix FI has been specially designed for the impregnation of fibre rovings in filament winding, resin transfer moulding (RTM) and pultrusion processes. It ensures the precise metering and mixing of two-component material used for glass, aramid or carbon fibre impregnation (FI). Depending on the application specifics, the compomix FI can be used to either fill a resin bath and keep it at fill

level, or to inject material directly into a mould. The material is supplied from two material tanks installed on the system. The tanks are filled directly from the original delivery containers and this is done automatically either via standard refill systems or gravimetry.

### Technical specification

<b>Material discharge</b>	Ca. 100- 800 cm <sup>3</sup> , depending on mixing ratio and viscosity
<b>Mixing ratio</b>	100 : 15-50, by volume
<b>Injection pressure</b>	Max. 60 bar
<b>Mixing system</b>	Static <ul style="list-style-type: none"><li>▪ Plastic mixer tube</li></ul>
<b>Material supply</b>	Gravimetric / alternatively with refilling pumps
<b>Viscosity range</b>	10 - 500 mPas at working temperature
<b>Operating voltage</b>	400 / VAC 3 / N / PE / 50 / 60 Hz
<b>Compressed air supply</b>	6 bar max.

### Features and benefits

- Simple and comfortable operation
- Resin bath filling or pressure-regulated injection via attachment, change of sensor possible
- Wide range of applications thanks to variable mixing ratio and discharge rate
- Easy integration into existing production processes
- Low pulsation gear pump technology

# Equipment

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### Standard

Mobile welded frame

2 x 45 l stainless steel material pressure tanks

Material pressure tank equipped with:

- Agitator (A component)
- Level control
- Preparation for automatic refilling

Silicagel dehumidifier

Gear metering pumps with overpressure protection

Three-phase asynchronous motors

Control or regulation of mixing ratio and discharge rate with flowmeters

Manual cycle on A component

Static mixing system

- 2K valve with separate material supply
- static mixer tube, plastic

Heating on A component

Stainless steel wetted parts on B component

Metering computer with realtime multitasking operating system (64 metering programmes storage capacity)

7" colour touch screen terminal

Remote control with cable

### Optional

Direct supply without material tanks

Material supply via immersion pumps or drum pumps

Material pressure tanks equipped with:

- Agitator (B component)

Additional wear protection on gear pumps

Dynastat

Mixer element fault monitoring

Mixer flushing with cleaning agent

Heating on B component

Profibus/Profinet

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