



Metering Technology



**DOPAG Metering and Mixing System
for pasty media
TOOLING-MIX**



Hilger u. Kern / Dopag Group

TOOLING-MIX for pasty media

The TOOLING-MIX has been specifically designed for handling pasty two component media, including polyurethanes and epoxy resins, as well as for successfully processing microball filled materials.

The TOOLING-MIX is characterised by

- lower material degradation than similar systems due to the optimised construction of the gear pumps
- careful construction for gentle material feeding
- minimum maintenance required, due to just a single pump for each component

Typical Applications

- Sealing
- Gluing
- Rapid Prototyping



Features and benefits

- Gentle material feeding
- Lower material degradation due to the optimised construction of the gear pumps
- Continuous flow dispensing
- Simple operation
- Over pressure protection
- Solvent free
- Economic solution
- Compact construction
- Electronically controlled flow rate
- Low working pressure

Equipment

Standard

- Pneumatic, oversized rams
- Follower plate mounted special gear pumps
- Dispensing system with static mixer
- Metering computer
- Electronic adjustment of
 - mixing ratio
 - output rate
- Jib for supporting the mixing system and hose

Optional

- Dispensing system with static steel mixer
- Extended jib
- Automatic mixing ratio monitoring with volume counter
- Static dynamic mixer
- Remotely controlled

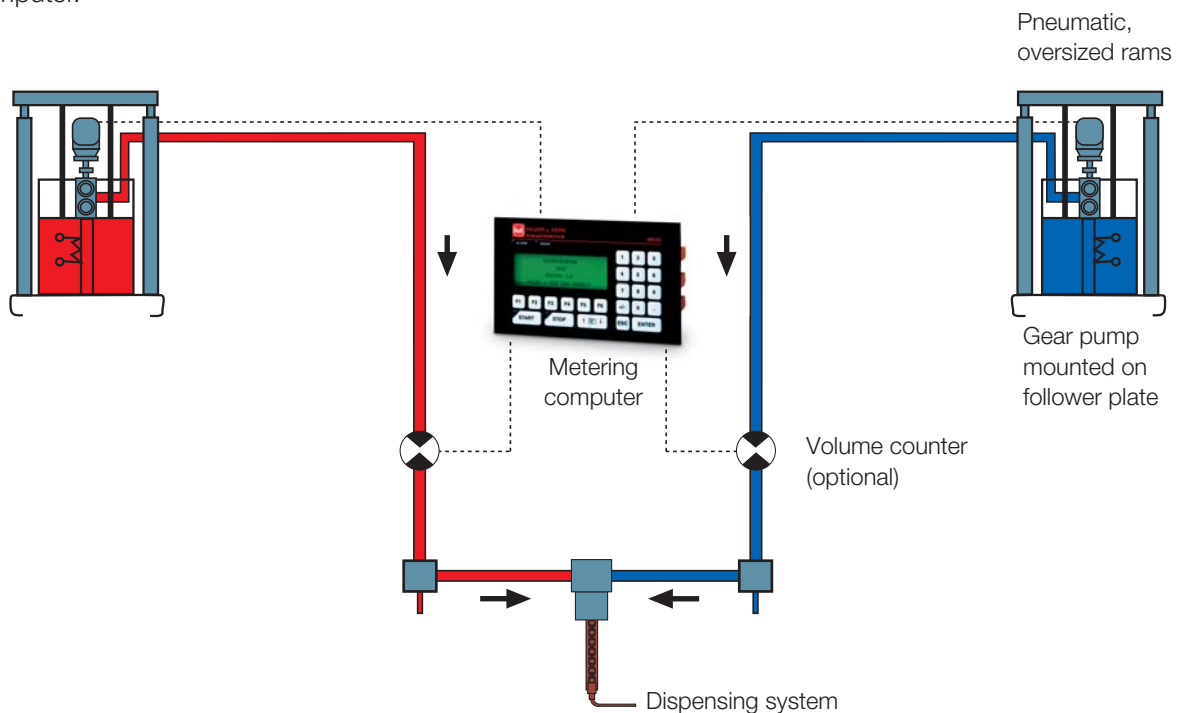
Function

The components are fed and metered directly from the drums. The gear pumps are mounted directly onto the follower plates. Each gear pump is individually controlled and protected against over pressure.

The TOOLING-MIX is controlled by a metering computer.

Both components are then kept separate until they enter the static mixer where they are mixed homogenously.

After use, the static mixer is normally purged with a single component.



Technical Data

Flow rate	0.7 to 5 l/min, depending on mixing ratio and viscosity
Mixing ratio	100:100 to 100:10, by volume
Maximum working pressure	50 bar, higher on demand
Mixing system	Static mixing system – Mixing block – Disposable static mixer
Material supply	80 or 200 l container size
Viscosity range	50,000 to 1,000,000 mPa s
Material characteristics	Filled, slightly abrasive
Power supply	3 x 400 V / 50 Hz / 16 A
Maximum air inlet pressure	6 bar max.
Dimensions, L x W x H	approx. 1000 x 1510 x 2700 mm (80 l) approx. 1650 x 1750 x 2700 mm (200 l)
Weight	720 – 1050 kg, depending on configuration

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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.