

**Further features**

The dosing pumps can be supplied with additional equipment according to requirements :

- Speed control by inverter/servo controller
- Pressure monitoring or control
- Temperature monitoring or control
- Flow monitoring or control
- Stand-alone dosing station or dosing module prepared for integration in machine environment
- Communication to other machines or control systems



Dosing station with flow control

**Mahr Metering Systems GmbH**

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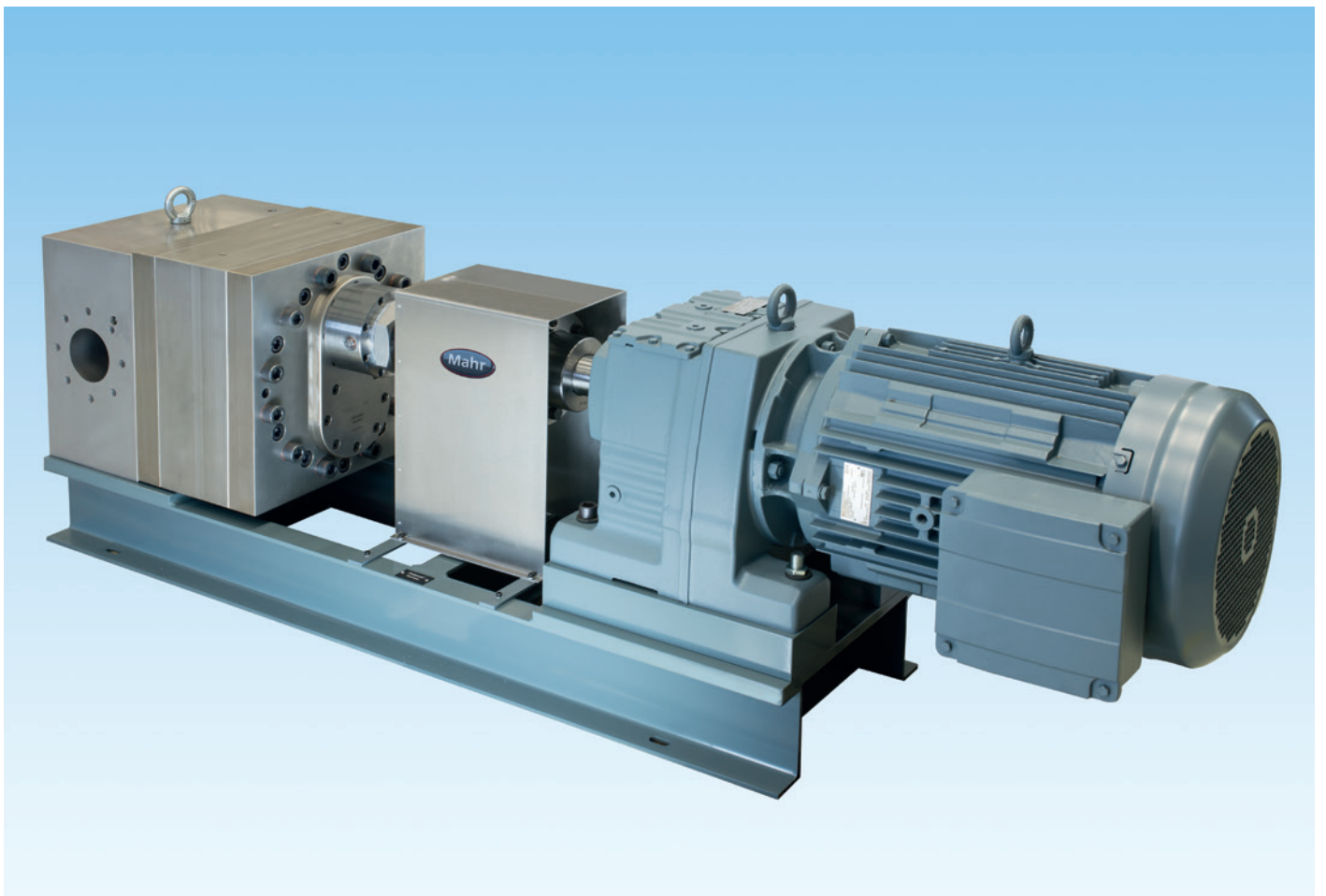
© by Mahr Metering Systems GmbH, Göttingen  
Änderungen an unseren Erzeugnissen, besonders aufgrund technischer  
Verbesserungen und Weiterentwicklungen, müssen wir uns vorbehalten.  
Alle Abbildungen und Zahlenangaben usw. sind daher ohne Gewähr

# Mahr

## Mahr Metering Systems

### MarChem

Gear pumps for precise metering of low  
and medium viscous liquids



► | Certified Quality  
DIN EN ISO 9001

Mahr

Precision has our word.

**MarChem – Gear pumps**

For decades Mahr Metering Systems (Feinpruef brand) produces gear metering pumps. Originally designed for spinning textile fibers more and more new pump types come along.

Lots of applications in various industries require precise pulsation-less metering of liquids.

Especially for these purposes Mahr Metering Systems has developed gear metering pumps, which are achieving very good efficiencies even for low viscous liquids or at high counter pressures.

MahrChem gear pumps are equipped with a pump block installed in the tubing in order to realize a quick pump change without dismantling the tubing.

The product portfolio comprises gear pumps, drive units and complete dosing stations.

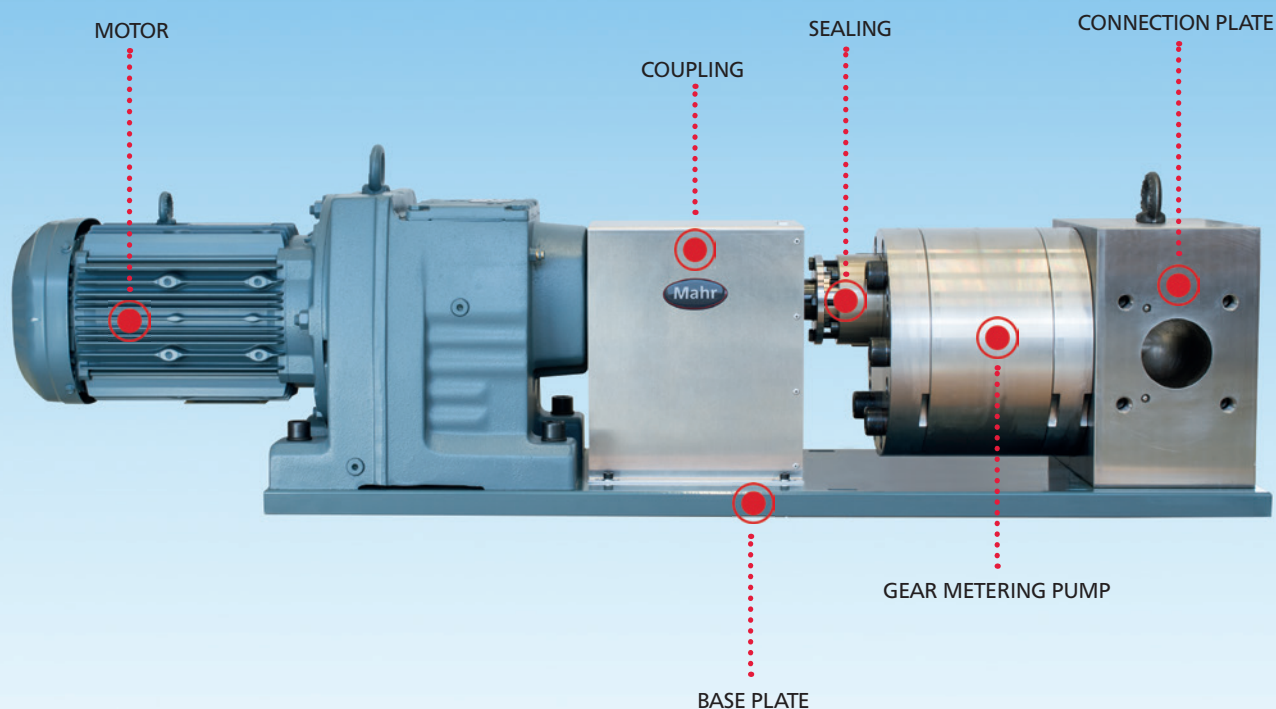
**Technical data**

<b>Flow</b>	0,01 – 3000 ccm/U
<b>Speed range</b>	40 – 200 U/min
<b>Viscosity</b>	0,5 – 100000 mPas
<b>Operating temperature</b>	room temperature up to 400 °C
<b>Pump Material</b>	in correlation to the metered liquids a variety of specialised steels and special materials are available
<b>DLC coating</b>	Diamond-like-Carbon coating improves the wear resistancy
<b>Medium to be pumped</b>	all kind of liquids including corrosive and abrasive media



Gear metering pump type 1,2 cc/rev.

Features



Drive unit with gear metering pump type 300 cc/rev.

**Gear Pump with drive unit consist of:**

**Base plate**

- with connection block

**Couplings**

- curved teeth coupling
- cardan shaft
- all steel coupling
- magnetic coupling

**Motors**

- Asynchronous geared motor
- synchronous geared motor
- servo geared motor

The drive units are designed according to the operating conditions.

**Sealings**

- gland packing
- radial shaft seal ring (optionally with barrier liquid)
- labyrinth seal
- mechanical seal in all variants
- hermetically sealed because of magnetic coupling

**Tempering of gear pumps**

Electrical heating, liquid heating and cooling are available.

**Explosion-proof**

Pump and drive unit design according to ATEX II2Gc can be offered.