



# SYSTEM SOLUTIONS FOR FUTURE-ORIENTED DISPENSING APPLICATIONS

Maximum process reliability in automated applications with low to high viscosity, structure-sensitive and highly filled fluids.





# TECHNOLOGY – OUR AIM IS TO ACHIEVE THE HIGHEST PRECISION

## RELIABILITY

Our products stand for process-reliability. In addition we are also a reliable partner and employer.

## TECHNOLOGY

Our technology is the foundation for high-end quality products.

## QUALITY

The quality of our products is reflected in results that impress by their precision.

## OUR TECHNOLOGY

Volumetric dosing and filling systems are based on the **ENDLESS PISTON PRINCIPLE** and are used for low to high viscosity fluids.

The core of every application is a purely volumetrically conveying dosing pump. The interaction of rotor and stator results in a feed and dosing characteristic that is similar to an endlessly moving piston.

This results in a pressure-stable, linear pump characteristic. This makes a clear statement about the ratio of revolution, time and flow rate. Therefore, a constant volume can be dosed either over time or over a number of revolutions. A dosing accuracy at the pump outlet of  $\pm 1\%$  (depending on the material), which in practice is often even better. This is guaranteed.



## HIGH DEGREE OF PROCESS RELIABILITY

of low to high viscosity, abrasive, pressure and structure-sensitive, highly filled fluids sensitive to shear – for dispensing independently of viscosity.



## DISPENSER WITH A LONG SERVICE LIFE

and extremely high efficiency due to low wear and low friction when conveying material.



## DEFINED FLOW RATE VOLUME

for a repeatability of  $> 99\%$  with linear dependency between the application quantity and revolution for a variable robot speed.



## VOLUMETRIC DISPENSING

with continuous non-stop dosing at the desired flow rate with maximum repeatability. Pulsation-free with minimal shearing and low pressure.



## BROAD APPLICATION RANGE

and individually adaptable systems for a wide range of different process applications.



## CONTINUOUS INNOVATION

according to our claim: "Standing still means moving backwards – keeping moving is the only way to advance." Creativity and imagination create innovations.



## ALL FROM ONE SOURCE

From emptying to degassing to dispensing systems. Engineering and material know-how included!



## MADE IN GERMANY

All process steps are created and executed in Tögging. According to the quality feature Made in Germany and the "Think global, act local" approach.



## TESTS & TRAINING

In our Customer and Innovation Center (CIC), we offer training, dosing tests, events and also focus on your dosing application in a targeted approach.



## MORE THAN 20 YEARS OF EXPERIENCE

are the base for extensive expert knowledge. A structured knowledge management helps to create optimal solutions.



# ENGINEERING & PROJECT MANAGEMENT



## 1. PROJECT MANAGEMENT

Solutions with concept advice and process development deliver the optimal result. We listen, address your requirements and wishes and offer you our long-term experience – this saves our customers time and resources.



## 2. COOPERATION WITH MATERIAL MANUFACTURERS

We maintain a close cooperation with material manufacturers and a constant exchange of experience for the optimization and qualification of application processes. Also directly with you in preliminary tests.



## 3. PRELIMINARY TESTS

In our technology rooms, engineers and technicians are available to support our customers to test process requirements. Our range covers manual and mechanical tests, including optimization of our customers' applications.



## 4. ON-SITE COMMISSIONING

Our experienced service engineers are the contact partners for our customers on-site. They provide support from the initial commissioning and process supervision, through to the training of operators.



## 5. SERVICE

We offer our customers security in form of technical support and individual maintenance contracts. Our technicians carry out any necessary repairs – either in our own service centre or at the customer's site.



## 6. AFTER SALES

After the system implementation we offer a wide range of services to support our customers – suitable for the life-cycle of the systems.



# PRODUCT PORTFOLIO

Efficient product handling during the emptying, conveying and dispensing of 1- and 2-component materials – including intuitive control technology. Our products are specially adapted to your material to be processed and integrated into your production process.

## SYSTEMS FOR MATERIAL EMPTYING

Continuous and constant material supply for seamless production without interruptions.

Container volume: 30 ml – 1,000 l  
Emptying capacity: individually customizable  
Viscosities: up to 7,000,000 mPas



ViscoMT-C/-CM



ViscoMT-D



ViscoMT-XS

## SYSTEMS FOR MATERIAL PREPARATION

Homogeneous, air- and bubble-free pastes and fluids for a reliable dosing process – buffering and degassing dosing material.

Container sizes: 2.5 l / 3.5 l / 15 l / 25 l / 80 l  
Withdrawal capacity: individually customizable  
Viscosities: up to 2,000,000 mPas



ViscoTreat-Im



ViscoTreat-R



ViscoTreat-I

## DISPENSERS AND PUMPS FOR DISPENSING, APPLYING, SPRAYING AND FILLING APPLICATIONS

Reliable, accurate, automatic and with a high repeat accuracy: For precise material handling and exact compliance with the mixing ratio.

Volume flow: from 0.02 ml/min – 8,000 ml/min  
Minimal dosing quantity: 0.002 ml  
Mixing ratio: 1:1 to 100:1



RD-EC



ViscoDuo-P 4/4



ViscoDuo-VM



vipro-DUOMIX

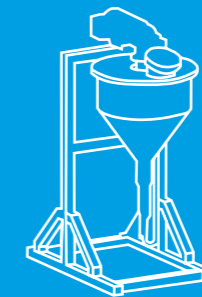


### MODULAR SYSTEM

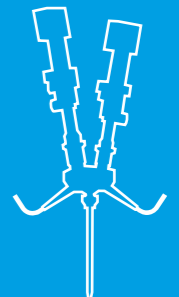
Based on our process know-how, your system is adapted individually to your process – including engineering and project management.



Material emptying



Material treatment



Dispensing



# APPLICATION EXAMPLES



## AUTOMOTIVE

Bead application of 1-component adhesive, i.e. MS polymer  
– antenna bonding



Bead application of 1-component sealant, i.e. silicone – headlight sealing



2-component potting, i.e. epoxy – control module potting



## E-MOBILITY

Gluing and sealing, i.e. 1-component polyurethane – battery housing bonding



2-component potting, i.e. epoxy – sensor potting

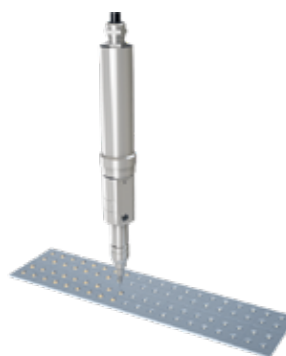


Bead application of thermal paste – heat management battery pack



## GENERAL INDUSTRY

Visually clear potting, i.e. acrylate – LED strip potting



Dam & Fill, e. g. epoxy – circuit board finishing



Application of a protective varnish, i.e. acrylate – circuit board coating



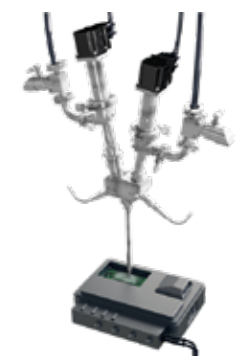
Potting with 2-component trickle resin, i.e. polyester – rotor potting



Dosing of chemically reactive material, i.e. electrolyte – battery pack production



Potting with thermal conductive adhesive, i.e. polyurethane – control element potting





## AEROSPACE

Bonding with 1-component adhesive, i.e. epoxy – [insert potting](#)



Filling with low-density core-filler, i.e. epoxy – [filling honeycomb structures](#)



Dot & bead application of 2-component sealant, i.e. polysulfide – [seal caps, interface](#)



## RENEWABLE ENERGIES

Bead application of 1-component adhesive, i.e. silicone – [junction box bonding](#)



Potting with 2-component sealant, i.e. silicone – [junction box potting](#)



Supplying of metal pastes to a screen printer, i.e. Al-/Ag pastes – [PV-module](#)



## ELECTRONICS

Optical bonding with 1-component adhesive, i.e. UV- acrylate – [display bonding](#)



Glob Top with 1-component potting compound, i.e. UV epoxy – [circuit board potting](#)



Underfill with 1-component adhesive, i.e. Dualbonds – [cavity sealing](#)



## WE CAN DO EVEN MORE

Including feeding, conveying, buffering and degassing dosing material.

More information is available on [PAGE 6](#) or on our website at [WWW.VISCOTEC.DE/EN/PRODUCTS](http://WWW.VISCOTEC.DE/EN/PRODUCTS).

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