

Company Profile

ViscoTec Pumpen- u. Dosiertechnik GmbH

Pump and dosing technology in perfection

ViscoTec produces dosing systems and dosing components for semi or fully automatic production lines and assembly processes. From precise micro dispensing, in the microliter range, to speed-proportional bead dosing, from potting applications, two-component mixing applications or from high precise filling under highest hygienic requirements for the pharma industry to liquid preparation and barrel emptying of semi-solid pastes: ViscoTec products cover a wide range of applications.

The endless piston principle

All dosing and filling units of the company are based on the endless piston principle which belongs to the group of rotary positive displacement pumps. The functionality is comparable to an endless piston that feeds the product from the suction side to the pressure side and builds up a pressure difference in doing so. The core element of each application is a volumetric dispensing pump. The interaction of an eccentrically moving rotor into a corresponding stator results into a similar flow and dosing characteristics of an endless moving piston.

Advantages of the endless piston principle

The rotor / stator geometry ensures that a constant volume is always flowing proportionally to the rotation angle per revolution. So the volume is exactly defined by the angle of rotation of the rotor. The flow direction is reversible by changing the direction of rotation, the pump curve is pressure stable and absolutely linear. This enables you to get a clear overview about the ratio between revolution, time and volume rate. This results in a guaranteed dosing accuracy of 1% at the pump outlet (depending on the fluid) which often is much lower in practice. One further benefit is the emerging dosing chamber. Its volume is absolutely constant during the motion, which gives the possibility to dispense solid-containing fluids and even extremely shear-sensitive chunky products. And in over 95% of all applications there is no need for any filling and dosage valves at all, since a short reverse motion at the end of the dosing process break the thread off and therefore prevents dripping.

Application

ViscoTec products are mostly used with adhesives, paints, soldering pastes, sealants, in medical technology, cosmetics (mascara, vaseline, perfume and others) or in the food sector (e. g. sauce filling with aroma concentrates). The technology focus lies on dosing (1K/2K), applying, filling and material treatment like degassing or barrel emptying of several different products. The company core competence is the processing of highly viscous, solid containing, abrasive or shear-sensitive liquids or pastes. All fluids showing a viscosity of **up to 7.000.000 mPas** can be conveyed and dosed almost pulsation-free and with extremely low shear force. ViscoTec offers technically advanced solutions, available as standard products or as part of a modular design. In addition the company creates solutions for the most challenging, customer-specific applications and is the single point of contact to deliver all components for a complete system: from emptying to preparing and to dosing. This guarantees a successful interaction of all components. To control the special requirements of each application, ViscoTec performs, for example, excellent tests in its own laboratory, in close cooperation with the customers.

A success story

ViscoTec has developed from a department of Resch Maschinenbau GmbH. The department main focus was on producing pump technology for the food, pharmaceutical and chemicals industries. In 1997, ViscoTec Pumpen- u. Dosiertechnik GmbH was founded and started in an office in Mühldorf. Since 2001, the business is managed from Töging a. Inn. In 2007, ViscoTec registered the sale of its 20,000 pump and in 2008 the brand „preeflow®“ was implemented. In the following years, the subsidiaries ViscoTec America Inc. in Georgia (2009), ViscoTec Asia Pte Ltd in Singapur (2011), ViscoTec Shanghai Ltd. in Shanghai (2013) and ViscoTec India Pvt. Ltd. (2017) were established. In 2011, the company relocated into a brand-new building in the Amperstrasse 13 in Toeging (Bavaria), which remains the company headquarter until now. In 2015 the 30,000 pumps already could be sold. After an extensive enlargement of the company site in 2017 the CIC (Customer & Innovation Centre) came into being. In the new technology centre customers can experience live dosing tests and the product portfolio even better. The company employs around 200 people worldwide. The organisational structure consists of the following divisions: Adhesives & Chemicals, Food, Pharma, Components & Devices and 3D printing.

Customers of ViscoTec come from many different industries like automotive, aerospace, electronic engineering, general industry, plastics, new energies, food, biochemistry, pharmaceuticals, cosmetics or the medical sector. They all benefit from a technology which, along with other technical features, offers reliable, accurate and fast dosing that helps them to increase the quality of their own products. For each application, the customer receives comprehensive advice from ViscoTec specialists and experts in order to achieve the best results. Thanks to the 24/7 support available from ViscoTec, optimum service around the clock is ensured. ViscoTec offers its customers a precise, reliable, fast and sophisticated technology. It belongs to the premium market sector. The products are tailored to perfectly match the respective application. The extraordinary quality and work has been rewarded in 2014 with the „Bayerns Best 50“ award and in 2015 with the „Best of Industriepreis“ award.

To be well prepared for the future challenges of the numerous branches, the company steadily improves its products, develops new ideas and puts highest value on quality and service. „together with the creativity of our qualified employees, the many years of experience and the required competences in all application areas are reunited under one roof and form the basis of the customer's trust in our products.“, declares Dipl.-Ing. Georg Senftl, Managing Director of ViscoTec. „Our strategical goal contains a stable and profit-oriented growth, especially in the core regions of Europe, Asia and North America.“

ViscoTec – perfectly dosed!

6.323 Characters including spaces. Reprinting free of charge. Copy requested.

Press Contact:

Elisabeth Naderer, Head of Marketing
Tel.: +49 8631 9274-447
elisabeth.naderer@viscotec.de

ViscoTec Pumpen- u. Dosiertechnik GmbH

Amperstraße 13 | 84513 Töging a. Inn | Germany
www.viscotec.de

ViscoTec America Inc.

1955 Vaughn Road, Suite 209 | Kennesaw, GA 30144 | USA
www.viscotec-america.com



ViscoTec Asia Pte Ltd

18 Boon Lay Way | #09-147, Tradehub 21 | Singapore 609966 | Singapore
www.viscotec-asia.com

ViscoTec Shanghai Ltd. / Greater China

Unit A, 2/Floor, Block 3, Lane 1505 | No. 100 Zu Chong Zhi Road |
Zhangjiang Hi-Tech Park, Pudong District | Shanghai, 201203 | P. R. China
www.viscotec.com.cn

ViscoTec India Pvt. Ltd.

710 Nucleus Mall, 1 Church Road Pune | Pune 411001 | India
www.viscotec-india.com