# Fresh fragrance on feminine hygiene products

Smallest quantities sprayed continuously but flexibly

A new project of ViscoTec Asia at the end of 2019 was the application of a fragrance on top of feminine hygiene products. Before implementation, dosing tests were carried out for the customer. A preeflow eco-SPRAY dispenser was employed for this. The aim of the tests was to check the dosing accuracy and repeatability of the eco-SPRAY for the small quantities. A particular challenge was to achieve precise results for various different products. Various quantities were to be tested for several products in the customer portfolio: 1.5, 1.8 and 2.5 mg per part – to allow flexible automated production. The in-depth dosing tests consistently demonstrated the accuracy and consistency of the small volumes required for the process. With the preeflow spray dispenser, ViscoTec Asia is able to spray with less than 1 % deviation from the nominal value.

An example from the customer's portfolio: The parts to be dispensed run in a roll form under the eco-SPRAY. The speed of the roll is over 1,500 parts per minute. At the final stage, the customer wants to apply a small amount of <1.6 mg of fragrance to each product. The material is gravity fed from a container suspended about 2.5 meters above the floor. The method used up to now could not precisely dose such a small volume in each part and had poor repeatability. In conclusion, the customer decided to purchase the eco-SPRAY from preeflow to integrate the spray dispenser into the existing line.

The key to success: The dosing tests proved that the customer required volume accuracy and consistency for product model could be achieved. In addition, the change from a pressure tank or gear pump tank, which was previously used, to product being fed by a gravity tank was convincing. An analog signal with PLC now also makes it possible to link the speed of the production line with the flow rate of the dispenser. This means that the amount of liquid to be sprayed can be dynamically adjusted according to the speed of the roll.

Further information on the wide range of applications for the preeflow dispensers can be found here: <https://www.preeflow.com/en/products/>

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Pictures:





*The preeflow eco-SPRAY dispenser is used for precise application of fragrances.*

Microdispensing to perfection!

preeflow® is a brand name powered by ViscoTec Pumpen- u. Dosiertechnik GmbH. ViscoTec primarily deals in systems required for conveying, dispensing, applying, filling and emptying medium to high-viscosity fluids. The headquarters of the technological market leader is in Töging (upper Bavaria, near Munich). In addition, ViscoTec has subsidiaries in the USA, in China, Singapore, India and in France and employs about 260 people worldwide. Established in 2008, preeflow® ensures precise, purely volumetric dispensing of liquids in the smallest of quantities. preeflow® products are appreciated worldwide, not to mention because of their unique quality - Made in Germany. An international distribution network offers professional service and support in all areas of preeflow® dispensing systems. The various fields of application include, among others, automotive, electrical and electronics industry, medical technology, aerospace, renewable energies, electrical and hybrid technology and measurement and sensor technology. The complete preeflow® portfolio can be easily integrated due to standardized interfaces. Worldwide more than 20,000 preeflow® systems are working in semi- or fully-automated dispensing applications ­ to the user’s and customer's complete satisfaction.

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