

PRESS RELEASE

Dosing of soldering paste without technical limits

Precise dosing of abrasive material at a hand-work place with a preeflow eco-PEN

With the introduction of a new product at the B.B.W. Bayrischen Bohrerwerke GmbH in Büchlberg 2012 the requests to the dosing of soldering paste were even rising. A compact application with constant, precise and reproducible results with highly filled soldering paste were in demand. At this point preeflow came into play. Handling solder pastes with high viscosity, in this case 105.000 to 115.000 mPas and a solids content of 88 % w/w are posing a challenge to some dosing systems – but not to the eco-PEN.

The micro dispensing system of preeflow is carrying its point at the hand-work place in Büchlberg against a simple time-pressure-system, because of a very quick dosing and at once a perfect accuracy as well as high reproducibility. The viscosity independent dosing of the eco-PEN is arranging for constant results and uncomplicated, manageable handling: the outcome is a perfect preeflow dosing solution. Even an auger valve couldn't convince compared to the eco-PEN. Very high requests to accuracy of the system and the abrasiveness of the solder paste pushed the auger valve to the envelope, leading to unsatisfactory results. Only the eco-PEN is excellent in dosing high viscous and abrasive soldering paste. Working with less shear stress, process reliability and resource-efficiency the eco-PEN defies wear promotive effects of solid loaded pastes.



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Since the introduction of micro dispensing with preeflow in B.B.W. Bayrischen Bohrerwerke GmbH several eco-PEN450 are dosing in three shifts without complications or changing the stator. Because of the batch size at this time the dosing is managed manually, indeed with increasing quantity the production can easily be transferred to a semi- or fully automatic assembly system. Even service intervals of the system are not often. After standing still periods of several days the dosing can easily be carried on, if sufficient protection of material outlet was given. Average grit size of 25 µm is representing 40 % of the copper-manganese-nickel soldering paste and can be dosed almost without abrasion. In summary the B.B.W. Bayrischen Bohrerwerke GmbH is reverting to a reliable, resource-efficient eco-PEN system for more than 3 years, which is day-to-day in constant use.

Benefits and advantages:

- **Very attractive price-performance-ratio**
- **Handy & uncomplicated use**
- **Long-lasting system with minimal wear**
- **Process reliability & resource-efficiency**
- **Straightforward integration in automated processes possible**
- **Easily & intuitive operated**
- **Processing of highly abrasive pastes**

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Micro-Dosing in perfection!

preeflow® is a brand name powered by ViscoTec Pumpen- u. Dosiertechnik GmbH. ViscoTec primarily deals in systems required for conveying, dosing, applying, filling and emptying medium to high-viscosity fluids. The headquarter of the technological market leader is in Töging (upper Bavaria, near Munich). In addition, ViscoTec has subsidiaries in the USA, in China and in Singapore and employs about 120 people worldwide. preeflow® ensures precise, purely volumetric dosing of liquids in smallest quantities and was established in 2008. preeflow® products are appreciated worldwide, last but not least because of their unique quality – Made in Germany. An international distribution network offers professional services and support all around the preeflow® dosing 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 about 10,000 preeflow systems are working in semi- or fully-automated dosing applications - to the user's and customer's complete satisfaction.

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