

NEWSLETTER

VERMES Microdispensing presents its modular, highly flexible MDS 3280 Micro Dispensing System

Optimum adaptation to media and thus highest dispensing quality

VERMES Microdispensing, the world's leading manufacturer of precision dispensing systems, introduces its new MDS 3280 Micro Dispensing Solution of the MDS 3000 Series that convinces with applying ultra-precise application of smallest, identical droplets at highest speed.

The jet dispensing system MDS 3280 is based on the proven piezoelectric actuator with all the advantages of contact-free dispensing. To further enhance the extremely fine dispensing,

especially for high and highest viscosity media, VERMES Microdispensing has expanded its MDS 3000 series with the MDS 3280 all-round system, which takes state-of-the-art microdispensing technology into new dimensions.

"The new MDS 3280 fits seamlessly into our current product portfolio and offers a multitude of applications, addressing all sectors that require high-performance dispensing systems and need to dispense in minimum quantities with

- Highly Flexible Dispensing Solution for Supreme Integration
- Fast and Comfortable Configuration with Top Adjust
- Effortless Handling and Easy Cleaning
- Unique Bayonet Fluid Box Body with integrated Heating
- Ultra-Precise Contact-Free Dispensing
- Peerless Integration into Tightest Spaces



maximum process reliability," says Juergen Staedtler, Managing Director of VERMES Microdispensing. "These include micro dispensing applications in automation and electronics, mechanical engineering, vehicle electrics, medicine, pharmacy, information technology and consumer electronics, as well as the related diverse component topography, particularly when combined with partially sensitive surface texture of the substrate," explains Juergen Staedtler.

The MDS 3280 is characterized by its new valve design ensuring highest performance, cost-effective productivity and excellent dispensing results with uniform and reproducible droplets. It is suitable for the exact application of a wide range of media, such as SMT adhesives, silver conductive adhesives, LED phosphors, underfill materials, as well as silicones, conductive glue or solder pastes and hot melts.

The ability to dispense droplets of less than 150 µm in diameter on the substrate with exceptional consistency and repeatability and shortest cycle times simultaneously improves throughput and reduces production costs.

The VERMES Piezojet valve MDV 3280 is equipped with a setting technology called "Top Adjust" and allows a quick and comfortable configuration and perfect and free pairing of nozzle insert and tappet. Parameter settings can be quickly and easily changed during operation. This

allows the system to rapidly adjust to changing conditions such as variations in material viscosity, modifications of dispensing patterns and the application of different dispensing quantities.

The innovative connector technology which uncouples the fluidic part - named VERMES "Bayonet Fluid Box Body" - from the actual valve body, ensures flexible coupling between these two parts. This allows easy handling and quick cleaning since the screw-less Fluid Box Body can be removed from the valve drive with one-click.

This new, unique design makes the media supply rotatable and the very compact and lightweight valve can be perfectly adapted to a variety of tasks including the desired dispensing direction. It enables fast and seamless integration into the most inaccessible or confined spaces. When implementing complex applications, this saves valuable time and reduces set-up costs within fully automated microdispensing production processes. The tappet can be changed while the valve remains in its operating position, avoiding difficult part replacement and critical service outages

The nozzle heater is integrated in the Fluid Box Body and keeps it constantly at optimum temperature without taking up much space. Due to the continuous temperature control and the control of the material pressure, the dispensing quality remains absolutely constant until the cartridge / container has been emptied.

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