

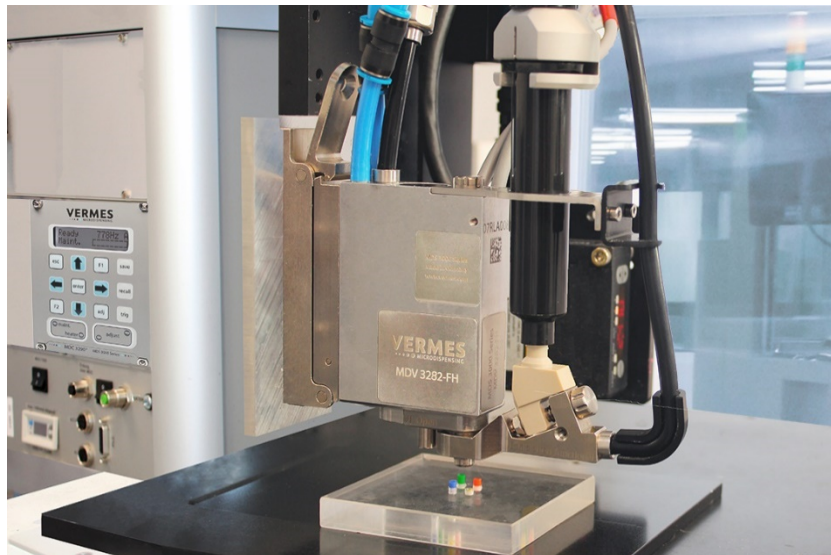
Ground-breaking new high-frequency solution by VERMES Microdispensing boost maximum speed dispensing

- High dispensing frequency with highest throughput
- Maximum deposition rate, precision and reliability

Holzkirchen, Germany, May 18th, 2021 — VERMES Microdispensing has once again set new standards with the introduction of its new high-frequency X2 series based on the two product families MDS 3282 and MDS 3252. They deliver smallest dot sizes at highest frequencies with maximum reliability in a wide range of dispensing applications.

This unique product line of the X2 series offers the best solution to close the current market gap in terms of highest throughput and precision.

Industry sectors, such as consumer electronics, medical or automobile strive to bring new products to market in ever shorter cycles.



VERMES Microdispensing – MDS 3282 system for high frequency dispensing

Product and technical complexity continue to grow while time-to-market is decreasing. The biggest challenge is to produce high quality parts on an industrial scale.

“The ability to operate at the highest speed without compromising precision during the dispensing process would be a great asset to all of these manufacturing industries. We are very pleased with the progress the VERMES Microdispensing teams have made in overcoming this limitation by creating a system that offers the highest throughput at maximum frequency. We are thus bridging the gap in the current market offer,” says Juergen Staedtler, CEO and Managing Director of VERMES Microdispensing.

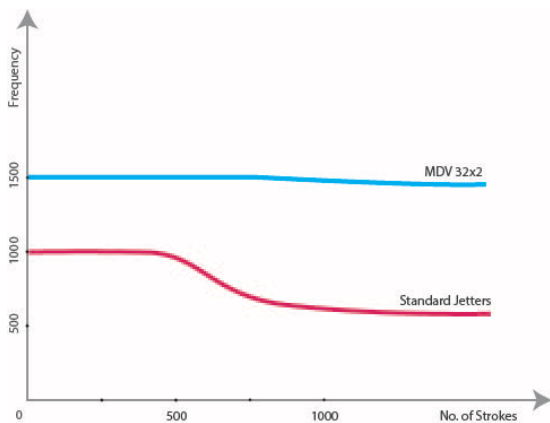
Applications, such as 2D and 3D printing require a high resolution combined with highest throughput. Existing technologies, including the well-known ink jet printers, can only cope with low viscosity media such as ink.

The new valves from VERMES Microdispensing are able to dispense media of highest viscosity for example varnishes and paints that contain solid particles such as pigments.

The areas of application is extremely diverse. 3D printing pastes with fillers made of metal or ceramics, silicone printing in the automotive, healthcare, electronics and lifestyle sectors, overspray-free 2D painting, low-viscosity metallic pastes for solar cells and circuit board printing are just a few more examples where high-speed dispensing with smallest drop sizes and absolute constant results are essential.

The latest VERMES Microdispensing X2 series incorporate a highly effective frame design and optimized cooling system that dissipate unwanted temperatures.

The valves MDV 3282 and MDV 3252 with integrated heater and cooling thus ensure the optimal process



temperature that is required for each individual medium due to its special nature and viscosity.

The enhanced features of the new series achieve constant dispensing performance at the highest frequency and ensure not only perfect calibration and control at a viscosity up to 2,000,000 mPas, but also a throughput that is far loftier than any system that is currently available on the market.

VERMES Microdispensing – MDV 3282 valve constant performance at high frequency

The piezo technology based jetters operate contact-free

and can take any challenge such as layer-by-layer printing processes when dispensing into the smallest cavities where the valve needs to move laterally and vertically in discrete increments.

“Our high-frequency systems MDS 3252 and MDS 3282 allow our customers to increase productivity and performance with the new technology and feature-rich controller software that has been specially developed for the requirements of applications in highly demanding industrial settings,” adds Juergen Staedtler, CEO and Managing Director of VERMES Microdispensing.

About us

Headquartered in Germany, VERMES Microdispensing revolutionized microdispensing technology with the introduction of its contact free piezo-based MDS 3000 series in 2001. Today, the company is a world leader in the design and manufacture of innovative microdispensing concepts and systems for adhesives, silicones, greases, solvents and other fluids.

VERMES high precision MDS 3000 valves support modern manufacturing processes across the globe, e.g. for MEMS components, semiconductor, displays (LCD, OLED, micro-LED), LED, smart mobile devices, automotive, SMT, RFID tags, pharmacology, and many other electronic devices.

Our systems enable our customers to achieve contact free dispensing of highly viscous media droplets in the micro and nano and sub-nano liter range at theoretical frequencies of more than 3000 Hz - a rate that is unique in our industry.

VERMES Microdispensing employees are dedicated to providing the best technologies and services to its customers around the world with the ultimate aim of contributing to increased throughput, improved quality and lower production costs. More information about VERMES Microdispensing can be found at www.vermes.com.

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