

- PERFORMING MOST PRECISE INDUSTRIAL LOW TO MEDIUM VISCOSITY APPLICATIONS
- LATEST FRAME TECHNOLOGY PROVIDES EXCEPTIONAL STABILITY AND RESISTANCE TO EXPANSION AND BREAK ELONGATION
- SUPPORTS HIGH-VOLUME, AUTOMATED, FAST AND HIGHLY ACCURATE PRODUCTION PROCESSE
- FAST AND COMFORTABLE CONFIGURATION WITH SIDE ADJUST
- INCREDIBLE APPLICATION FLEXIBILITY WITH MODULAR DESIGN
- EFFORTLESS HANDLING AND EASY MAINTENANCE
- USER-DEFINED CONFIGURATIONS
- OPTIONAL HEATER COMPONENT



The Micro Dispensing System MDS 3050 stands for most flexible dispensing of low and medium viscosity fluids.

The highest precision system MDS 3050 dispenses minimal amounts in the nano- and sub-nano range, and is suitable for a vast amount of demanding industrial applications.

## Micro Dispensing System MDS 3050 Series



# Micro Dispensing System MDS 3050 Series

## Recommended Media:

A vast selection of components (nozzle inserts, tappets, ect.) allows for a very high media compatibility.

These include for example:

- UV Glues
- Cyanoacrylate
- Anaerobic Glues
- Organic Solvents
- Solder Flux
- Selective Coating
- Oils
- Greases
- Lacquers

The ability to dispense droplets with a diameter of less than a human hair (less than 150 micrometers) on the substrate with exceptional consistency, repeatability and shortest cycle times simultaneously improves throughput and reduces production costs.

## Application Examples:

The system is suitable for a wide range of industrial applications. The MDS 3050 micro dispensing systems are used throughout the world in laboratories, but mainly in automated production plants of industries, such as:

- Automotive
- Semiconductors
- Microelectronics
- Consumer Electronics
- Fine Mechanics
- Pharmacy

The modular design and the contact-less dispensing of the jet valve supports both customized configurations as well as dispensing into cavities, grooves and all kinds of irregular surfaces.

## Major Advantages:

The modular design of the MDS 3050 system and the freely adjustable parameter settings enable a flexible use with fluids of low and medium viscosity.

It also allows the creation of user-defined configurations with a variety of nozzles and fluid boxes for each media and dot size.

The system's controller MDC 3090+ is also compatible with all valves of the MDV 3010 and the MDV 3020 series.

The piezo technology accelerates the dispense cycle with extremely fast opening and closing times of the valve that results in highest throughput and enhanced system performance.

The system performs complex dispensing patterns, dispenses lines with different widths, immediate change of drop size and speed. It dispenses several hundred shots within a second, and this with very high repeatability precision of drop-to-drop dispensing to a viscosity of 8,000 mPas.

The solution is perfect for micro-applications with ever more complex functions, fast and highly accurate production processes in which exact application of high-quality with low to medium viscosity media is essential.

Also, the utilization of high abrasion-resistant materials in the unique tappet suspension of the new MDS 3050 series achieves an enormous reduction in wear and maximum stability.

Optionally, a local nozzle heater can be added at any time and works perfectly with the external VERMES Microdispensing Multi Functional Controller MFC 3000 and the Heater Controller MHC 48 Series.

# VERMES

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