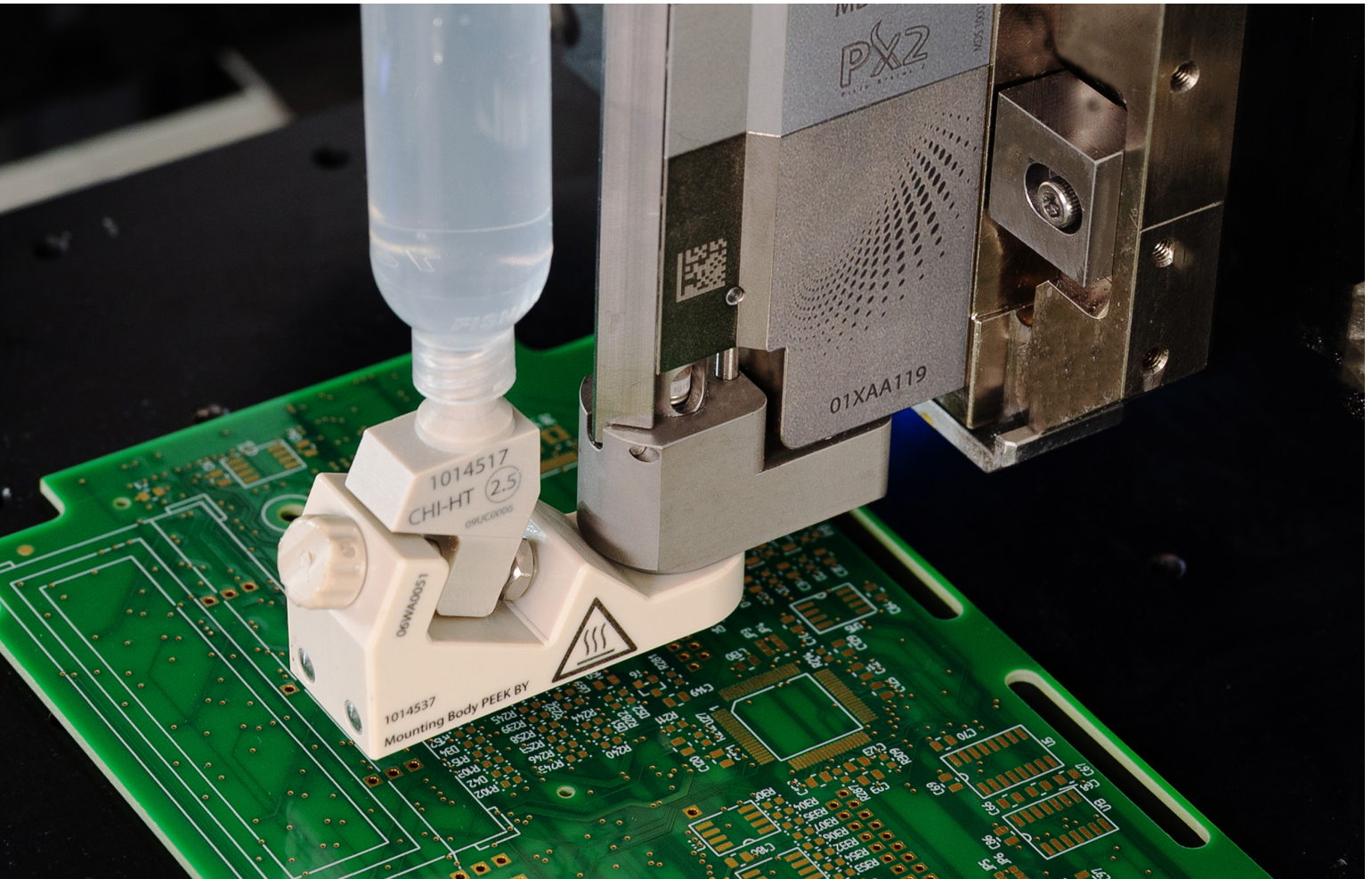# MDS 3055 / MDS 3080 Series

The Art of Microdispensing

Contact

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Key Applications

- **Stacked dispensing in parallel production lines (with MDS 3055)**

- **Underfill and glob top**

- **Solder paste / Conductive paste dispensing for circuit boards**

- **Semiconductor fabrication**

- **Die attach and cap sealing in sensor and chips**

- **Biological reagent dosing in diagnostic applications**

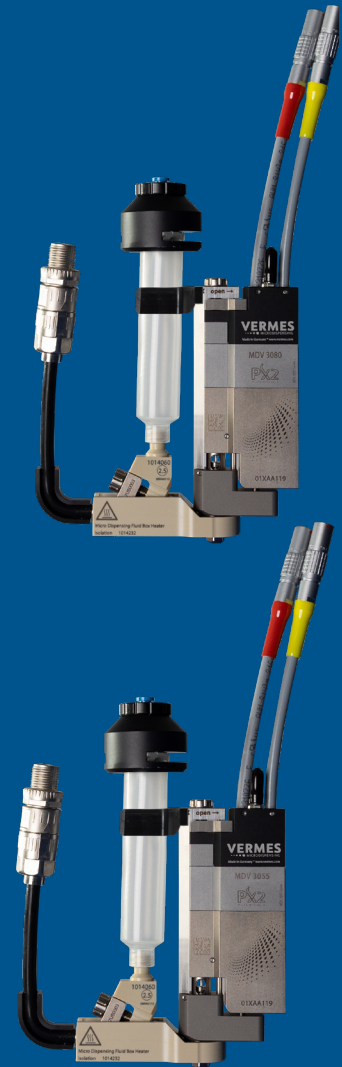- **Gasketing and sealing of small mechanical or electronic parts**

Main Features

MDS 3055 and MDS 3080 Systems

- **Compact Design:** Ideal for parallel dispensing configuration and stack option (MDS 3055)

- **Top-adjust with built in Tappet Position Sensor:** For seamless multi-system integration and precise control

- **Exceptional Thermal Stability:** For consistent dispensing results

- **Bayonet Fluid Box:** For quick, tool-free assembly (MDS 3080)

- **Flexible Air-Cooling Retrofit:** Allows seamless retrofitting to boost operational versatility

One controller for the whole series: MDC 3090+ Controller

Piezo Xtereme 2

Abbreviations

MDV - Microdispensing Valve
MDC - Microdispensing Controller
MDS - Microdispensing System (MDV + MDC)

VERMES MICRODISPENSING

PX2 PIEZO XTREME 2

Supply Module

Valve

Equipped with PX2 powered piezo, a uniquely encapsulated piezo with highest service life cycle

Fluid Box Module
(Bayonet: MDV 3080)

Fluid Box Module
(Non-bayonet: MDV 3055)

Ultra-slim line valves designed for seamless integration into a wide range of systems and machines

Key Industry

Our high precision MDS 3055 / MDS 3080 Systems are used for dispensing of low to medium viscosity medias, ideal for industries where accuracy and control are critical. The systems ensure consistent, contact-free application of adhesives, coatings, and functional medias, enabling efficient, reliable production process even at the demanding micro-assembly environments.

Our microdispensing systems are trusted across a wide range of industries for precise and reliable applications, including:

- **Smart Card Manufacturing**

- **Consumer Electronics**

- **Life Sciences**

- **Automotive**

- **Microelectronics Assembly, and many more.**

Where precision matters, we're there.