

## APPLICATION EXAMPLES



### Minimal Lubrication

- bearings, watches, hard drives, drills (aircraft production)



### Micro Bonding

- loudspeakers, microlenses, optical fibres & connectors



### Medical Engineering

- coating of implants, tissue engineering, high-throughput screening



### Sensors and Diagnostic Chips

- drugs, DNA, proteins, enzymes, cells, coatings, conductive tracks



### Printed Electronics

- nano particles (Ag, Au, ITO, etc.), conductive adhesives, conducting polymers, RFID tags

## APPLICATION EXAMPLES



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Products and Services  
for Microdispensing  
and Material Deposition



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## COMPANY

microdrop Technologies GmbH is the leading provider of equipment, software and services for advanced microdispensing and inkjet printing applications.

Our team of scientists, engineers and technicians has gained experience in inkjet-technology and micro-fluidics for more than 15 years. We focus on high quality products and services for industrial applications as well as for R&D purposes.

Our products vary from single dispenser systems up to sophisticated platforms including positioning units.

We supply our customers with a number of services like training, dispensing tests, prototyping and customized solutions. microdrop Technologies is significantly involved in several national and European R&D projects.

Our main fields of application are:

- Microtechnology
- Material Sciences
- Plastic Electronics
- Life science/Biochemistry
- Industrial Engineering

microdrop Technologies provides products and services in cooperation with several distributors worldwide. Our specialists are in close contact with our customers. This guarantees the optimal solution for your specific application.



## PRODUCTS

microdrop Technologies' product variety covers instruments for precision microdispensing of technical fluids in the picoliter to microliter range.

To meet our customers' demands, we provide different product lines based on dispensing by inkjet technology for material deposition and liquid handling from picoliter to microliter:

### MD-series

The basic Microdrop series (MD) comprise dispenser head or pipette in combination with controller to drive up to 8 dispensers. The possibilities of variation start with table-top units and will be performed in different rack housings and OEM versions each combined with the customized dispenser.

### AD-series

The Autodrop series (AD) extend the basic Microdrop dispensing equipment with xyz-stages to provide the user with ideal solutions for dispensing their liquid and handling of the substrates up to solutions which could be integrated e.g. into a glove box.

### MJ- & NJ-series

The Nanojet (NJ, MJ) series are based on valve technology for precise liquid dispensing in the nanoliter to microliter range.



## SERVICES

Not only the liquid properties need to be considered in microdispensing applications – also the interaction of the liquid with substrates and the demands of the application process are affecting the quality of the results. For optimal solutions a number of lab and engineering services are offered.

### Liquid Test

For evaluation of applicability and capability of the microdrop technology a microdrop Liquid Test is recommended.

### Application Test

The Application Test provides an optimized production process or handling instructions about the investigated application (including assistance in ink formulation, substrate treatment, printing process optimization and automation).

### Customer Training

For an easy start we offer training on the microdrop systems considering customers' individual needs.

### Strategic Partnership

Combining the knowledge about microdispensing and inkjet technology with your expertises will lead to new solutions, products and production processes.

