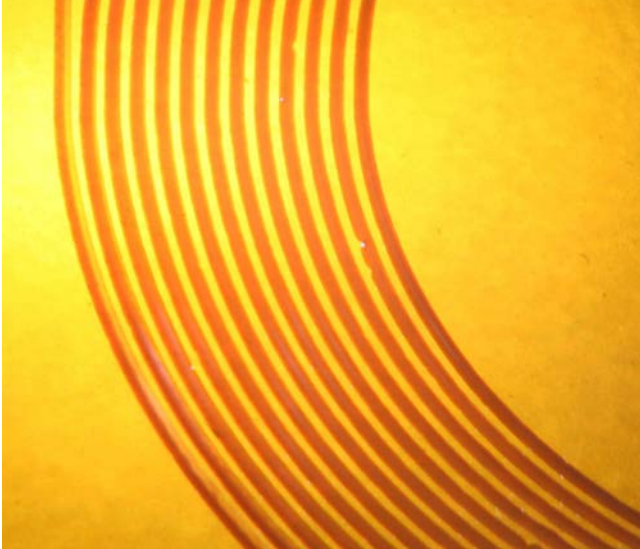


Conductive Inks printed by Inkjet Technology



microdrop Services

- Liquid and Application Tests
- Customized Solutions
- Training

microdrop Products

- Autodrop Platform
- Micro Dispensers
- Evaluation Kits



Advancing the Art of Microdispensing

Conductive inks

Due to the diversity variation of Microdrop dispenser heads most conductive inks can be printed. The realization of a lot different applications like RFID (HF and UHF), solar panels, displays and printed circuits are possible.

The know-how of microdrop enables to optimize the process of conductive ink jet printing across shape of printing structures, coating influences between substrate and conductive material up to the point of environmental influences.

Well known effects like spreading, coffee ring effect etc. and dispensing parameters are discussed in teamwork with the customer to optimizing the process.

The microdrop positioning units are configured with continuous path control and graphic editor which enables in combination with Microdrop dispenser heads printing complex structures in vector graphics (dxf). Apart for vector graphics even import and printing of Bitmap files (pmg) in 8 independent channels are possible.

Examples of common printed conductive inks are:

ANP, Silverjet DGP-30LT-15C
Cabot, AG-IJ-G-100-S1 / CCI-300
Harima, NPS-J

For more information please visit our website www.microdrop.de/functional-polymer-printed-electronics.html

Or get directly in touch with us info@microdrop.de, phone: +49(0)40-5353830.

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Microdrop Microdispenser System

- Touch Panel Control
- Droplet diameter:
standard mode: $\sim 35 \mu\text{m}$ to $120 \mu\text{m}$
waveform mode: $\sim 15 \mu\text{m}$ to $120 \mu\text{m}$
- Viscosity range 0.4 ... 10000 mPas
(depending on the liquid)
- Drop on Demand technology

Autodrop Compact System

- Table top unit
- xyz: $210 \times 210 \times 110 \text{ mm}^3$
- Accuracy (x- and y-axis alone):
Positioning: $\pm 25 \mu\text{m}$
Repetition: $\pm 10 \mu\text{m}$



Autodrop Professional

- Stand alone system
- xyz: $200 \times 200 \times 100 \text{ mm}^3$
- Accuracy (x- and y-axis alone):
Positioning: $\pm 5 \mu\text{m}$
Repetition: $\pm 1 \mu\text{m}$

Autodrop Gantry System

- Stand alone system
- xyz: $360 \times 600 \times 100 \text{ mm}^3$
- Accuracy (x- and y-axis alone):
Positioning: $\pm 10 \mu\text{m}$
Repetition: $\pm 3 \mu\text{m}$

