



n.jet EHD powered by Scrona

TECHNICAL INFORMATION



Fine line printing with EHD MEMS printheads

NOTION & SCRONA PARTNERSHIP

Both companies combine Notion's expertise in developing and manufacturing high-end printing systems for functional materials with Scrona's novel multi-nozzle EHD MEMS printheads. The partnership between Notion and Scrona will promote this new technology in various applications such as display, electronics or semiconductor manufacturing. Notion Systems will manufacture and service the n.jet EHD Lab printer, primarily for high-level research and development facilities.

ADVANTAGES OF HIGH RESOLUTION EHD PRINTING

Electrohydrodynamic (EHD) nanodrip printing is a new high resolution printing technology enabling maskless, direct-write, 3D, non-contact, conformal and additive patterning at the nanoscale with a variety of ink systems and materials.

The printing resolution exceeds conventional ink-jetting by two to three orders of magnitude, paving the way of additive printing into applications dominated by photolithographic microfabrication, and enabling completely new devices consisting of nanoscale building blocks.

The EHD printing is used to replace established subtractive process sequences and reduces waste, energy consumption and makes electronics production more ecological and more economical at the same time.

THE SCRONA EHD ENGINE

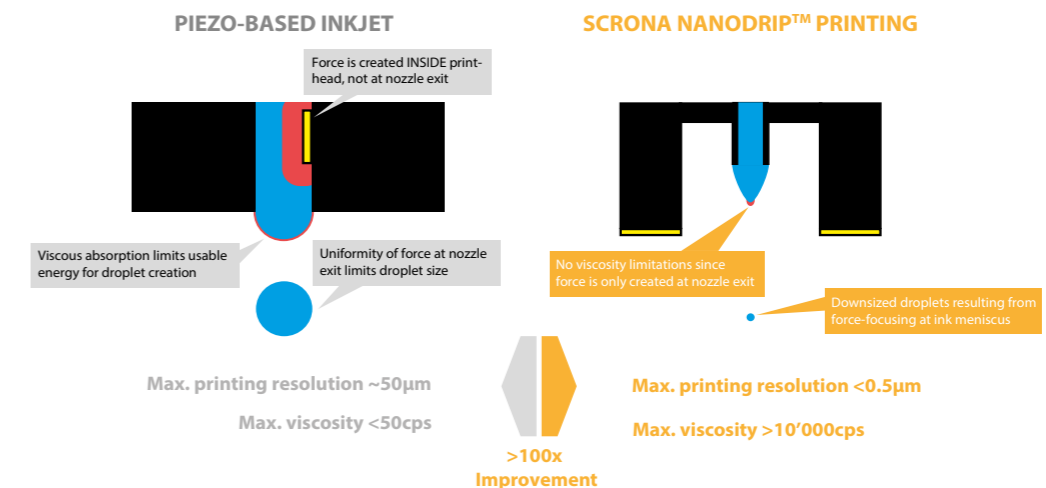
Scrona develops multi-nozzle MEMS printheads with ultra-high printing resolution capabilities better than 1 µm. This R&D tool is addressed to advanced development labs in various fields of micro-fabrication and digital additive manufacturing.

Scrona print engine advantages

- Additive technology that allows submicron resolution from multi nozzle MEMS printheads
- Multimaterial technology, works with ultra-high viscosities
- Customizable R&D MEMS printheads Gen10 with 50 nozzles



COMPARISON BETWEEN INKJET & EHD PRINTING



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S Y S T E M S



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ECO FRIENDLY

THE FUTURE OF ADDITIVE MANUFACTURING

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SEMICONDUCTOR

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n.jet hybrid

3D PRINTING

n.jet optics

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