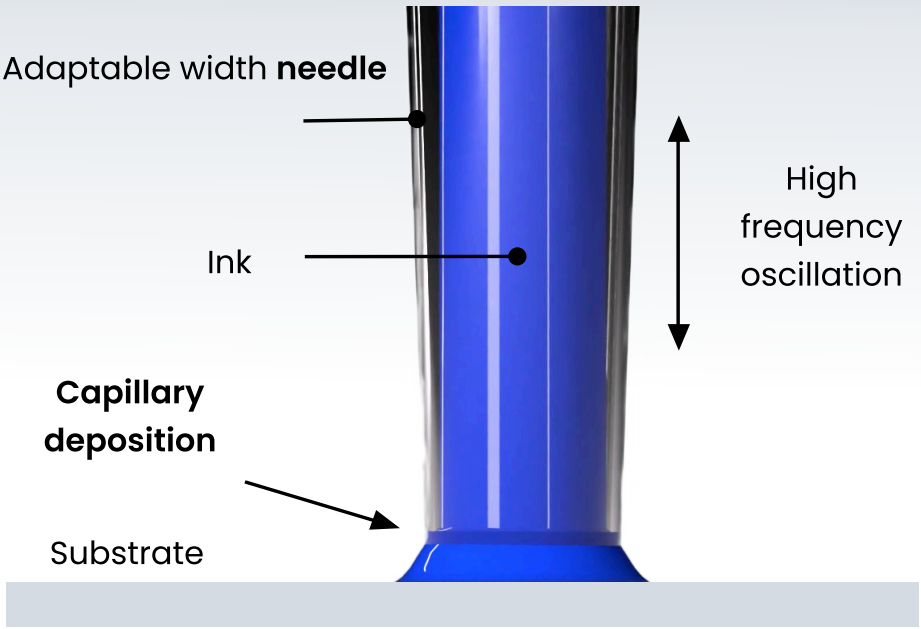
High Precision Capillary Printing (HPCaP)



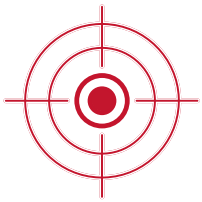
Hummink provides micron and sub-micron manufacturing thanks to HPCaP (High Precision Capillary Printing) technology.

Inspired by Atomic Force Microscopy (AFM), HPCaP uses oscillating micropens filled with ink to form a liquid meniscus on surfaces, detectable by changes in resonator frequency.

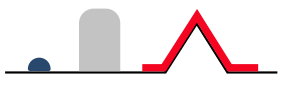
Controlled by advanced electronics, the micropens move precisely in all directions, using capillarity forces for accurate liquid deposition.

This approach allows high-precision micronic printing without the need for external energy.

High Resolution



High Precision & Accuracy

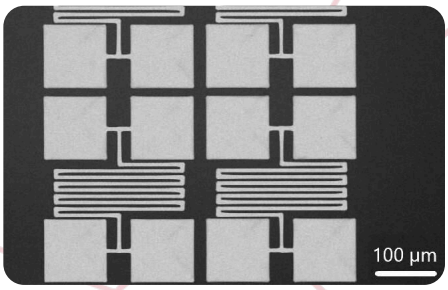


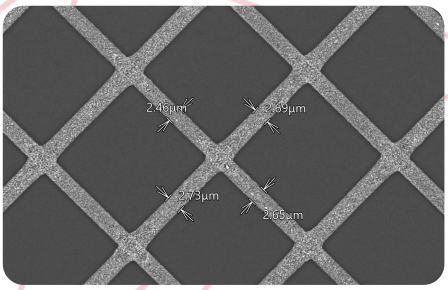
Inks & Substrate Adaptability

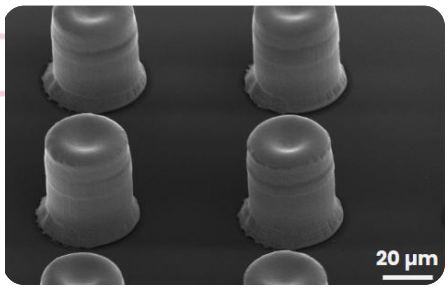
HUMMINK

Applications

Semiconductor packaging, display repair, sensors, waveguides and many more...

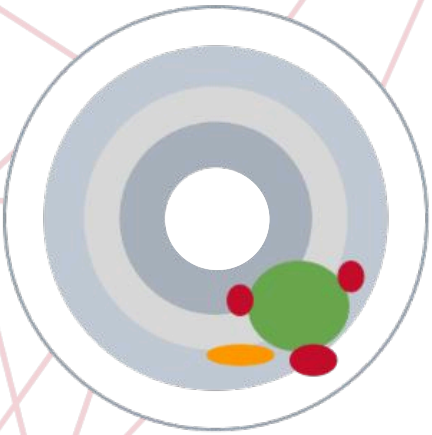






Unmatched Precision & Accuracy

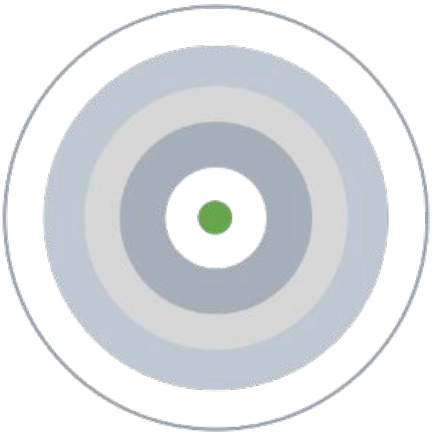
INKJET



Defects

Viscosity up to 50 cp

HPCaP



Defect-free

Viscosity up to 250 000 cp

Desired drop Splash Satellite drop

Join the HPCaP Revolution!

Hummink is a technology provider, enabling customers to have access to both equipments and inks through a single partnership. We commercialize our NAZCA tool, an all-in-one microprinting equipment for prototyping and small production, but we can also partner directly with industrial players to integrate our technology in their production lines.

About Us

Hummink is the leading developer and supplier of HPCaP, a revolutionary microprinting technology for the display, semiconductors and printed electronics industries. Spun-off from world-renowned research institutes, the company is based in France, with representatives all over the world (USA, Taiwan, Korea, Japan, Europe).

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