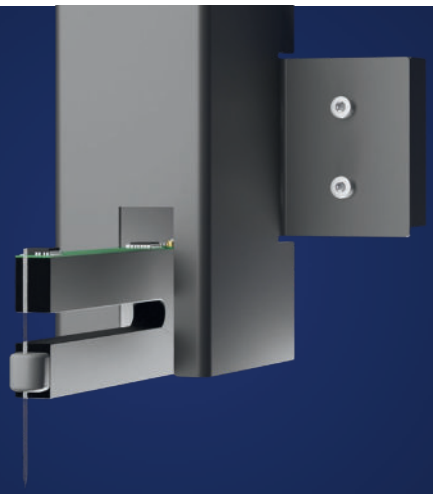
HPCaP: a unique technology breaking down the 5 µm wall

A microscopic pen for large scale ambitions

No compromise on precision, materials, or throughput. Hummink is the only company developing and supplying High Precision Capillary Printing (HPCaP).



Key benefits of HPCaP



UNIQUE RESOLUTION

Line widths
from 80 down to 0.6 µm



UNMATCHED VISCOSITY RANGE

From 1 to 550,000 cP
(SR: 0.1 s^{-1})



INKS & SUBSTRATE ADAPTABILITY

Print across a wide range of inks and substrates



PROCESS EFFICIENCY

Seamless integration.
Faster production. Less waste.



PRINT CYCLE TIME

Deposition
speed up to 2 mm/s



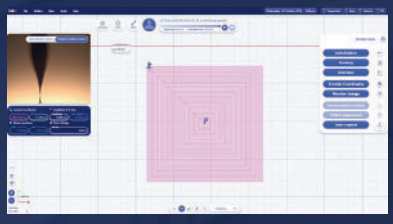
SMART POSITIONING

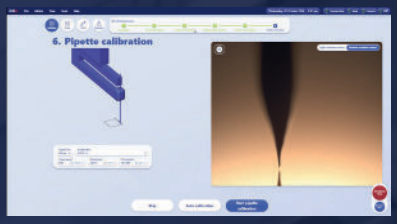
Computer vision supports & enhances your printing process

All-in-one intuitive software

A dedicated, internally developed software suite for research and production.

It covers pattern drawing (SVG & DXF, converted to G-code), pipette size adjustment, ink switching, performance monitoring, and AFM-based sample characterization.

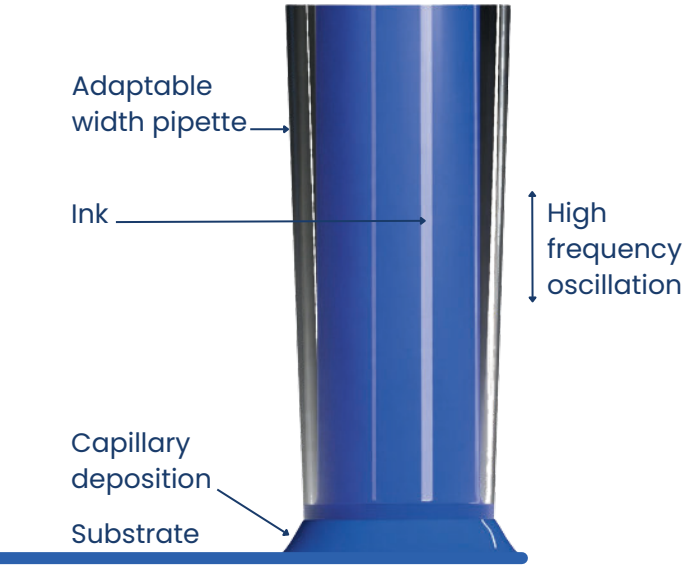


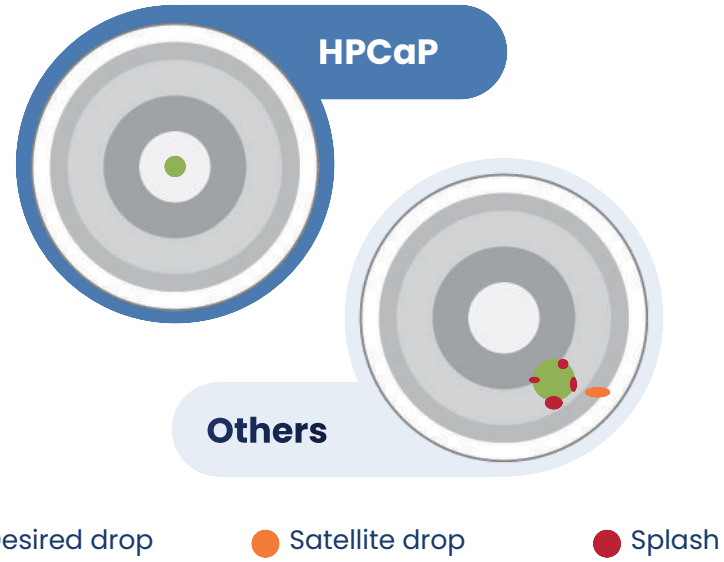


HUMMINK

HPCAP
HIGH PRECISION CAPILLARY PRINTING

Unmatched precision & accuracy

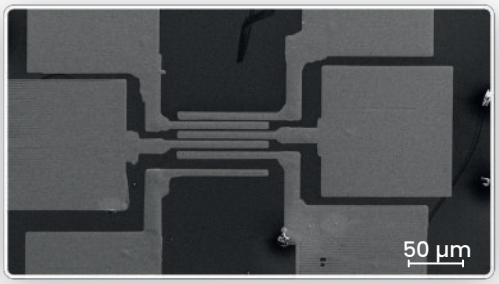


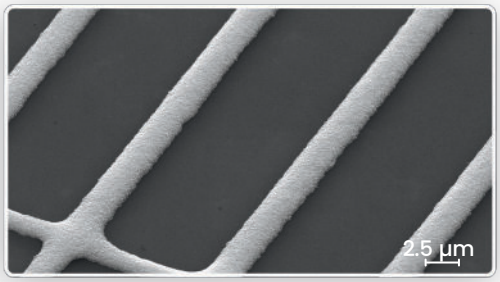


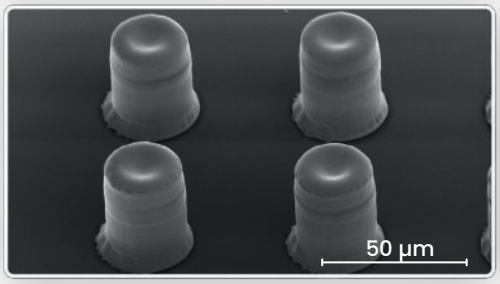
Applications

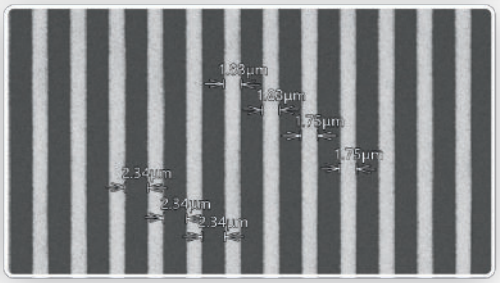
Aerospace, defense & Advanced R&D · Printed Electronics & Biosensors ·
Display & Display repair · Semiconductors & advanced Packaging · MEMS & Watchmaking











About Hummink

Hummink is the exclusive developer and supplier of High Precision Capillary Printing (HPCaP), a patented technology enabling micron-scale material deposition for advanced electronics manufacturing. From R&D to industrial production, our integrated solution combines printing systems, intelligent software, and proprietary inks.

Already adopted by leading industrial and research organizations across Europe, Asia, and the US, HPCaP enables next-generation manufacturing and repair applications in displays, semiconductors, and advanced packaging. Learn more at www.hummink.com or follow us on LinkedIn.

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