HUMMINK

NAZCA

The all-in-one machine for precision printing

The world's most advanced fountain pen



NAZCA is Hummink's tabletop machine, powered by patented HPCaP (High Precision Capillary Printing) technology. It brings unique micron-scale precision directly into your lab, combining a compact, cleanroom-free footprint with the flexibility and control required for on-demand production.

Unmatched Resolution & Precision

Print from 80 down to 0.6 µm, with 500 nm positioning accuracy.

Advanced Design & Rapid Prototyping

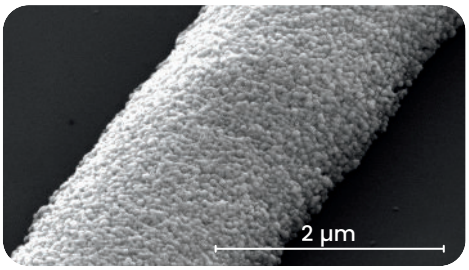
Create or import custom patterns — lines, dots, or any shape — for fast, precise prototyping.

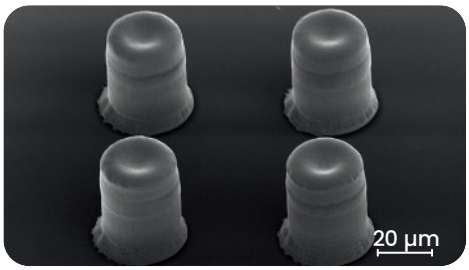
Print with a Broad Process Window

Print on virtually any substrate with any ink — from conductive materials to polymers to quantum dots — no matter the viscosity (up to 550,000 cP).

Real-Time Monitoring & Control

An integrated high-magnification camera and intuitive software keep you in full control, live.



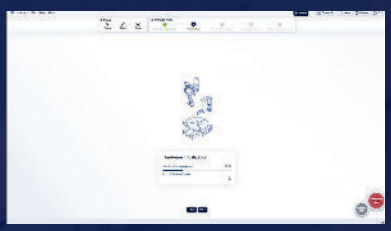




All-in-one intuitive software

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.





www.hummink.com

Technical Specifications



PRINTING	Printing Feature Size	80 - 0.6 µm
	XY Positioning accuracy	500 nm
	Printing Speed	Up to 2 mm/s
	Maximum XY Travel Range	160 x 160 mm (6 inch wafer)
	Maximum Z Printing Range	250 µm, single-pass continuous print
	Maximum Substrate Thickness	20 mm
	Live Video Camera	1024p, 10 fps
	Imaging Resolution	3.2 µm
INKS & CAPILLARIES	Viscosity Range	1 - 550,000 cP (SR: 0.1 s^{-1})
	Capillaries	Borosilicate or Quartz
	Capillary Diameter	300 nm - 50 µm
UTILITIES	Integrated Software	Windows-based, user-friendly
	Anti-Vibration Table	Included passive isolation
	Power	110 V - 240 V
	Dimensions (H x W x D)	700 x 600 x 600 mm
	Weight	100 kg

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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