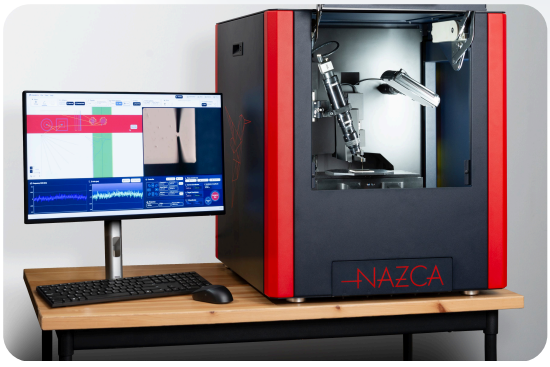
NAZCA

Your all-in-one microprinting tool

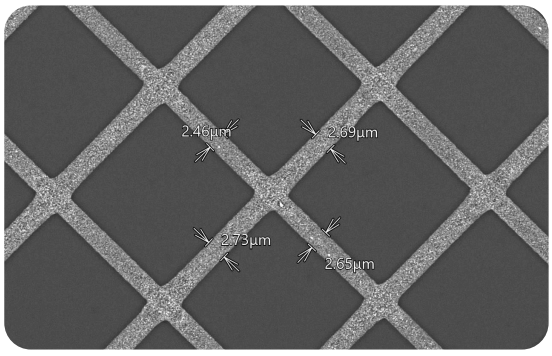
DREAM SMALLER NOW

Main features :

HPCaP (High Precision Capillary Printing) is a patented printing method relying on capillary forces to achieve printing at exceptionally high resolutions.

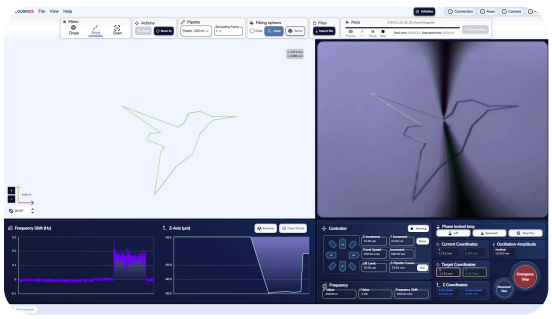


Unprecedented Resolution & Precision:
Printing from 80 µm to 500 nm, with 100 nm positioning resolution.



Large Process Window:
Print on a wide variety of substrates with any ink, from conductive materials to polymers and quantum dots.

Advanced Design and Prototyping Capabilities:
Create or import custom designs like lines, dots or any type of shape easily, offering rapid prototyping with precision.



Real-time Monitoring and Control:
Integrated high magnification camera and intuitive software, to maintain control over the printing process.

HUMMINK

NAZCA

HUMMINK

Technical Specifications

Printing	**Printing Resolution**	500 nm - 80 µm
	XY Positionning resolution	100 nm
	Z-fine Positionning Precision	5 nm
	Table speed	up to 350 mm/s
	Printing speed	up to 10 mm/s
	Maximum XY travel range	160 × 160 mm
	Maximum Z-fine travel range	250 µm
	Maximum Substrate size	25 cm
	Live video camera	1024 p, 10 fps
	Optical zoom	3,5 to 22 X
Inks and capillaries	**Viscosity range**	0 - 100 000 cp
	Surface Tension Range	Depends on contact angle
	Capillaries	Borosilicate or Quartz
	Capillary Diameter	300 nm - 30 µm
Utilities	**Software**	Windows based, UX friendly
	Anti-vibration table	Table included (Air Pump)
	Power	From 110 V to 240 V
	Dimensions (hxwxd)	700×600×600
	Weight	100 kg

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).

HUMMINK