



**DREAM
SMALLER
NOW**

—NAZCA

Your all-in-one microprinting tool

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 50 μm to 600 nm, with 100 nm positioning precision.

Large process window:

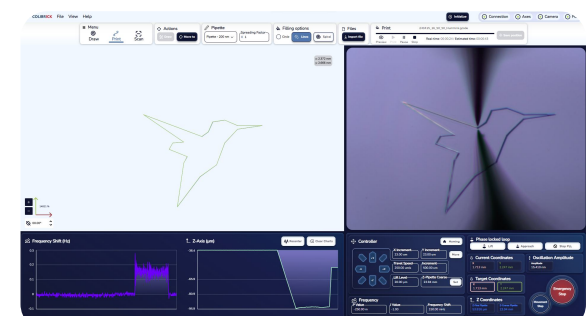
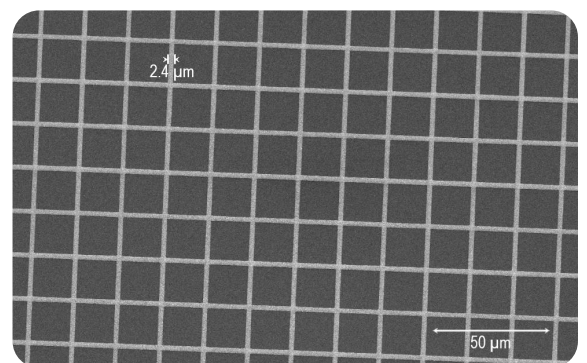
Print on a wide variety of substrates with any ink, from conductive materials to polymers and quantum dots.

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.



Technical Specifications

Printing	Printing Resolution	600 nm - 50 µm
	XY Positioning precision	100 nm
	Z-table Positioning Precision	5 nm
	Minimum increment XY	1 nm
	Table speed	350 mm/s
	Printing speed	up to 10 mm/s
	Maximum XY travel range	160 × 160 mm
	Maximum Z-table travel range	250 µm
	Maximum Substrate size	25 cm
	Live video camera	1024 p, 10 fps
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, UX friendly
	Anti-vibration table	Included (Air Pump)
	Power	100 - 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).

