Product Description



In response to our customers' requests for a low-cost tool to allow exploratory microdispensing investigations, MicroFab is pleased to offer the jetlab® 4. The newest member of our highly successful jetlab® family, currently in use in 23 countries worldwide, leans heavily on the successes of prior generations. By carefully considering the performance and budget requirements of laboratories exploring ink jet as a solution to their deposition challenges, jetlab® 4 provides a cost effective work station for research purposes.

Standard Features

Software controlled X-Y positioning; 160x120 mm2 substrate size & print area; manual Z axis control of printhead height; Print-on-the-Fly (both axes simultaneously) or Point-to-Point printing; raster & vector printing modes; arbitrary printing resolution and direction; complex print job definition through scripting; software based rotation correction; CCD camera for drop observation mounted at 15°, allowing drop impact visualization and coarse substrate alignment; manual pneumatics controls; JetDrive Drive Electronics unit with bipolar and arbitrary waveform modes, and single and burst modes.

Available Options

CCD camera for substrate observation; heated workpiece holder and printheads; motorized Z-stage; drop and fiducial image analysis routines; electronic pressure control; HEPA filter & blower; 21x26 cm substrate size (4xl); improved positioning accuracy (4xl-A); integrated ultra-balance for calibration (4xl-B); computer controlled pressure/vacuum regulator.

Specifications

	Subsystem	Standard	Optional
	X-Y travel 1	60 X 120 mm printabl 2 t0 % 260 m	ım printable area (4xl)
	Velocity / Acceleration	50 mm/s / 1500 mm/s2	
	Accuracy / Repeatabili t ý	βΦμm unidirectional / ±20μm±25μm	n / ±5μm (4xl-A)
Panel	PC; mo Gitxompkstey nboard a	nd mouse; XP Pro; USB 2.0 & E	Ethernet ports; DVDRW

Precistoreup restisus re/vacuum regulator with digital readout for jet operation;

the estate pneumatics

Horizontal codiniena at 15 of diget sentence, aprioritations enverte printheads & Jetting Devices Select one or more

(not included in baschpride from PH-41, PH-41H & PH-47)

bunts all MicroFab standard printheads; Interchangeable ting, repetition with possential bestates, maintenance, & TTL controls; arbitrary printing resolution and direction Print Modes Printion-the-Fly and Point-to-Point

Jet Drive Electronites Drive Twe III: bipolar and arb mode

Additional Information (PDF)

Brochure
Detailed Specifications
Dimensions & Weight
CAD Machine Views