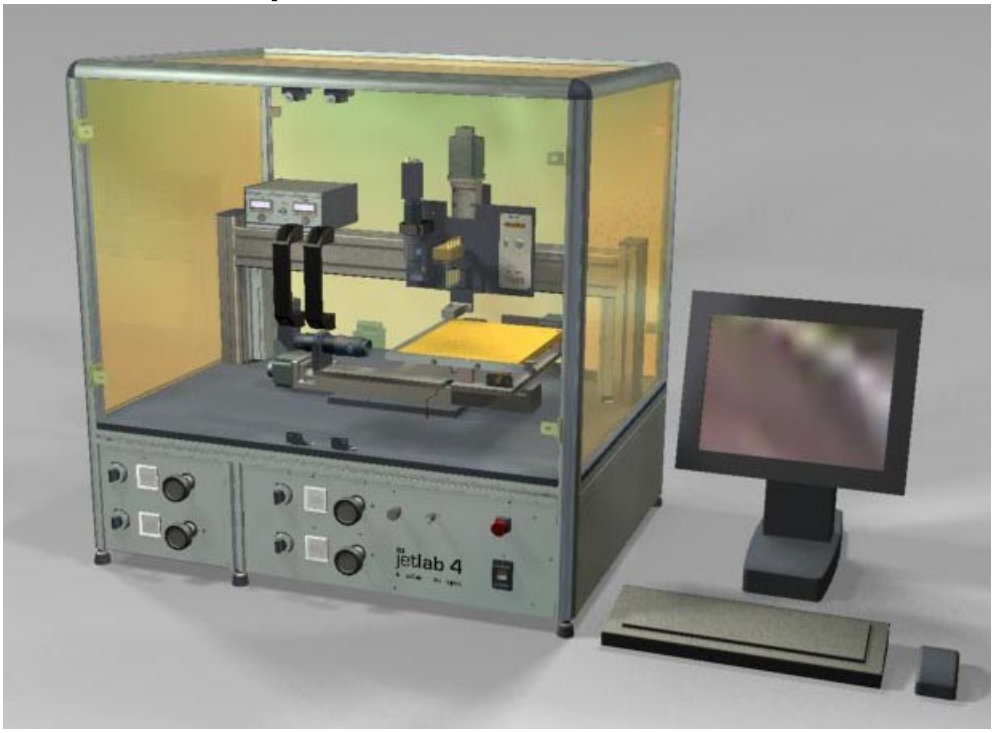
Product Description



For applications that need a larger printable area, better positional accuracy, and/or specialty printhead assemblies, the jetlab® 4 Low Cost Print Station is now available in the 4xl version. In addition to a printable area of 210 x 260 mm, the increased size of the enclosure and the mounting of the horizontal drop observation camera on the X-Y stage allows the 4xl version to accommodate the PH-04a Polymer Jet High Temperature Printhead and the PH-06 Four Fluid Printhead. Improved positional accuracy and repeatability (25µm / 5µm) is also available, in the 4xl-A version.

Standard Features

Software controlled X-Y positioning; 210 x 260 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; horizontal CCD camera for drop observation mounted on X-Y stage; 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 vertical stage; drop and fiducial image analysis routines; electronic pressure control; HEPA filter & blower; improved positional accuracy (jetlab® 4xl-A); computer controlled pressure/vacuum regulator.

Specifications

Subsystem	Standard	Optional
X-Y travel	210 X 260 mm printable area	
Velocity / Acceleration	50 mm/s / 1500 mm/s2	

Accuracy / Repeatability	±30µm unidirectional /	±20µm	±25µm / ±5µm (4xl-A)
Panel PC; monitor keyboard and mouse; XP Pro; USB 2.0 &	Ethernet ports; DVDRW		
Precision pressure/vacuum regulator with digital readout for jet operation;			
Electronic control pressure/vacuum regulator and three state pneumatics			
Horizontal camera jet setup mounted on stage for multichannel printhead fiducial image analysis softw			
Printheads & Jetting Devices	Select one or more		
(not included in base price)	Mount base price; Fab standard printheads; Interchangeable		
ting, repetition with offsets, watchstates,	maintenance, & TTL controls; arbitrary printing resolution and direction		
Print Modes	Print-on-the-Fly and Point-to-Point		
Jet Drive Electronics	JetDrive™ III: bipolar and arb mode		

Additional Information (PDF)

Brochure

Detailed Specifications

Dimensions & Weight

CAD Machine Views