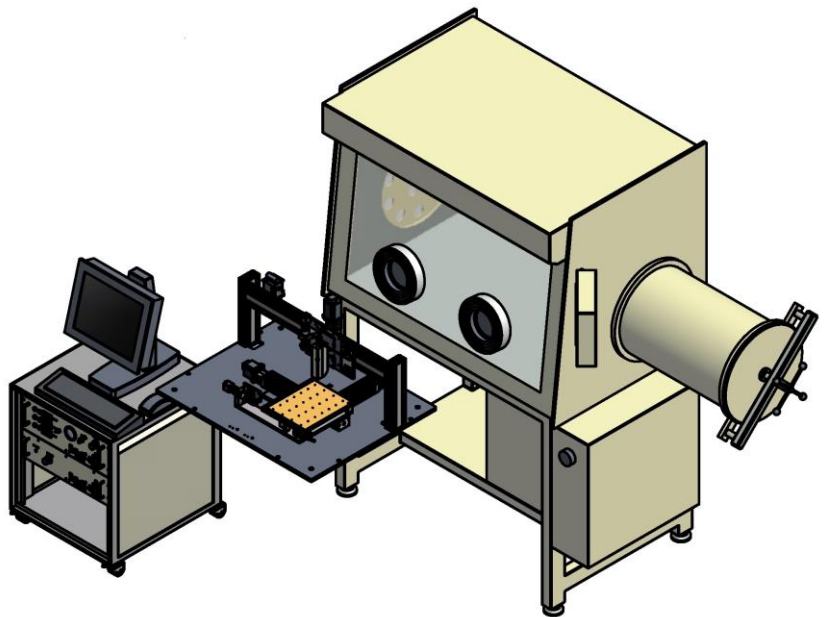


Controlled Atmosphere Configurations

Product Description

Incorporating MicroFab's highly successful jetlab® II and jetlab® 4 microdispensing and printing platforms into an MBRAUN Labmaster® series glovebox, the Controlled Atmosphere configurations of the jetlab® II and jetlab® 4 allow customers to develop precision printing applications using materials and processes that are oxygen or moisture sensitive. Examples include printing electronic and photonic polymers used in displays and RFID tags; printing and post-processing nano-metal aluminum or copper inks as conductive traces or under-bump metallization; printing and fluxless reflow of solder for hermetic package sealing; printing and converting copper-based organo-metallic inks; and printing bacteria-free tissue scaffolds. The jetlab® II and jetlab® 4 can also be incorporated into a standard laminar flow hood for tissue engineering and other applications.

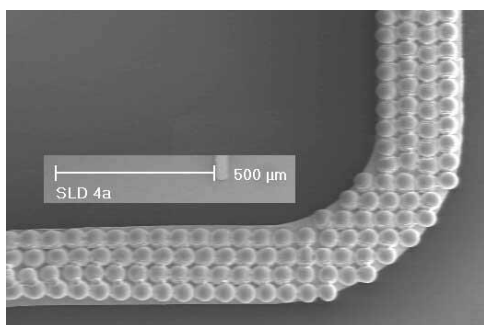


Applications

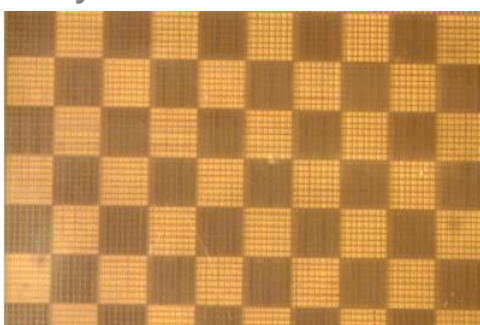
Organic Electronics
Organic Displays
Solder Bumping
Hermetic Sealing
Nano-metal Conductors

Organo-Metallics
Embedded Passives
Inert Post-Processing
Tissue Engineering
Sensors

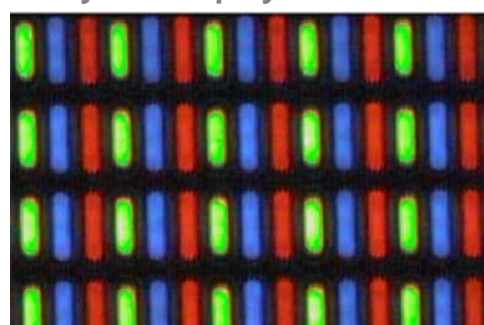
Solder Seal



Polymer TFTs



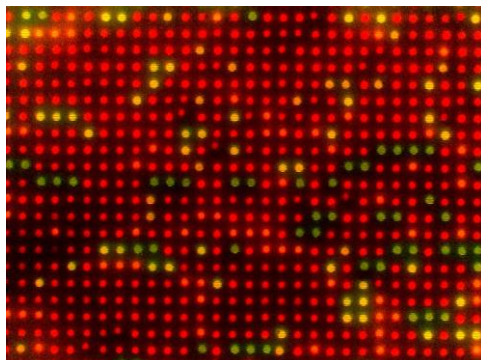
Polymer Display



Nano-Cu UBM



Protein / DNA Array



Nerve regeneration Conduit

