

Our Team



Adam Brunton, Director of Business Development group

Joined M-Solv in 2008. He has been part of the development and management of various laser and inkjet materials processing applications and markets, starting with thin-film PV and then expanding to other areas. He has led a team that pioneered extreme-ultraviolet lithography (EUVL) exposure tools. Currently, he is leading the business development, including sales and marketing. Supporting all aspects of the business. An MA in Physics from Oxford University and a PhD in X-ray optics from Leicester University, where he was a lecturer working on space projects such as NASA's Chandra X-ray Observatory.

Pete Richards, Director of Engineering

Joined M-Solv in 2007. He brings to M-Solv 20 years' experience in the field of mechanical design, manufacturing and assembly of laser micromachining equipment to include stable machine structures, CNC positioning stages, opto-mechanics, precision mechanisms and safety enclosures. Works with international manufacturing partners throughout the design, build and installation processes and leads a team of engineers specialising in mechanical, electrical, control system and software design.

Dimitrios Fantanas, Senior Development Engineer

Joined M-Solv in 2013. He is part of the inkjet printing team, tackling the process development of various materials using additive techniques. Specialising in spray deposition, he has been part of various spray deposition projects handling the process development and aiding in the machine design and commissioning. He is the process engineering team's lead for the M3DLoC and Graphene Flagship H2020 projects. EngD in Micro and Nano Materials and Technologies from the University of Surrey, where he worked on the improvement in current carrying capability of spray deposited silver nanowire transparent conducting films. MSc in Nanotechnology and Nanoelectronic and BEng in Electronic Engineering.

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Additive Manufacturing of 3D
Microfluidic MEMS for Lab-on-a-Chip
applications.

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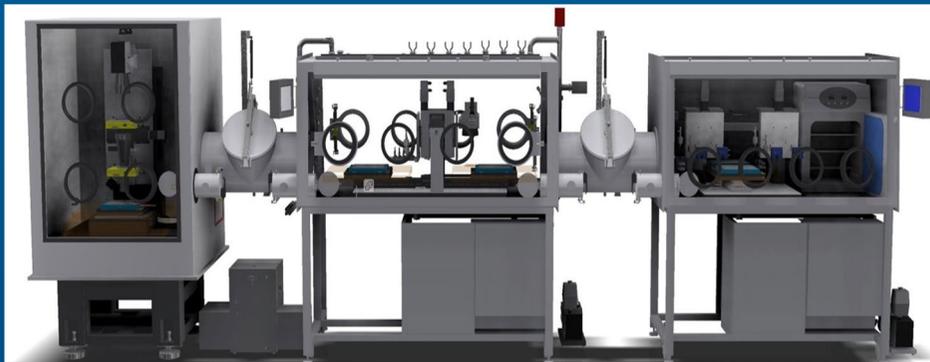
Who we are



M-Solv Ltd is a manufacturing company that employs 70 people and it is based in Oxford, UK with an Asian support facility in Hong Kong. Its activities target the printed, large area and flexible electronics market. M-Solv is part of the Hong Kong-based CN Innovations group which is a broad-based manufacturing organisation, particularly active in the mobile sector.

M-Solv has a development lab with 12 in-house built processing machines including inkjet and spray systems with a range of printheads and capabilities and laser processing stations with different sources and optics: wavelengths from 10 μ to 266nm and pulse lengths from CW to 200 fs with processing areas up to about 1m² plus roll-to-roll. We believe that for a successful development a close working relationship is needed between process provider, material provider, machine developer and end user. So we have developed an extensive network of materials suppliers and other process providers, to align with this philosophy.

We operate a "foundry" for large-area electronic device manufacturing. It is a Class 10,000 (ISO7) cleanroom, with multiple production tools and is ISO 9001:2015 accredited.



Inert tool with different environment with Laser, Spray & Inkjet capabilities



Our product & services

M-Solv develops technology for large area electronics applications. Our core technologies are laser materials processing and materials deposition by ink-jet printing and spray. We have a team of highly-experienced scientists and engineers with three main business activities:

- **Develop manufacturing processes for our clients**
- **Build laser machines and material printers**
- **Do contract manufacturing of large area electronic devices, such as touch sensors**



INKJET



LASER



SPRAY

We use our technologies to enable ~ metre scale devices with ~ micron scale features for a wide range of devices for large area electronics. Industries we work with:

- Passive OLED, PM, EP, EC & EL Displays
- Advanced Packaging
- Large Area Electronics
- Energy storage devices
- Smart windows/glass
- Photovoltaic
- Bio Medical
- Mobile



MSV 700 Inert Laser tool