pragmatIC™ PRINTING

cpi
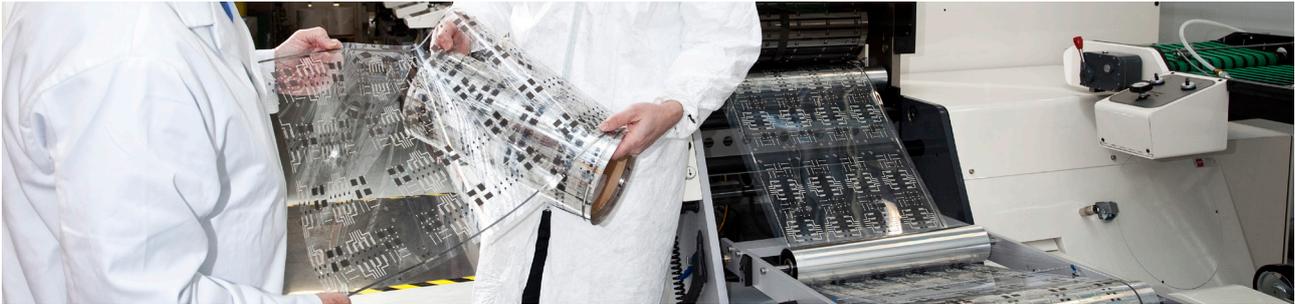
Pilot-scale Development of New Print Technology

- Scale-up to pilot stage production
- Facility and equipment use

PragmatIC Printing Ltd is a pioneering company in imprinted logic circuits. Their technology enables intelligence and interactivity to be introduced into a wide range of products and applications in forms that would not be possible using traditional silicon chips. Much of the printed electronics industry has been focused on large area applications, such as displays and lighting. For transistor-based printed electronic logic, one of the key challenges is to achieve a suitably small feature size. As with silicon chips, smaller features translate directly into higher performance and lower cost.

CPI was able to offer state-of-the-art facilities and technical knowledge to conduct a feasibility study of PragmatIC's existing technology and assess commercialisation. CPI brought a number of key benefits to the project including an extensive range of equipment, enabling the rapid establishment of a baseline process as well as ongoing process development support. The open access facilities de-risked the process by providing PragmatIC with access to unique and comprehensible scalable equipment and

highly skilled technical support. From conducting this study with CPI, PragmatIC are given a good indication of the performance of its materials and processes at manufacturing scale and are able to move on to the next stage of the project.

"We are hugely excited at taking this next tangible step towards commercial deployment of our unique technology for imprinted logic. We welcome interest from all those in the industry who want to make printed electronics products a reality, and encourage collaborative participation in our P4 initiative."

– Scott White
  CEO, PragmatIC Printing Ltd

"We are keen to leverage our extensive facilities and expertise to assist PragmatIC in moving to commercial production. The P4 initiative works in tandem and complements other activities at CPI, in particular the Integrated Smart Systems line which is ideally suited to combine the PragmatIC's imprinted logic with other printing and electronics technologies to deliver innovative finished products."

– Tom Taylor
  Director of Printable Electronics, CPI

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📞 +44 (0)1642 455 340   ✉ info@uk-cpi.com