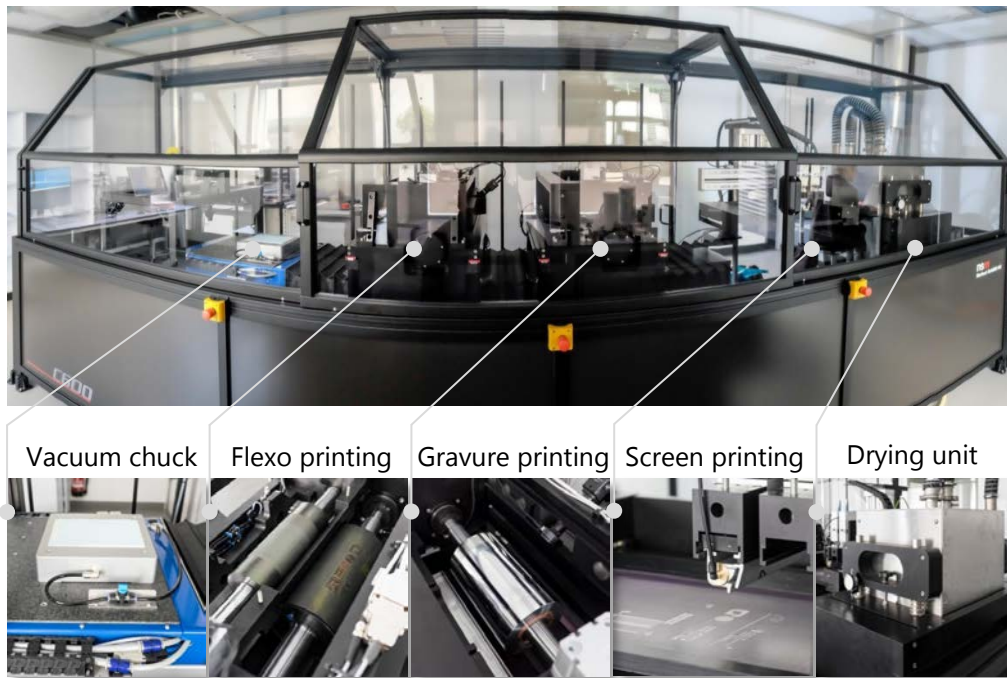


Printing and Wet Coating

The Coating Competence Center (CCC) at Empa operates a unique sheet-to-product printing and coating system of Norbert Schläfli AG. The C600 is a high-precision, multi-functional printing and coating system that is equipped with the following printing and coating units:



Technical data and performance

- Maximum printing size: length 240 mm / width 170 mm
- Printing speed: up to 1.5 m/sec with infinitely variable adjustment
- Register and reproducibility: <math><10 \mu\text{m}</math>
- Very low ink consumption

Other available coating technologies: **slot die coating** (TSE Troller), **gravure printing** (Labratester Norbert Schläfli AG), **spin-coating** and **blade-coating**



A R&D platform for printed electronics

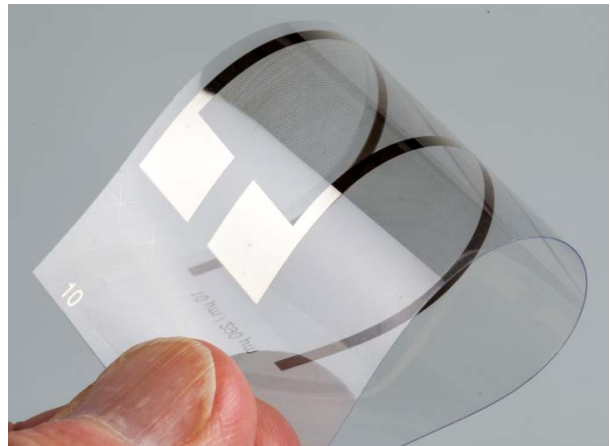
The CCC offers a unique sheet-to-product pilot manufacturing environment for the development of printed electronics and printed functional devices.

The C600 is especially designed to meet and exceed the high technical demands of printed electronics. Its unique register precision allows printing of multilayers with highest accuracy and allows for the design of complex structures.

Printed electronics enables new applications

“High-end electronics” applications require high switching speed and high integration density and will rely, for the time being, on silicon material.

Printed electronics, on the other hand, is motivated by the numerous “low-end electronics” applications that arise from the possibility to manufacture large quantities of functional electronics at sufficiently low cost and sufficiently high speed needed for mass production.



We offer

- A facility that enables you to explore radically new manufacturing approaches for your product
- Feasibility studies for printing processes
- A printing technology platform for prototyping and low-volume manufacturing
- An ISO class 6 cleanroom
- An experienced R&D team in device manufacturing, printing technologies and chemistry
- The R&D infrastructure of a renowned research institute with state-of-the-art analytical tools
- Different models of collaboration

Contact



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