

UNIVERSAL MICROMACHINING PLATFORM FOR THE MANUFACTURE AND MARKING OF MICROPHYSIOLOGICAL SYSTEMS

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Kurzfassung mit maximal 10 Zeilen.

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Abstract maximum 10 lines. Abstract german and/or english.

Micro Physiological Systems (MPS), also known as Multi-Organ-Chip or Organ-on-a-Chip are advanced microfluidic systems. For fast and flexible manufacturing and marking of tailor-made MPS a universal micromachining platform has been established which provides the following latest key technologies: laser micro cutting of polymer foils, laser micro- und sub-micro-structuring of polymer foils, 3D printing of polymer components as well as optical inspection and online process control.