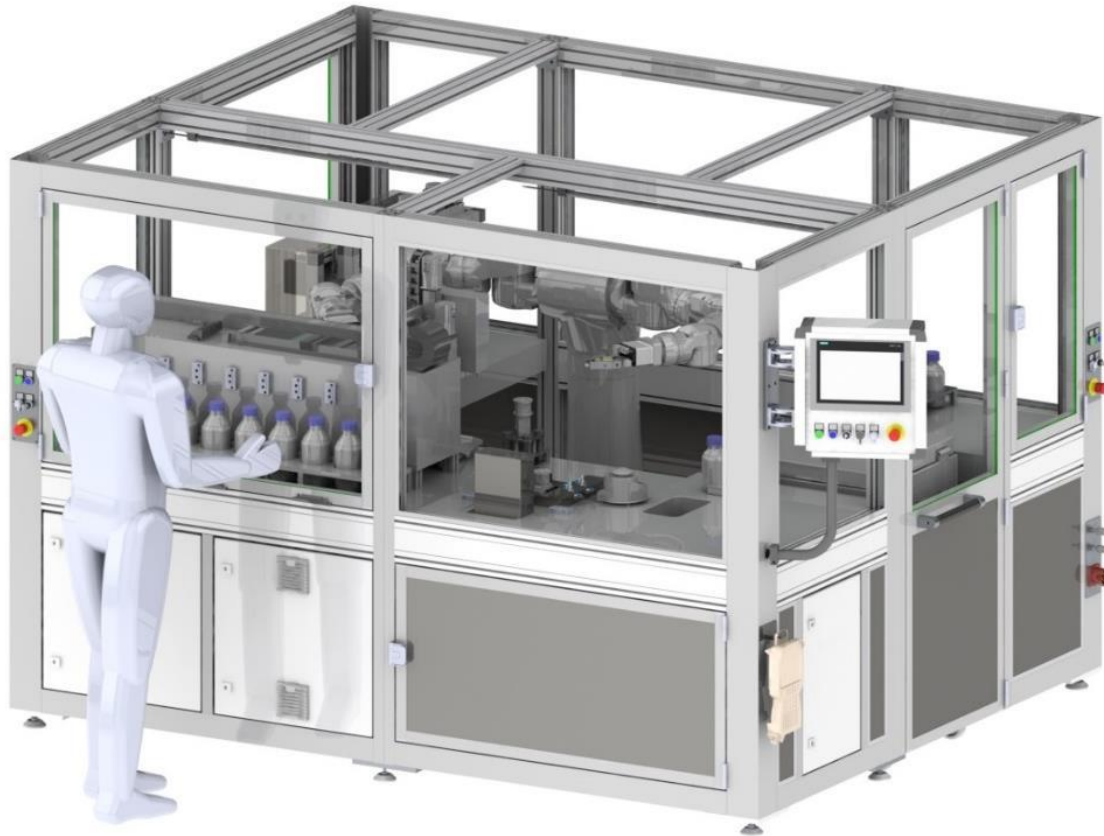


Automated lab for material production and testing



The Fraunhofer Translational Center Regenerative Therapies TLC-RT addresses the task of implementing the automation process for material production and testing. The vision: **a flexible two-arm robot-based platform for the automated production of diagnostic and therapeutic (nano-)particle systems, 3D in vitro tissue models and ATMPs.** Interactive robotics implement synthesis steps in a precise, efficient and quality-controlled manner and – if needed – under GMP-compliant conditions. It allows a reproducible manufacturing of products with defined narrow specifications and short development cycles. The results are tailor-made products used for individualized diagnostics and therapy. Especially the production of unique and small scale series, regardless of employee skills and abilities is of high priority.

Automated lab for material production and testing



SERVICES

- Up-scaling and automatization of synthesis and testing processes
- Two-arm-robot-based modular lab design
- Adaption to specific customer processes
- GMP-compliant manufacturing

APPLICATIONS

- Automated (nano-)particle synthesis under GMP-compliant conditions
- Automated production of 3D in-vitro test systems
- Automated standardized testing of biomaterials and substances

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