



 **HÜBERS**

Micro Casting Systems from HÜBERS. For Precision Casting in Every Direction.

Your Requirements:

You manufacture sensitive electronic products, the casting of which requires highest precision, reliability, absolute freedom from voids, and best impregnation. Moreover, you need great flexibility and easy adjustability of the casting trajectory along X-, Y-, and Z-axis.

Our Micro Casting Systems:

- **Accuracy:** Absolutely error-free casting of the smallest quantities; casting quantity tolerance less than 0.01 g.
- **Flexibility:** Suitable also for highly filled, abrasive casting resins under vacuum or atmosphere.
- **Motion:** Freely programmable casting trajectory for three-dimensional casting geometry.
- **Control:** Dosing control unit for plant and process monitoring; glass cylinder design allows direct observation of the preparation process.

Our micro casting systems ensure that your production reliably meets the particularly high demands regarding casting precision and geometry.

micro 

The precision is in the detail.



Optimal Preparation

- Vacuum-tight mixing-dosing system with built-in dosing pumps, optional vessel heating
- Consistently evacuated and uniformly prepared casting materials, regardless of their viscosity
- Thorough, yet careful homogenization
- Manual or automatic continuous filling, regardless of the type and size of delivery container

Accurate Dosing

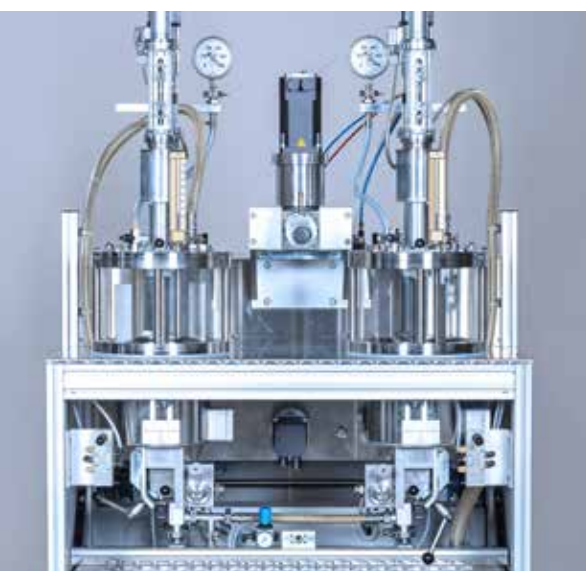
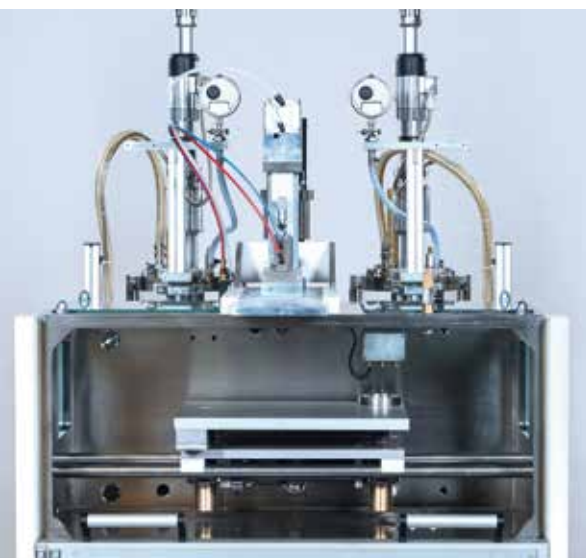
- Dosing from evacuated vessels
- Fully adjustable mixing ratio, guaranteed compliance with the set mixing ratio
- Electronically controlled piston dosing pumps
 - wear-resistant, maintenance-free and pressure-lossless, even with highly viscous, filled and abrasive casting materials
 - option: fully ceramic design
- sensor-based dosing monitoring and control

Perfect Mixing

- Patented HÜBERS static mixer, flow-optimized and without dead space
 - optional cooling, heating or temperature control
- Alternative: disposable mixer for highly reactive materials with a short potlife or dynamic mixer

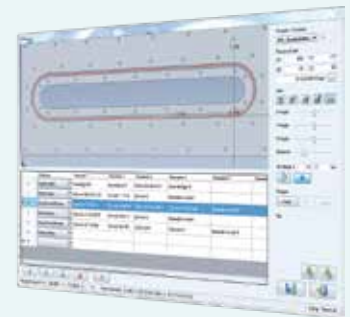
Flexible Casting

- Vacuum casting chamber for casting under vacuum, coordinate table for casting under atmosphere
- Single casting head or multi-dosing head system



Motion Casting and Casting Trajectory Control

- From simple axis movements up to complex three-dimensional trajectories
- CNC programming via Graphical User Interface based on CAD/CAM technology
- Interpolation of mathematical functions and tables, linear interpolation
- Transfer and adaptation of trajectories also possible from drawings and pictures directly on the control panel



HÜBERS Verfahrenstechnik Maschinenbau GmbH
 Schlavenhorst 39 · 46395 Bocholt · Germany
 Telefon: +49 2871 281-0 · Telefax: +49 2871 281-1250
 E-Mail: info@huebers.de · www.huebers.de