Functional Processing *Polymer processing, Compounding*	Model: Unit and Room: Responsible: Further information:	*Xplore, DSM, Netherlands* *FMF, 2nd floor,R02020* *Uli Mattes, 203 4747* *http://www.fmf.uni-freiburg.de/service/servicegruppen/sg_rheol/service/index_html*

Short Description:

Universal Compounding equipment for small scale polymeric materials and fillers of all kind in wide temperature range (RT to 400 °C)

Available Experiments/Techniques:

Mixing, Compounding under control of temperature, mixing time and rotary speed.

Picture of the Equipment

Special Equipment:

micro injection molding equipment for specimen preparation, chill roll and fiber drawing add on.

Measurements on the equipment are currently done by:	☐ Students ☒ Students after Introduction ☒ Students after extensive training ☒ Trained scientific service personal
Recent Publications, where this instrument was important (optional): Give citation	Peter Steurer, Rainer Wissert, Ralf Thomann, Rolf Mülhaupt, Macromol. Rapid Commun. 2009, 30, 316–327
Typical problems that may be solved with this instrument:	*-Structure-processing relationships for polymeric materials, including (nano-) composites.* *-Determination of processibility of matter.*