

Chair of Inorganic Chemistry I – Equipment Dispersion

Professor Dr. Josef Breu

Equipment	Type	Characteristics	Advisor
Jaw crusher	Fritsch Pulverisette 1	pre-crushing of medium hard, hard, brittle and tough materials	Puchtler
Ball mill	Retsch S1	milling cups: agate, tungsten carbide	Puchtler
Planetary ball mill	Retsch PM 100	milling cup: zirconium oxid	Puchtler
Rotor mill	Fritsch Pulverisette 14		Puchtler
Cryo mill	SPEX CertPrep 6750 Freezer/Mill	milling under cooling with liquid N ₂	Martin
Vibrating screens	Fritsch Analysette 3 SPARTAN		Puchtler
Sonication finger	Misonix Sonicator 3000	20kHz, max. 750 W	Ament
Agitator bead mill	Netzsch Labstar LS1	wet milling down to nm-range	Edenharter
Microfluidizer	Microfluidics 110 Y	high pressure dispersion (1,2 - 1,5 kbar)	Edenharter
Threerole mill	Exakt 80E	dispersion and deagglomeration of highviscosity media	Puchtler
Speedmixer	Hauschild DAC 400.1 vak	dispersion and degasing of fluids and solids	Habel