

High Energy Ball Milling

Manufacturer: Retsch

Model: EMax

Description

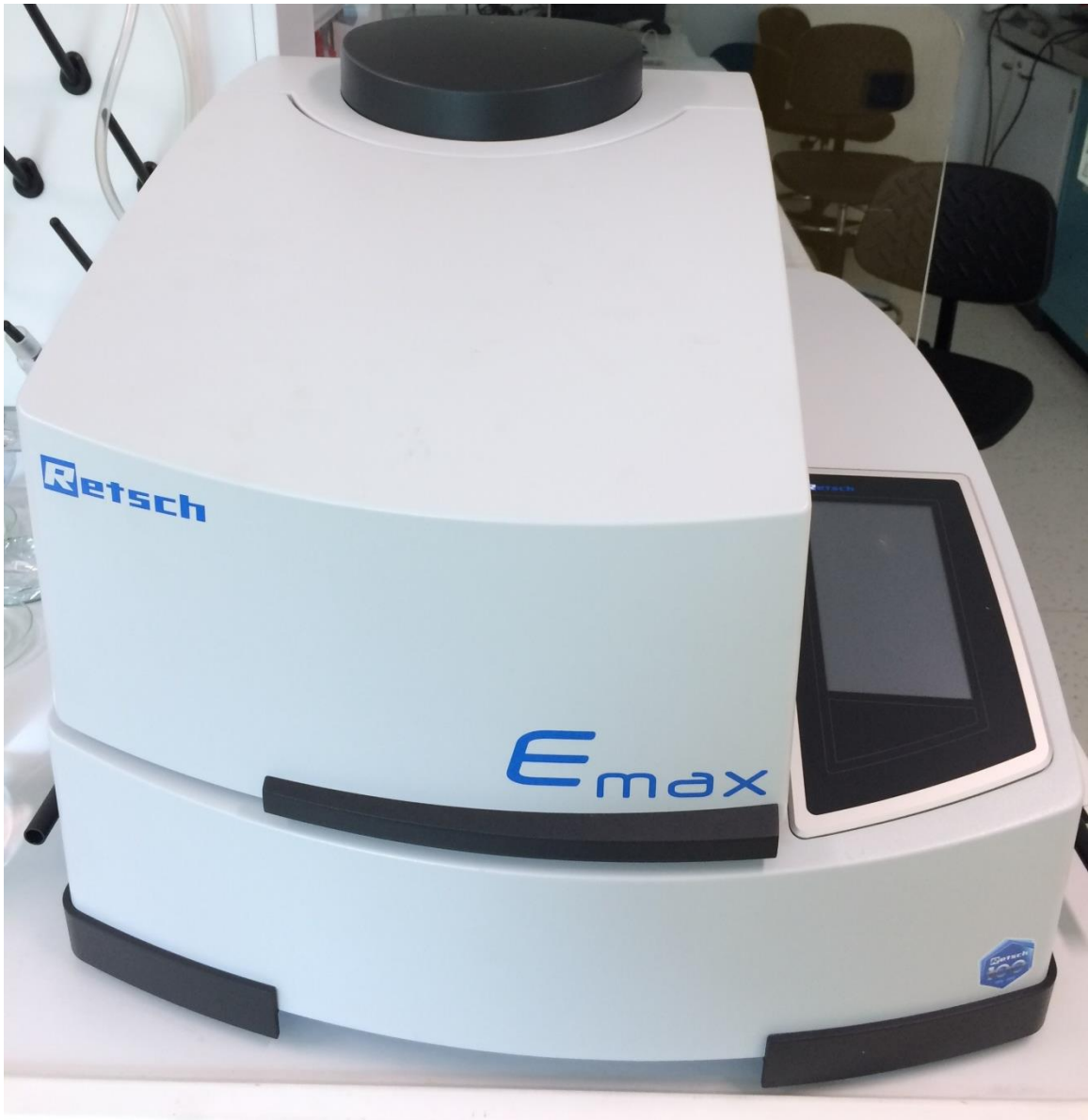
The Emax is an entirely new type of ball mill for high energy milling. The unique combination of high friction and impact results in extremely fine particles within the shortest amount of time. Due to the special grinding jar geometry, the sample is thoroughly mixed which results in a narrow particle size distribution.

Some of the highlighted features are listed below:

- Unrivaled speed of 2000 min⁻¹
- Continuous grinding operation without interruptions for cooling down
- Final fineness less than 80 nm

Detail specifications are listed in the table below:

Applications	nano grinding, size reduction, homogenizing, mechanical alloying, colloidal milling, high energy comminution
Field of application	agriculture, biology, Chemistry, construction materials, engineering / electronics, environment / recycling, geology / metallurgy, glass / ceramics, medicine / pharmaceuticals
Feed material	medium-hard, hard, brittle, fibrous - dry or wet
Size reduction principle	impact, friction
Material feed size*	< 5 mm
Final fineness*	< 80 nm
Batch size / feed quantity*	max. 2 x 45 ml
Speed at 50 Hz (60 Hz)	300 - 2000 min ⁻¹
Cooling	controlled integrated water cooling / option: external chiller
Temperature control	yes (min and max temperature may be defined)
No. of grinding stations	2
Type of grinding jars	with integrated safety closure devices
Material of grinding tools	stainless steel, tungsten carbide, zirconium oxide
Grinding jar sizes	50 ml / 125 ml
Setting of grinding time	00:01:00 to 99:59:59
Interval operation	yes, with optional direction reversal
Interval time	00:01:00 to 99:59:59
Pause time	00:01:00 to 99:59:59
Storable SOPs	10



Please contact the person in charge for the operation manual.