ATS SCIENTIFIC INC.
FOLIO INSTRUMENTS INC.
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MIXER MILL
MM 400

The **Mixer Mill MM 400** is a compact, versatile bench-top unit developed specially for dry, wet and cryogenic grinding of small sample amounts. This laboratory mill mixes and homogenizes up to 2 x 20 ml powders and suspensions within a few seconds. It is also perfectly suitable for the disruption of biological cells as well as for DNA/RNA and protein extraction. With its powerful performance and great flexibility, the Mixer Mill MM 400 is a unique product in the market.

PERFORMANCE & DESIGN

- Powerful size reduction and homogenization by impact and friction with up to 30 Hz
- Equipped with 2 grinding stations for up to 20 samples per run
- Digital parameter setting ensures reproducible results
- Memory for 9 Standard Operating Procedures (SOP)

UNMATCHED VERSATILITY

- 3 different grinding modes: dry, wet or cryogenic
- Mixes powdered sample and binder in plastic vessels prior to pelletizing, e. g. for XRF analysis
- Suitable for research applications such as mechanochemistry or for biological cell disruption by bead beating

SPECIFICATIONS

Material feed size	<= 8 mm
Final fineness	~ 5 µm
Batch Size / Feed Quantity	max. 2 x 20 ml
No. of Grinding Stations	2
Vibrational Frequency	Digital, 3 - 30 Hz (180 - 1800 min-1)
Mean Grinding Time	30 s - 2 min
Wet, Dry & Cryogenic Grinding	Yes
Cell Disruption with Reaction Vials	Yes, up to 20 x 2.0 ml
Type of Grinding Jars	Screw Top Design, 1.5 ml / 5 ml / 10 ml / 25 ml / 35 ml / 50ml
Material of Grinding Tools	hardened steel, stainless steel, tungsten carbide, agate, zirconium oxide, PTFE
Setting of Grinding Time	Digital, 10 s - 8 h
Storable SOPs / Cycle Programs	12 / 6
Power	1-Phase, 165 W
W x H x D Closed / Net Weight	385 x 350 x 470 mm / 27.5 kg

ATS Scientific Inc. (800) 661-6700 ats-scientific.com
Folio Instruments Inc. (800) 683-6546 folioinstruments.com

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