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Retsch[®]
MILLING SIEVING ASSISTING

The new MM 500 vario – Pulverizing 6 samples in one batch

The new Mixer Mill MM 500 vario is a versatile bench-top unit which was developed specially for dry, wet and cryogenic grinding of small sample amounts with high throughput. This powerful mill provides ultimate performance with maximum flexibility for your sample preparation process.

**Powerful
Six-Pack
increases your
sample
throughput**

Benefits at a glance:

- Maximum frequency of 35 Hz reduces grinding time to 50% compared to mixer mills with only 30 Hz
- Six grinding stations instead of two, as in classic mixer mills, ensure high throughput
- Grind sizes down to 5 µm possible
- Process time up to 99 h, ideal for research and mechanochemistry
- Grinding jar volumes from 1.5 to 50 ml, available in six different materials
- Up to 50 x 1.5 or 2 ml single-use vials per batch (with adapter)
- Suitable for all grinding jars and adapter for 0.5 / 1.5 / 2 / 5 ml single-use vials of the smaller MM 400 model



At a glance

Application	Size reduction, homogenization, cryogenic grinding, cell disruption, mixing, mechanochemistry, mechanical alloying
Fields of application	Agriculture, biology, chemistry / plastics, construction materials, engineering / electronics, environment / recycling, food, geology / metallurgy, glass / ceramics, medicine / pharmaceuticals, material science
Feed material	hard, medium-hard, soft, brittle, elastic, fibrous

Performance data

Size reduction principle	impact, friction
Material feed size*	≤ 8 mm
Final fineness*	~ 5 µm
Batch size / feed quantity*	max. 6 x 20 ml
No. of grinding stations	max. 6
Setting of vibrational frequency	digital, 3 – 35 Hz (180 – 2100 min ⁻¹)
Grinding modes	dry, wet, cryogenic
Material of grinding tools	hardened steel, stainless steel, tungsten carbide, agate, zirconium oxide, PTFE
Grinding jar sizes	1.5 ml / 5 ml / 10 ml / 25 ml / 35 ml / 50 ml
Grinding time	10 s – 99 h, digital setting
Storable SOPs	12
No. of storable program cycles	4 (with 99 repeats)
Control via RETSCH App	optional

Technical data

Power connection	1-phase
Protection code	IP 30
Power drive	750 W
W x H x D closed	690 x 375 x 585 mm
Net weight	~ 60 kg
Standards	CE

*depending on feed material and instrument configuration

Accessories MM 500 vario

The MM 500 vario can be equipped with screw-top grinding jars from 1.5 ml to 50 ml. Available materials include hardened steel, stainless steel, tungsten carbide, agate, zirconium oxide, PTFE.

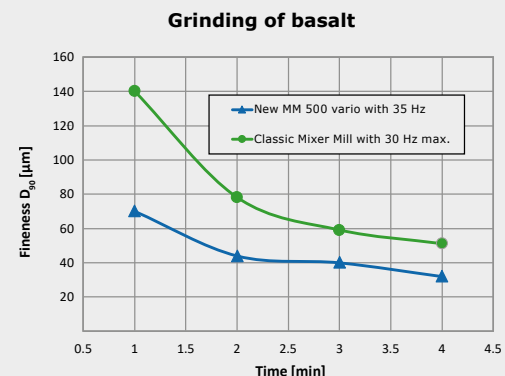


Accessories for MM 500 vario – Adapter for single-use vials



Dry grinding of basalt

Grinding of basalt in the MM 500 vario results in better fineness compared to classic Mixer Mills thanks to the increased frequency of 35 Hz instead of 30 Hz (50 ml jar + 12 x 12 mm grinding balls).



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