PLANETARY BALL MILL

PM 400

Planetary Ball Mills are used wherever the highest degree of fineness is required. Apart from the classical mixing and size reduction processes, the mills also meet all the technical requirements for colloidal grinding and have the energy input necessary for mechanical alloying processes. The extremely high centrifugal forces of planetary ball mills result in very high pulverization energy and therefore short grinding times. The PM 400 is a robust floor model with 4 grinding stations. You may also be interested in the High Energy Ball Mill Emax, an entirely new type of mill for high energy input. The unique combination of high friction and impact results in extremely fine particles within the shortest amount of time.

PRODUCT ADVANTAGES

- Powerful and quick grinding down to nano range
- Reproducible results due to energy and speed control
- Suitable for long-term trials, both wet and dry
- Optional pressure and temperature measuring system PM GrindControl
- Wide range of materials for contamination free grinding
- Safety Slider for safe operation
- Automatic grinding chamber ventilation
- Programmable starting time with storage for up to 10 SOPs
- Power failure backup ensures storage of remaining grinding time
- Jars with O-type sealing for safe operation, pressure tight

SPECIFICATIONS

Material feed size	< 10mm
Final fineness	< 1 µm, for colloidal grinding < 0.1 µm
Batch size / feed quantity	max. 4 x 220 ml, max. 8 x 20ml with stacked grinding jars
No. of grinding stations	4 / 2
Speed ratio	1:-2 / 1:-2.5 / 1:-3
Sun wheel speed	30 - 400 min-1
Effective sun wheel diameter	300mm
G-force	26.8g
Interval time	00:00:01 to 99:59:59
Measurement of input energy possible	Yes
Drive	1.5kW, 3-phase asynchronous motor with frequency converter
Power connection	1-phase
W x H x D closed	836 x 1220 (1900) x 780 mm
Net weight	~ 290 kg

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