



HIGH ENERGY BALL MILL GT600 MULTI/DUAL

- Feed Size:<10 mm
- Final fineness:<5 µm / 100nm
- Speed:60-2100rpm

The High Energy Ball Mill GT600 Multi/Dual is a versatile benchtop ball mill meticulously engineered for swift preparation of ultra-fine samples. It operates at a maximum frequency of 35Hz, delivering dependable performance and versatility.

It's well-suited for dry, wet, and cryogenic grinding of numerous small-volume samples, including plant and animal tissues. With the capacity to process 6-384 biological samples simultaneously, it supports high-throughput operations. It accommodates sample volumes ranging from 0.2 ml to 50 ml.

APPLICATIONS

Field of Application:

Biology, Pharmaceuticals, Food Safety, Ecological Environment, Agriculture Science, Chemistry, and Electronics.

Applications:

Sample pretreatment for nucleic acid extraction, preparation of ultrafine materials.

Types of Samples:

Hard, soft, elastic, and fibrous samples.

Typical Sample Categories:

- Plant roots, stems, leaves, grains, seeds, and oilseeds;
- Human and animal tissues, organs, bones, and hair;
- Ore, alloys, soil, glass, ceramics;
- Rubber, plastic products, solid waste, electronic waste;

- Paper and textiles;
- Chemicals, medicines, Chinese medicinal materials, and food;
- Tobacco, timber, wool, and more.

Ball Mill

Working Principle

Samples are loaded into the grinding container, which can be a stainless steel jar or a centrifuge tube/adaptor. These containers undergo radial oscillations in the horizontal direction. The high-frequency oscillation causes the grinding balls to strike the sample and the inner wall of the grinding jar vigorously, leading to a reduction in sample size.

FEATURES

- Typical grinding duration: From tens of seconds to 2 hours.
- Supports dry, wet, and cryogenic grinding and mixing.
- High throughput: Capable of handling up to 384 samples simultaneously.
- Programmable operation time, intermittent grinding, and method storage.
- Features a transparent window on the top lid, allowing observation of the grinding process.
- Ensures highly reproducible grinding results through digital parameter presetting.
- Offers various materials and sizes of grinding jars and accessories, providing a broader range of application options.
- Equipped with a safety lock on the top lid. The motor halts operation when the lid is opened during grinding, ensuring safety.

TECHNICAL SPECIFICATIONS

Feed Size	<10 mm
Final fineness	<5 µm / 100nm (depends on the property of sample)
Speed	60-2100rpm
Total grinding time	0-99hrs
No. of grinding stations	6/2
Grinding jar sizes	1.5/5/10/25/35/50/80/125ml
Material of grinding tools	hardened steel, stainless steel, tungsten carbide, zirconium oxide, agate, PTFE
Cell disruption adapter	Yes
Batch capacity	6 x 20ml/2x45ml
Storable SOPs	20
Editable programs	4
Wet/Cryogenic grinding	Yes
Rated power	1.1kw



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