PLANETARY BALL MILL

High Performance Grinding & Homogenizing Solution
for Battery Materials and Advanced Research

Fine Powder. Perfect Results. Every Time.

KEY FEATURES

Planetary Motion
High-energy planetary rotation with centrifugal force for ultra-fine grinding

High Efficiency
Fast and uniform grinding with excellent repeatability

Versatile Applications
Suitable for dry and wet grinding of various hard, soft, brittle and fibrous materials

Safe & Reliable
Safety interlock, imbalance detection and overload protection for secure operation

User Friendly
Digital control with programmable timer and easy operation

TECHNICAL SPECIFICATIONS

Parameter	Specification
Grinding Principle	Planetary rotation with centrifugal force
Grinding Jars	50 mL, 100 mL, 250 mL, 500 mL (optional up to 1 L)
Jar Materials	Stainless Steel, Zirconia, Agate, Tungsten Carbide, Nylon
Maximum Feed Size	≤ 10 mm
Final Particle Size	Down to 0.1 µm (depending on material and grinding media)
Speed Range	50–600 rpm (variable)
Grinding Modes	Dry and Wet
Control	Digital touchscreen / LCD with programmable timer
Safety Features	Safety interlock, imbalance detection, overload protection
Power Supply	220–240 V AC, 50 Hz

ADDITIONAL SPECIFICATIONS

• Number of Jars	2 / 4 (Model dependent)
• Rotation Direction	Forward / Reverse
• Timer Setting	1 s – 99 h 59 min
• Pause Time Setting	1 s – 99 min
• Noise Level	≤ 60 dB
• Dimensions (W×D×H)	~ 600 × 420 × 460 mm
• Net Weight	~ 90 – 120 kg (Model dependent)

APPLICATIONS

- Cathode material grinding (LFP, NMC, LCO)
- Anode material preparation (Graphite, Silicon)
- Solid electrolyte powder mixing
- Nanomaterial synthesis
- Ceramic and composite material research
- Battery material R&D and quality control

Uniform Fine Particle Size | **High Grinding Efficiency** | **Dry & Wet Grinding** | **Safe & Reliable Operation** | **Ideal for R&D and Production**

Engineered for precision. Built for performance. | For Battery Research | Materials Science | Nanotechnology