

## Details of Microcomputer Planetary Ball Mill



### Frequency Control

We have recently launched two control panels: Touch Panel (TCA-1) and Touch Screen (PLC). **Touch Panel (TCA-1)**: easy to operate, simple and intuitive interface, it achieves alternate control of forward and reversal rotation, and has functions of timing and power off memory. **Touch Screen PLC Integrative Machine**: Pressure and Capacitance Control is flexible and easy to adjust. It can realize testing the machine status and clients can order customized functions according to their own requirements.

### Safety Cover

Internal Protection of Mill



### Planetary Mechanism

Planetary disc by whole casting, Newpressure pole, delicate and good appearance, Stable rotate speed, High efficiency, ultrafine grinding



### Hole of Cooling Fan

Running of machine at high speed enhances speed of air flow inside the machine effectively and improving of cooling speed ensures the stable operation for long time.



### Introduction of Microcomputer Planetary Ball Mill

Microcomputer planetary ball mill is a kind of equipment configured with a touch screen of operation & control system based on common planetary ball mill, which improves its grade and operation performance. Microcomputer planetary ball mill is mainly to meet high level clients' requirements of higher quality and better operation performance.

Hardware of control system is adopted with famous brand's products with strong functions of password setting, programming freely, storage and call of multiple sets of programs, process monitor and fault alarm. Visual operation and simple humanization realize friendly human-computer interface.

## Performance of Machine

Transmission Mode	Gear Drive
Working Mode	2 or 4 Jars can be used each time
Max Load Volume for Material	2/3 of jar's volume
Mill Jar Volume	50 mL, 100 mL, 250 mL, 500 mL
Feed Size	Soft and Brittle materials ≤ 10 mm
Out-put Granularity	Finest Granularity can be reached to 0.1 μm
Ratio of Rotation and Centrifugal acceleration force	1: -2, 44 gforce
Rotational Speed	70 -670 RPM, adjustable
Wheel Diameter	300 mm
Machine Dimensions and Weight	750 mm x 470 mm x 564 mm , 93 kg excluding accessories
Adjusting Mode of Rotate Speed	Frequency Converter with Stepless Speed Regulation
Type of grinding jars and milling balls materials	Stainless Steel, Zirconia, Agate, Alumina, Tungsten Carbide, Teflon, PU, Nylon
Machine Cooling System	Built-in cooling fan for long duration milling
Machine Certification	ISO 9001, CE

### Features of 1L (4 x 250ml) Vertical High Energy Planetary Ball Mill with Touchscreen Controller

- Touchscreen controller for easy operation and problem fixing
- Special gear design for low noise and vibration.
- Stable rotation speed.
- Programmable milling segments, with reversible rotation option.
- Secured jar holders to prevent jars from flying out.
- Safety guaranteed transparent view port.
- One year product warranty (excluding consumables) and long term product and applications support.
- Customized power supply. Please specify when placing the order.

### Applications of Planetary Ball Mills:

Mixing, grinding and milling of powder materials to micrometer size or nanometer size. Typical materials for grinding and milling include ceramics, powdered metals for additive manufacturing, lithium battery materials, cannabis plant materials, minerals, pigments, agrochemicals, etc. Both dry milling and wet milling with solvent can be performed.

