

Planetary Ball Mill with Inert Gas Purging Facility

Maximum feed particle size	:	up to 10 mm
Final fineness	:	< 1 μm (Documentary evidence to be provided)
No. of bowls	:	4 bowls of 250 ml volume
Electrical details	:	230 V/ 1~, 50-60 Hz
Effective diameter of main disk	:	Less than or equal to 250 mm

Other specifications and required features:

- 4 Nos. of 250 ml bowls made of hard metal tungsten carbide should be offered having more than 90% tungsten carbide and cobalt.
- 10 mm grinding balls made of hard metal tungsten carbide (100 nos.) to be provided
- Special lid for grinding in inert atmosphere must be provided
- Rotational Speed of main disk up to 400 rpm
- Use of gas pressure and temperature measuring system (GTM) i.e., the mill should have the facility of continually monitoring and recording the data of gas pressure and temperature during the grinding process.
- Centrifugal Acceleration of the milling should be minimum 20 g.
- Typical grinding time down to analytical fineness should be approximately 4 minutes
- Dry and wet grinding should be possible.
- Bench top model with high grinding performance
- No-Loss grinding, even in suspension
- Compensation of unbalance of all grinding bowls using a compensation mechanism which is easy to operate.
- Possibility to add additional lock-system and/or special lid for grinding in inert atmosphere
- Synchronous toothed belt drive of the bowls to guarantee a slip-free and constant transmission ratio between the bowls and main disc
- Grinding chamber cooling built-in to permit longer grinding times
- Programmable interval and break times and rotation direction (clock wise & anti clock wise)
- “Safe lock” clamping system
- Absolutely reproducible grinding parameters with use synchronous belts for transmission.

- Simple cleaning of grinding elements

Other terms

- 1 year comprehensive warranty with service and spare parts must be provided
- Installation and training must be done on site
- Equipment must have been supplied to at least 3 educational/research institutions and installation certificates must be provided