

Planetary Ball Mills

Principle

The material to be ground and the grinding balls in a planetary ball mill are subjected to centrifugal forces due to rotation of the sun wheel superimposed with centrifugal forces due to rotation of the grinding jars in opposite direction. This leads to a very high and effective size reduction of the material to be ground due to high impact forces.

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| Manufacturer | Fritzsch |
| Model | Pulverisette P6 |
| Rated power | Max. 1.1 kW |
| Speed range | 100 - 600 min ⁻¹ |
| Screen size of feed stock | max. ~ 10 mm |
| Feed stock volume | max. 225 ml |
| Number of milling jars | 1 |
| Available materials for milling jars and grinding balls | Stainless steel, hard metal, ZrO ₂ |
| Final particle size | Depending on material, typically < 1 μm |
| Inert atmosphere possible? | yes (argon) |
| Wet grinding possible? | yes (isooctane, water, ethanol) |
| Temperature- / pressure controlled grinding? | yes (GTM system) |
| High pressure atmospheres? | yes (EVICO system, up to 150 bar) |
