

Planetary Ball Mills

Applications

Torrey Hills series of planetary ball mills are designed for small batch high efficiency mixing. They are commonly used in research institutions, universities and even industrial production for mixing, homogenization and dispersion up to 0.1µm. Because of the mill's versatility, we have customers in virtually every industry such as mining, agriculture, metallurgy, electrical, electronics, materials, chemical, pharmaceutical, cosmetics, food, and nuclear industries.

The planetary Ball Mill performs mixing by continually revolving the sun wheel and rotating the grinding jars concurrently. Both the wheel revolution (centrifugal) speed and jar rotation (planetary) speed are independently

adjustable. This unique mixing capability allows the operator to design precise solutions for mixing various systems. To further improve mixing efficiency, grinding media can be added into the grinding jars. Our machines are built in such a way that the strict weight balancing is not required.

Advantages

- Efficient grinding for superior results up to 0.1µm
- Adjustable speed ratios
- Grinding jar volumes from 50ml to 5L in 8 different materials
- Reliable for continuous use
- No strict weight balancing required

MODELS

Models	ND 0.4L	ND 2L	ND 4L	ND 12L	ND 20L
Capacity	4x0.1 Liters	4x0.5 Liters	4x1.0 Liters	4x3.0 Liters	4x5.0 Liters
Centrifugal Speed (rpm)	0-300	0-285	0-260	0-215	0-135
Planetary Speed (rpm)	0-600	0-575	0-525	0-430	0-275
Motor Power (kW)	0.55	0.75	1.5	4	5.5

GRINDING JARS AND MEDIA

Grinding Jar Material/Jar Volume	50ml	100ml	150ml	250ml	300ml	400ml	500ml	1L	2L	3L	4L	5L
Stainless Steel	√	√	√	√	√	√	√	√	√	√	√	√
Stainless Steel - Vacuum Insulated	√	√	√	√	√		√	√	√		√	
Agate	√	√	√	√	√	√	√	√	√	√	√	√
Alumina 99.95%	√	√		√			√	√	√	√	√	√
Nylon	√	√	√	√	√	√	√	√	√	√	√	√
Teflon	√	√	√	√			√	√		√	√	√
Tungsten Carbide		√		√								
Zirconia	√	√		√			√					

Grinding balls are available 6mm, 10mm, and 20mm in diameter.

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