

MILLING250 Series Laboratory Planetary Ball Mills



Minimum granularity of ground powder can be as small as 0.1 μ m



Various kinds of different materials mill with dry or wet method.



Two or four ball mills work at the same time

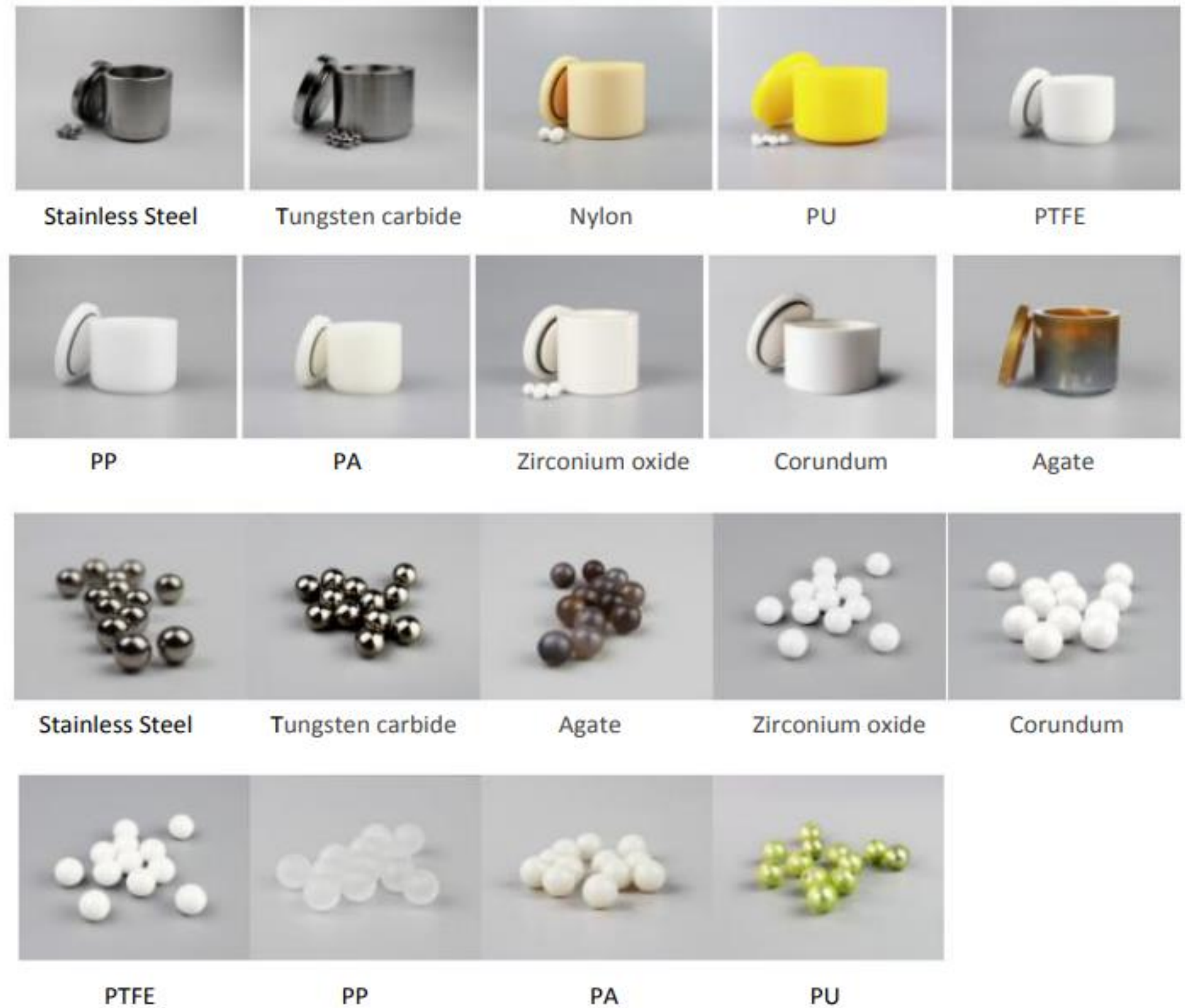


Shredding, homogenization and mixing of samples



A wide range of rotation speed settings

Grinding Jar & Ball



MILLING250 Series Laboratory Planetary Ball Mills

COLO Planetary Ball Mill which is widely used in agriculture, biology, chemistry, construction, engineering, environment, geology, pharmaceutical and other industries. Its planetary ball design with high centrifugal forces greatly improves grinding efficiency. Four grinding jars can feed with different samples which can meet various requirements and save experiment time.

Features

- Application of wide range of materials
- Suitable for long time trails
- Both dry and wet grinding modes
- Maximum sample volume 2000ml
- Low noise running
- Final sample fines less than 100nm
- Easy and user-friendly operation

Some application

- Medicine : tablets, herb
- Chemistry : chemical products
- Biology: bones, hair
- Environment :soil, plant, seeds
- Food: coffee beans, tobacco
- Geology: clay minerals, limestone, concrete, coal, metals
- Industry: paper, glass, fibers, ceramics, quartz, wood, paints



Available grinding balls in full sizes

- Stainless steel balls, zirconia balls, alumina balls, PU balls, steel carbon balls, tungsten balls, agate balls, hard metal balls, silicon nitride balls, high wear resistant steel ball, manganese steel balls, cemented carbide, crystal glass and other special metal materials.



Recommendation For Matching Solutions About Mill Jars & Materials	
Categories of Materials	Recommended Mill Jars
Soil and other Materials which are not allowed with any impurity	Agate mill jar
Metal & nonmetal materials which are not allowed with any impurity	Zirconia mill jar
High hardness materials like diamond, tungsten carbide	Tungsten carbide mill jar
Strong acid & alkali materials or other materials at high temperature	PTFE mill jar
Iron ore materials with lower impurity sensitivity	304 Stainless steel mill jar
Pigment or other materials with later process under high temperature	Nylon mill jar
Aluminum materials like ceramic glaze	Corundum mill jar
Electronic materials like lithium battery	Polyurethane mill jar
Easily oxidized materials or some special materials which need to be protected under special atmosphere.	Vacuum mill jar



References for Matchable Jar Sizes				
Model No.	Total Volume (L)	Matchable Jar Sizes	Matchable Jars Quantity	Matchable Vacuum Jar Sizes
MILLING250-0.2	0.2L	50ml	2pcs or 4pcs	
MILLING251-0.4	0.4L	50-100ml	2pcs or 4pcs	50ml
MILLING252-2	2.0L	50-500ml	2pcs or 4pcs	50-250ml
MILLING253-4	4.0L	250-1000ml	2pcs or 4pcs	50-1000ml
MILLING254-6	6.0L	1-1.5L	2pcs or 4pcs	50-1000ml
MILLING255-8	8.0L	1-2L	2pcs or 4pcs	50-1500ml
MILLING256-10	10L	1-2.5L	2pcs or 4pcs	1-2L
MILLING257-12	12L	1-3L	2pcs or 4pcs	1-2L
MILLING258-20	20L	2-5L	2pcs or 4pcs	2-4L
MILLING259-40	40L	5-10L	2pcs or 4pcs	5L
MILLING2510-60	60L	10-15L	2pcs or 4pcs	10L
MILLING2511-100	100L	20-25L	2pcs or 4pcs	20L

Main Parameters of Vertical Planetary Mill Ball					
Model	Power (KW)	Voltage	Dimension(mm)	Revolution Speed (rpm)	Rotation Speed (rpm)
MILLING250-0.2	0.09	220V-50Hz	250*425*280	45-435	90-1160
MILLING251-0.4	0.25	220V-50Hz	500*300*340	45-435	90-870
MILLING252-1	0.75	220V-50Hz	750*470*564	35-325	70-670
MILLING253-2	0.75	220V-50Hz	750*470*564	35-335	70-670
MILLING254-4	0.75	220V-50Hz	750*470*564	35-335	70-670
MILLING255-6	0.75	220V-50Hz	750*470*564	35-335	70-670
MILLING256-8	1.5	220V-50Hz	900*600*640	35-290	70-580
MILLING258-10	1.5	220V-50Hz	900*600*640	35-290	70-580
MILLING259-12	1.5	220V-50Hz	900*600*640	35-290	70-580
MILLING2510XQM-16	3	220V-50Hz	950*600*710	30-255	60-510
MILLING2511-20	4	380V-50HZ	1200*750*920	25-215	50-430

Item Name	MILLING250	MILLING251	MILLIBG252
Capacity L	0.2	0.4	2
Jar of Each Capacity ml	15-50 ml	50~100ml	50~500ml
Jar quantity pcs	4	4	4
Adjustable , Revolution	45~485rpm	45~435rpm	35~335rpm
Speed Rotation	90~890rpm	90~870rpm	70~670rpm
Max sample size	≥5ml	≥10ml	10ml
Speed Control Mode	Frequency Control 10 - 30HZ		
Transmission Mode	Gear Drive		
Timer settings	10 sec to 60 min		
Display	Parameter settings and control frequency and time		
Working Mode	2 or 4 pots can be used each time		
Maximum Sample Volume (material grinding ball)	2/3 of the volume of the ball mill tank		
Feed Size	Soft and Crispy material<10mm, Other materials<3mm		
Output Granularity	Minimum Granularity can be reached to 0.1um		
Materials of Jar	Stainless-steel. agate, nylon, coronium, zirconium ...		
Power supply	0.2kW	0.26kW	0.75kW
External Size(W*D*H)mm	354×218×206 mm	530x300x340	750x470x565
Net Weight (kg)	8.9 kg	29kg	80kg
Power Supply	AC100~240V, 50/60Hz		

Please note
If this Ball Mill does not match the specific needs of your application, or some options are not listed for sale, please feel free to contact us. Our manufacturing engineers will come up with technical solutions to meet your needs. We reserve the right to change technical specifications at any time.

COLO LabExperts



Laboratory Equipment production and Distribution

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