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# TENCAN

## Product Brochure



**DRUM BALL MILL SERIES**

## Inner lined roll ball mill

**QM**

Inner lined roll ball mill for fine grinding, mixing, and dispersing of materials. Uses impact and shear from media and slurry in a rotating drum. Ideal for laboratory and industrial powder processing.

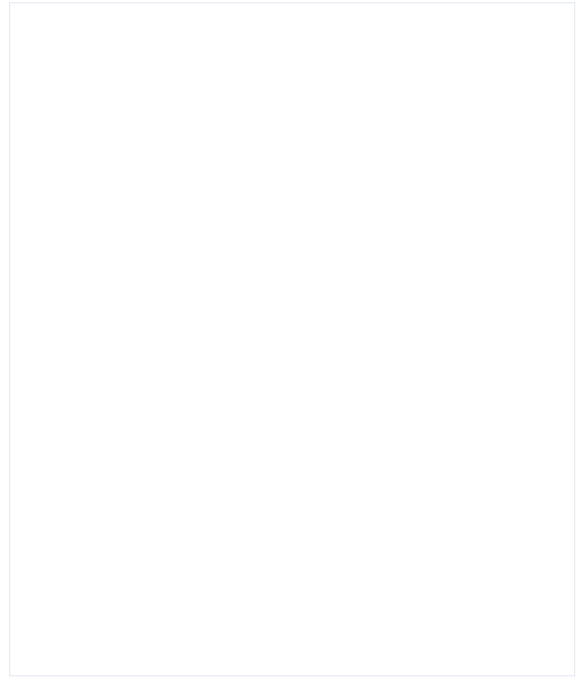
<https://www.planetaryballmills.com/products/grinding-series/drum-ball-mill/inner-lined-roll-ball-mill.html>



## Product Overview

Inner lined roll ball mill for fine grinding, mixing, and dispersing of materials. Uses impact and shear from media and slurry in a rotating drum. Ideal for laboratory and industrial powder processing.





## **Product Introduction**

When the lined drum ball mill is working, the grinding media and materials in the cylinder are raised to a certain height with the rotation of the cylinder. Due to gravity, they break away from the cylinder wall and fall along a parabola. The grinding media and materials roll at high speed in the grinding tank, causing strong shearing, impact, and rolling of the materials to achieve the purpose of crushing, grinding, dispersing, and emulsifying the materials.









## Technical parameters

name	Volume(L)	Speed(rpm)	Loading capacity (L)	Motor power(kw)	Grinding barrel material	Feed particle size (mm)	Discharge particle size (mesh)	Speed regulation method
QM-30L	30	20~60	10.5	0.75	carbon steel Stainless steel	≤5	≥300	Frequency conversion speed regulation or fixed speed
QM-50L	50	20~50	17.5	1.5				
QM-100L	100	20~45	35	2.2	Can be lined Nylon polyurethane PTFE Corundum etc.	≤10		
QM-200L	200	20~40	70	4				
QM-300L	300	20~38	105	5.5				
QM-500L	500	20~36	175	7.5				
QM-1000L	1000	20~34	350	11				
QM-2000L	2000	20~34	700	22				

\*Note: 25-50L is single-phase 220V, and above 50L is three-phase 380V

1. Model description: QM-(Volume)-(A speed regulating type, B ordinary type) For example: QM-50-A is a 50L speed regulating roller ball mill;
2. Determine the machine model based on the grinding volume ;
3. Select ball mill tanks (or different ball mill tank linings) and grinding balls of different materials according to the material properties. ;
4. You can choose equipment with automatic unloading device and dust cover.

## Product Features

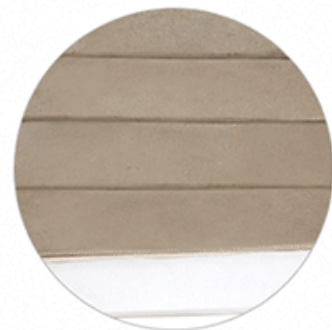
1. The machine operates smoothly, is highly efficient and energy-saving, and has low noise.;
2. It can be used for dry or wet grinding, can handle materials of various hardness, and can be used for coarse or fine grinding or mixing of materials. ;
3. With automatic unloading machine, materials and balls can be separated automatically, making discharging convenient ;
4. Using a protective jacket, the material has high purity and low pollution ;
5. Anti-wear, high grinding efficiency ;
6. Alloy steel, stainless steel, high wear-resistant polyurethane, corundum ceramic, zirconia and other linings can be used. The model can be selected from 25-2000L according to the user's output.



Alumina Lining



Polyurethane Lining



Zirconia Lining

## Accessories & Customization

### Accessories

Grinding jars, heating elements, sample holders, control modules and other matching accessories can be selected according to the product configuration.

### Customization

For voltage, capacity, chamber size, process temperature or application requirements, please contact TENCAN for a suitable configuration.