

Professional  
Powder Equipment  
Manufacturer



Powder  
Equipment



Milling  
Technology



Powder  
Materials

# TENCAN

## Product Brochure



**DRUM BALL MILL SERIES**

## lab roll ball mill

**QM**

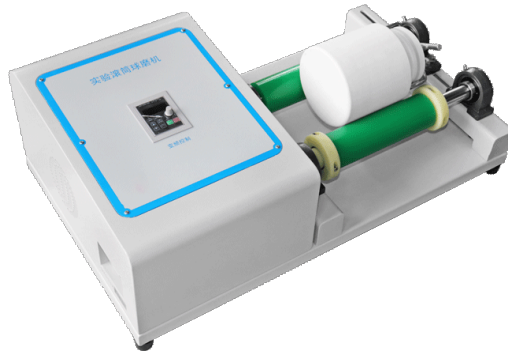
Lab roll ball mill grinds materials via impact and friction of grinding media. Ideal for powder preparation in research, mining, and materials science. Compact, precise speed control.

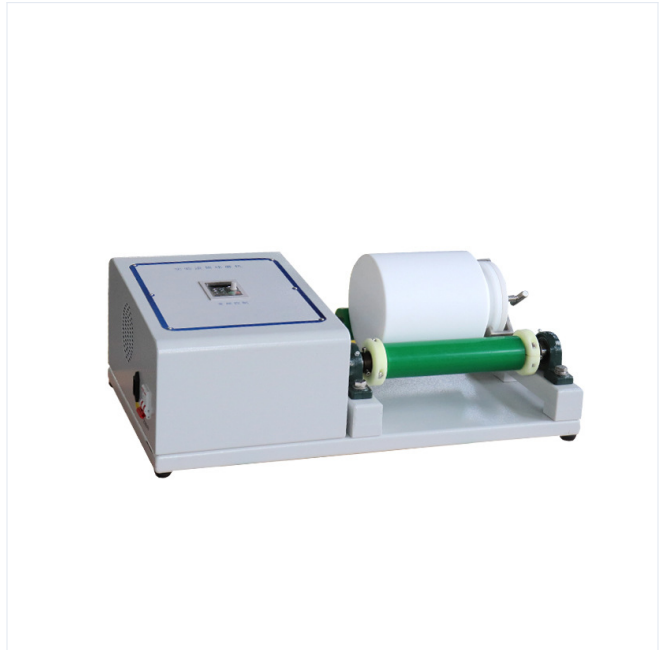
<https://www.planetaryballmills.com/products/grinding-series/drum-ball-mill/lab-roll-ball-mill.html>



## Product Overview

Lab roll ball mill grinds materials via impact and friction of grinding media. Ideal for powder preparation in research, mining, and materials science. Compact, precise speed control.





## Product Introduction

When the laboratory 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, and fall away from the cylinder wall due to gravity and fall along a parabola. The materials are crushed under the impact of the grinding media and the friction and shear caused by the rolling and sliding of the grinding media.



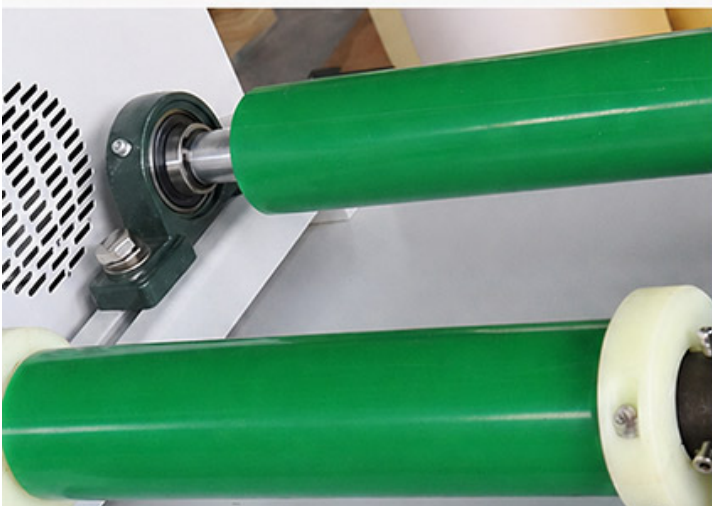
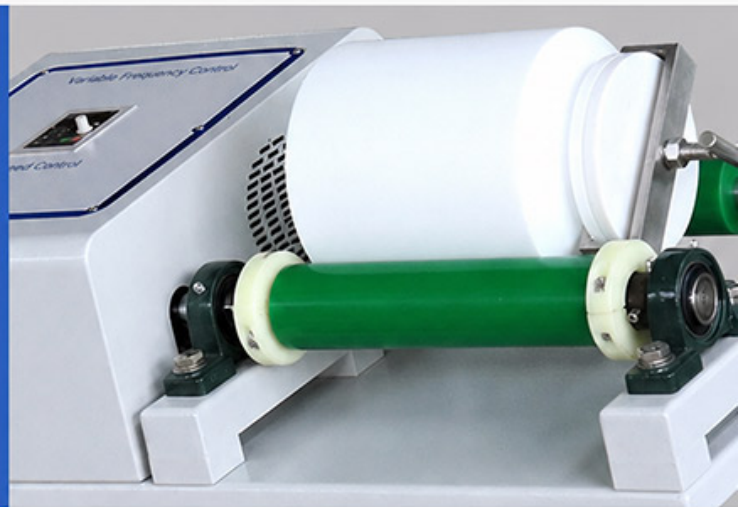


## Variable Frequency Control

The speed can be adjusted according to experimental requirements, up to 570 rpm (roller speed, not jar speed).

## Milling Jar

Compatible with different roller jars; the jar can be replaced directly.



## Driven Rubber Roller

Adjustable and compatible with jars of different sizes; easy to install.



Laboratory drum ball mill is an ultra-fine grinding and mixing equipment used in laboratories and small batch production. This machine is beautiful and novel, has a compact structure, is easy to operate, has high working efficiency, and has uniform grinding size. It is the preferred equipment for scientific research, teaching, testing, and production. It can be widely used in electronic materials, magnetic materials, biomedicine, ceramic glaze slurry, non-metallic minerals, metallic minerals, new materials and other industries.

## Technical parameters

category	model	Overall dimensions (mm)	weight	Motor power	Power specifications	Main roller speed (rpm)	Grinding jar outer diameter range (mm)	Work station adjustment distance (mm)	Polyurethane roller outer diameter (mm)	Single working condition Maximum load
Experimental single work station	QM-5	730X415X260	32KG	0.37KW	220V, 50/60HZ single phase	60~570±10	Φ70-Φ230	200-250	Φ60	22.5KG
	QM-15	845X435X270	43KG	0.75KW	220V, 50/60HZ single phase	60~570±10	Φ75-Φ300	295-330	Φ60	60kg
2 work stations	GQM-2-5	950X480X685	59KG	0.75KW	220V, 50/60HZ single phase	50~410±10	Φ70-Φ230	235-280	Φ60	22.5KG
	GQM-2-15	1130X550X690	80KG	1.1KW	220V, 50/60HZ single phase	40~365±10	Φ75-Φ300	295-370	Φ60	60kg
	GQM-2-20	1350X650X690	92KG	1.5KW	220V, 50/60HZ single phase	40~340±10	Φ80-Φ300	420-480	Φ60	80KG
4 workstations	GQM-4-5	950X660X690	70KG	0.75KW	220V, 50/60HZ single phase	50~410±10	Φ70-Φ230	235-280	Φ60	22.5KG
	GQM-4-5 (double layer)	950X480X870	92KG	0.75KW	220V, 50/60HZ single phase	50~410±10	Φ70-Φ230	235-280	Φ60	22.5KG
	GQM-4-15	1130X800X690	95KG	1.5KW	220V, 50/60HZ single phase	40~365±10	Φ75-Φ300	295-370	Φ60	60kg
	GQM-4-20	1350X820X690	122KG	2.2KW	380V, 50/60HZ Three phases	40~340±10	Φ80-Φ300	420-480	Φ60	80KG
8 work stations	GQM-8-5	950X660X960	106KG	1.5KW	220V, 50/60HZ single phase	50~410±10	Φ70-Φ230	235-280	Φ60	22.5KG
	GQM-8-15	1130X800X960	152KG	2.2KW	380V, 50/60HZ Three phases	40~365±10	Φ75-Φ300	295-370	Φ60	60kg

\* The contents of the above table are reference technical parameters. For specific parameter values, please contact our salesperson or technical personnel for communication and confirmation.;

\* Optional: [Hand Crank Device] and [Auxiliary Rotation] only support 2 stations, 4 stations, and 8 stations. ; [Protective Cover] Supports the purchase of all series ;

## Product Features

1. This machine has compact structure and simple operation;
2. High working efficiency and uniform grinding particle size ;
3. By adjusting the driven rubber roller, ball mill tanks with different outer diameters within a certain range can be used. ;
4. It is easy to change the can, and can be used for dry or wet grinding.

## 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.