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Product Brochure



DRUM BALL MILL SERIES

Four station jar mill

GQM-4

Four-station jar mill for ultra-fine grinding and mixing in lab & small-scale production. Compact, efficient, uniform particle size. Ideal for research, teaching, and pilot manufacturing.

<https://www.planetaryballmills.com/products/grinding-series/drum-ball-mill/four-station-jar-mill.html>



Product Overview

Four-station jar mill for ultra-fine grinding and mixing in lab & small-scale production. Compact, efficient, uniform particle size. Ideal for research, teaching, and pilot manufacturing.





Product Introduction

Tank ball mill, also called roller 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, metal powder, non-metallic minerals, new materials and other industries. The machine has a novel appearance, advanced structure and is easy to use. The rotating speed of the tank of this machine is optimized, and the tank is rotated by the rubber roller, which can make the medium balls in the grinding tank form a tilting motion to disperse the materials and obtain a suitable grinding effect. The tank mill (rolling table machine) is controlled by a digital display time controller. The working time can be set at any time as needed, and it has pause and cumulative timing control functions. The operation saves time, effort, and is easy and convenient.



1. Multiple samples can be ground at the same time;
2. Can operate intermittently or continuously ;
3. Able to time according to requirements ;
4. Suitable for fine grinding of materials with high crushing efficiency ;
5. The tank load-bearing rubber roller is made of special materials and is durable.



Modern Appearance, Compact Structure

Attractive appearance, easy operation

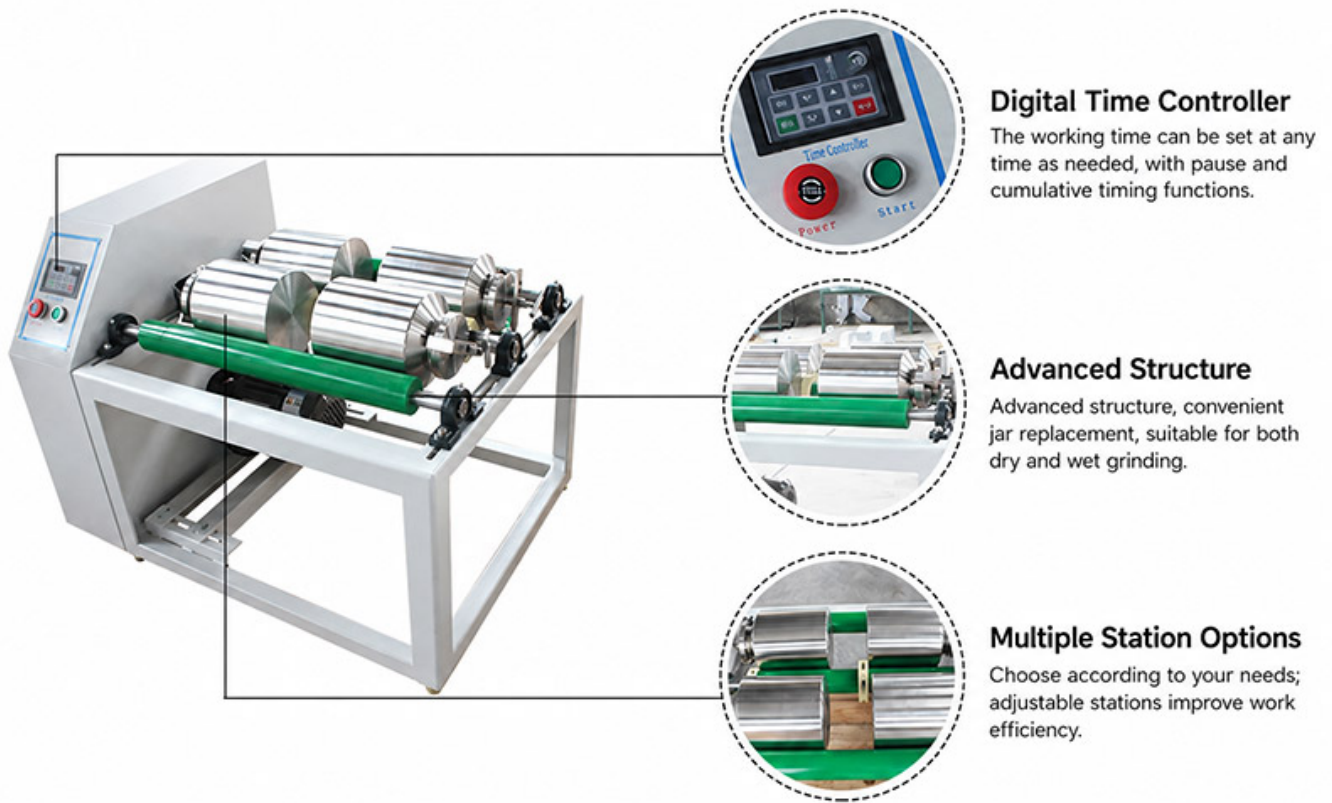
Optimized Speed Design

The jar is driven by rubber rollers to rotate, achieving excellent grinding results



Fine Workmanship, Easy Jar Replacement

Precision-built, durable and reliable
Easy jar replacement, high efficiency,
uniform grinding fineness



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
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
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
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 ;

Working Principle

When the tank mill 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.

Accessories & Customization



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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.