

Professional
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Milling
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TENCAN

Product Brochure



PLANETARY BALL MILL SERIES

Horizontal light-duty ball mill

WXQM

Horizontal ball mill for fine grinding soft to medium-hard materials. Ideal for lab research, chemical, and ceramic sectors. Compact.

<https://www.planetaryballmills.com/products/grinding-series/planetary-ball-mill/horizontal-light-duty-ball-mill.html>



Product Overview

Horizontal ball mill for fine grinding soft to medium-hard materials. Ideal for lab research, chemical, and ceramic sectors. Compact.





Product Introduction

The light horizontal planetary ball mill is equipped with four horizontally installed ball milling tanks symmetrically on a vertical planetary disk. The ball mill tank does not have a fixed flat bottom during planetary motion. During the process of grinding materials, the grinding balls in the tank are affected by the two centrifugal forces of revolution and rotation, as well as the influence of their own gravity, which helps to strengthen the degree of disordered movement of the grinding balls and materials, and improve the grinding effect and grinding efficiency. Since the ball mill tank does not have a fixed flat bottom when it rotates, it can better solve the problem of some materials sinking to the bottom. The lightweight horizontal planetary ball mill has a simple structure and convenient operation, and is suitable for experimental research on small batches of samples in the laboratory.



Horizontal Milling Jar Structure

Solves the sedimentation issue of some materials.

Control Panel

Simple and convenient control panel, flexible to operate.



Viewing Window

Clearly observe the operating condition through the window.

Cooling Fan Vent

High-speed operation effectively improves airflow and heat dissipation, ensuring stable machine operation.





Dust Cover

Uses a protective cover to ensure high material purity and low contamination.

Grinding Drum

Optional linings include alumina corundum ceramic, zirconia ceramic, and other materials.



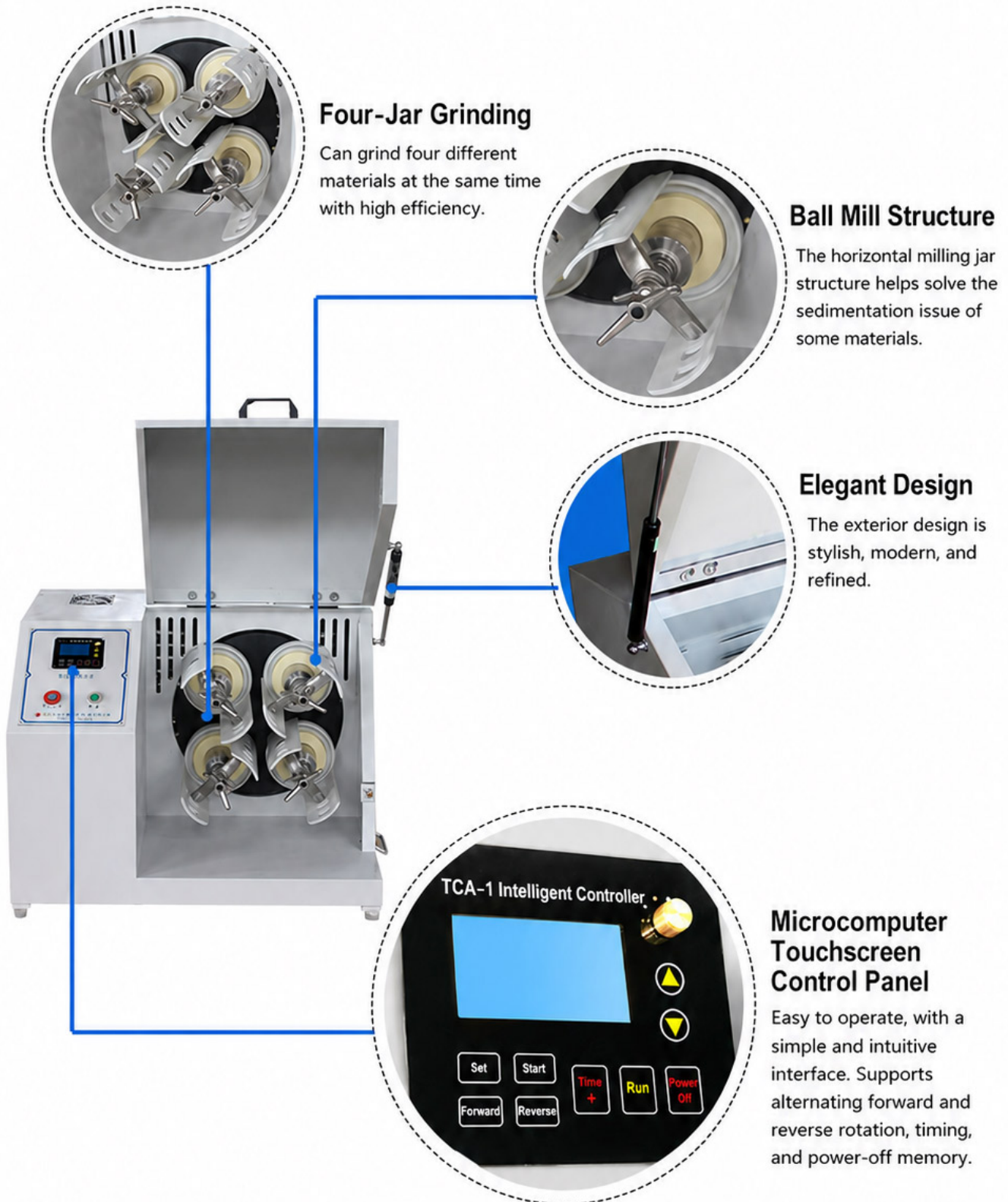
Exquisite Design

Features a newly designed exterior with a stylish, modern look.

Control Panel

Simple and convenient control panel, flexible to operate. Easy Operation





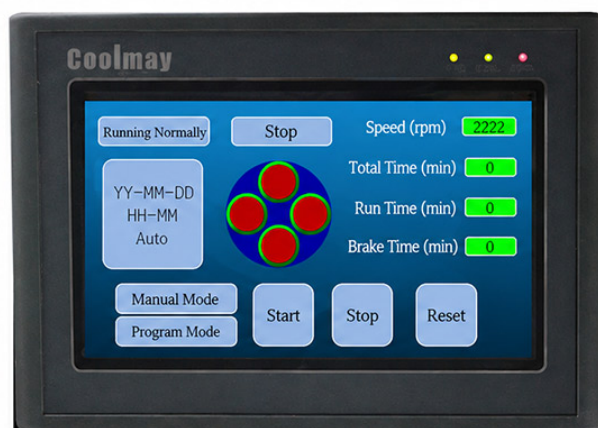
Four-Jar Grinding
Can grind four different materials at the same time with high efficiency.

Ball Mill Structure
The horizontal milling jar structure helps solve the sedimentation issue of some materials.

Elegant Design
The exterior design is stylish, modern, and refined.

Microcomputer Touchscreen Control Panel
Easy to operate, with a simple and intuitive interface. Supports alternating forward and reverse rotation, timing, and power-off memory.

The company also launched a microcomputer touch screen PLC all-in-one machine. Customers can choose a control panel according to their own needs. □



Microcomputer Touchscreen PLC Integrated Unit

- Capacitive touchscreen control is flexible and easy to adjust. The equipment status can be monitored in real time, and functions can be customized according to customer requirements.
- For more functions of the touchscreen PLC integrated unit, please contact customer service.

Horizontal planetary ball mill is widely used in geology, minerals, metallurgy, electronics, building materials, ceramics, chemical industry, light industry, medicine, environmental protection and other departments. It is suitable for electronic ceramics, structural ceramics, magnetic materials, lithium cobalt oxide, lithium manganate, catalysts, phosphors, long afterglow luminescent powder, rare earth polishing powder, electronic glass powder, fuel cells, zinc oxide pressure Production field of sensitive resistors, piezoelectric ceramics, nanomaterials, disc ceramic capacitors, MLCC, thermistors (PTC, NTC), ZnO varistors, dielectric ceramics, alumina ceramics, zirconia ceramics, phosphors, zinc oxide powders, cobalt oxide powders, Ni-Zn ferrite, Mn-Zn ferrite and other products.

Technical parameters

model	Drag ratio (rpm)	Grinding tank rotation speed (mm)	Inner diameter of grinding pot seat (mm)	Motor power	Grinding jar revolution diameter (mm)	Overall dimensions (mm)	Net weight(kg)
WXQM-(2-6)	0.134	0~670	134	0.75KW	F234	700×560×530	96
WXQM-(2-6)(H)	0.134	0~670	134	1.5KW	F234	1220×620×810	266
WXQM-(8-12)	0.116	0~580	162	1.5KW	Φ275	1360×670×920	380
WXQM-16	0.096	0~480	182	3KW	F385	1640×840×1040	470
WXQM-20	0.086	0~430	200	4KW	F385	1640×840×1040	730
WXQM-40	0.086	0~430	250	5.5KW	Φ430	1780×860×1070	790
WXQM-60	0.062	0~310(1:1.5)	275	7.5KW	Φ490	1980×1050×1220	1070
WXQM-100	0.058	0~290(1:1.5)	328	11kW	F578	2110×1150×1370	1210

Working Principle

The light horizontal planetary ball mill is equipped with four horizontally installed ball milling tanks symmetrically on a vertical planetary disk. The ball mill tank does not have a fixed flat bottom during planetary motion. During the process of grinding materials, the grinding balls in the tank are affected by the two centrifugal forces of revolution and rotation, as well as the influence of their own gravity, which helps to strengthen the degree of disordered movement of the grinding balls and materials, and improve the grinding effect and grinding efficiency. Since the ball mill tank does not have a fixed flat bottom when it rotates, it can better solve the problem of some materials sinking to the bottom. The lightweight horizontal planetary ball mill has a simple structure and convenient operation, and is suitable for experimental research on small batches of samples in the laboratory.

Product Features

The equipment shell has a novel and trendy design, lean manufacturing, exquisiteness and sophistication.; The materials of the machined parts are subject to strict heat treatment procedures and adopt CNC machining technology. The transmission gears are made of special materials and precision gears to ensure smooth, safe and quiet operation of the equipment at high speeds. ; The grinding tank pressing device is easy to operate, safe and reliable. It adopts a microcomputer touch screen, which is easy to operate. The interface is simple and intuitive. It can realize alternating control of forward and reverse rotation, and has timing and power-off memory functions.

Accessories & Customization

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.