



Technical resources

Vertical production planetary ball mill

Model: XQM

<https://www.tencanballmills.com/en/products/grinding-series/planetary-ball-mill/vertical-production-planetary-ball-mill.html>

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Vertical production planetary ball mill

Model: XQM

Vertical production planetary ball mill designed for large-scale grinding. Based on the principle of small planetary mills, it enables efficient batch production, suitable for industrial powder processing of various materials.

Technical specifications

Grinding jar specification	50ml~4L
Number of grinding jars	4 pieces
Speed control	Variable frequency control

These specifications describe the series. Confirm the selected model, power supply and configuration before ordering.



The vertical production-type planetary ball mill is a large-scale planetary ball mill designed and manufactured based on the principle of a small-scale planetary ball mill. The production-type planetary ball mill is mainly suitable for batch grinding production by users.

研磨系列

立式生产型行星球磨机/细节



行星式结构

Planetary structure



效率高

Efficient



能量大

High energy



粒度细

Fine granularity



四罐研磨

研磨效率高，一次可研磨四个样品。

控制面板

简易便捷的操作面板，操作灵活。

TCA-II 智能控制器



调节/确认

系统待机
总时:120 0 分
正转:5 0 分
转速:450 33.58r

启动

暂停

总时

正转

反转

间歇

停止



可视窗口

清晰看到窗内运行情况。

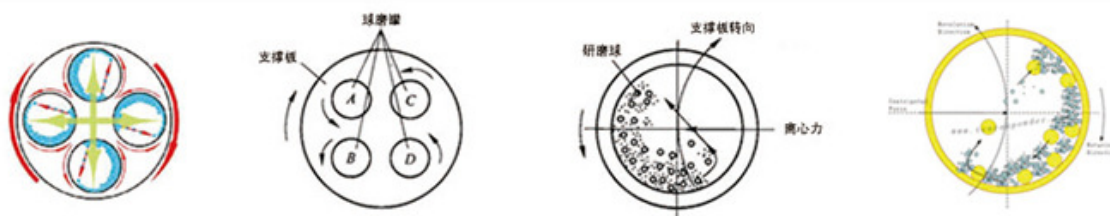
吊装倒料

60L以上的设备配备吊装倒料装置，人性化设计，操作更简便舒适。



研磨系列

行星球磨机/运行原理



行星球磨机的主盘上装有四个球磨罐，当电机驱动主盘转动时，球磨罐在随主盘轴公转的同时在主盘行星机构的带动下自转作行星式运动，罐中磨球在高速的行星运动中相互磨擦与碰撞，具有高效研磨和混合样品的功能



推拉门设计

立式60L以上均为推拉门设计，使用更方便

吊装倒料

人性化设计，操作更简便舒适，
吊装倒料一体



做工精致

50万模具成型，300万
精机制造，精工细致

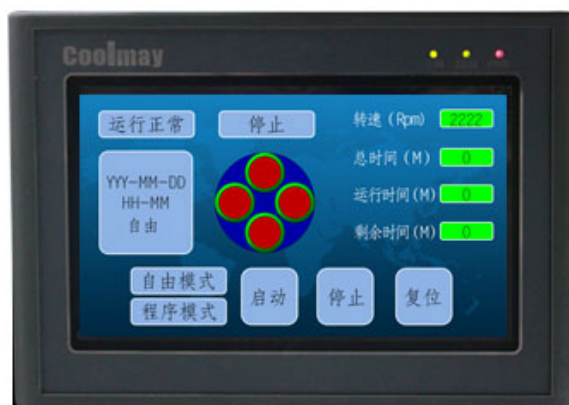
微电脑触控屏

操作方便，界面简单直观，
可实现正反转交替控制，
有定时和断电记忆功能





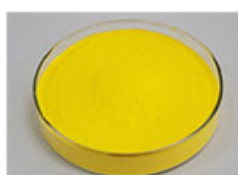
The company has also launched a microcomputer touch screen PLC all-in-one machine, and customers can choose a control panel according to their own needs.



微电脑触摸屏PLC一体机

- 压力电容屏控制灵活，调整方便，可以实时监测设备状态，可根据客户要求定制功能。
- 触摸屏PLC一体机更多功能请咨询客服。

Vertical production planetary ball mills are widely used in geology, minerals, metallurgy, electronics, building materials, ceramics, chemical industry, light industry, medicine, environmental protection and other departments. They are 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, oxidation Production field of zinc varistors, piezoelectric ceramics, nanomaterials, wafer ceramic capacitors, MLCC, thermistors (PTC, NTC), ZnO varistors, dielectric ceramics, alumina ceramics, zirconia ceramics, phosphors, zinc oxide powder, cobalt oxide powder, Ni-Zn ferrite, Mn-Zn ferrite and other products.



荧光粉



纳米材料



催化剂



电子陶瓷

Technical parameters

Basic configuration parameter table

model	Specification	Specification classification	Can be equipped with ball mill tank specifications	quantity	Available vacuum tank specifications	Equipment weight (kg)	Equipment volume (mm)
XQM-20	20L	Production model	2-5L	4	Can be equipped with 2-4L vacuum ball mill tank	392kg	1200×790×930

XQM-40	40L	Production model	5-10L	4	Can be equipped with 5L vacuum ball mill tank	656kg	1400×880×1070
XQM-60	60L	Production model	10-15L	4	Can be equipped with 10L vacuum ball mill tank	950kg	1600×1070×1250
XQM-80	80L	Production model	15-20L	4	Can be equipped with 15L vacuum ball mill tank	1300kg	1750×1140×1330
XQM-100	100L	Production model	20-25L	4	Can be equipped with 20L vacuum ball mill tank	1300kg	1800×1150×1140
XQM-200	200L	Production model	50L	4	Can be equipped with 25L vacuum ball mill tank	2725kg	2670×1600×2804

Performance parameter table

model	Device power supply	Power connector	Motor power (kW)	Speed regulation method	Run settings Total time(min)	Alternate positive and negative Running time(min)	Planetary disk speed (rpm)	Grinding tank speed (rpm)	Speed ratio	noise (dB)
XQM-20	380V 50Hz	Three phases	4kW	touch screen	1-9999	1-999	0-215	0-430	1:2	65±5
XQM-40	380V 50Hz	Three phases	5.5kW	touch screen	1-9999	1-999	0-195	0-390	1:2	68±5
XQM-60	380V 50Hz	Three phases	7.5kW	touch screen	1-9999	1-999	0-174	0-260	1:1.5	68±5
XQM-80	380V 50Hz	Three phases	11kW	touch screen	1-9999	1-999	0-151	0-242	1:1.5	68±5
XQM-100	380V 50Hz	Three phases	11kW	touch screen	1-9999	1-999	0-151	0-242	1:1.5	68±5
XQM-200	380V 50Hz	Three phases	22kW	touch screen	1-9999	1-999	0-143	0-215	1:1.5	68±5

The equipment shell adopts the welding and forming process of thickened steel plate, which has high strength, impact resistance and deformation resistance, fine workmanship, strong and beautiful appearance.; The materials of the machined parts undergo strict heat treatment procedures and adopt CNC machining technology. The gear box adopts a quasi-sealed groove embedded structure, and the transmission gear adopts wear-resistant precision gears. The design of the frame and structural parts fully considers resonance factors to ensure stable, safe and reliable operation of the equipment under long-term high load conditions, and effectively achieves the noise reduction effect of machine operation. ; The liquid oil self-lubricating device is designed with low noise and high strength, and is equipped with a liquid oil level gauge for easy replacement. The supporting hoisting and dumping devices adopt an integrated design. The dumping device is integrated into the vibrating screening and discharging technology. It is simple to operate, enabling

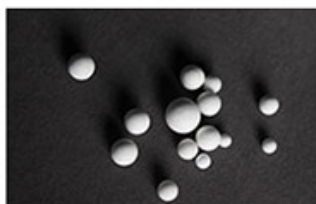
easy and fast canning, unloading, and filling, reducing labor intensity and improving production efficiency. It adopts a microcomputer touch screen, which is easy to operate and has a simple and intuitive interface. It can realize alternating control of forward and reverse rotation, and has timing and power-off memory functions.

研磨系列

行星球磨机/配件介绍



不锈钢球



氧化铝球



氧化锆球



玛瑙球



聚氨酯球



硬质合金球

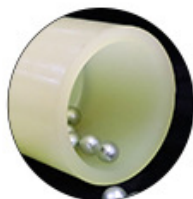
我们还可以提供各种磨球:不锈钢球、氧化锆球、氧化铝球、PU球、钢碳球、钨球、玛瑙球、硬质合金球、氮化硅球、高耐磨钢球, 锰钢球、尼龙球、硬质合金、玻璃和其他特种金属材料。



不锈钢研磨罐



刚玉研磨罐



聚氨酯研磨罐



聚四氟研磨罐



玛瑙研磨罐



尼龙研磨罐



氧化锆研磨罐



硬质合金研磨罐

我们还可以提供各种材质球磨罐：玛瑙、氧化铝刚玉陶瓷、氧化锆陶瓷、氮化硅陶瓷、碳化硅陶瓷、不锈钢、耐磨钢、锰钢、尼龙、聚氨酯、硬质合金、水晶玻璃等。

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Before operation, review the selected model's instructions and the material requirements.