



Technical resources

Dual Planetary Ball Mill

Model: SXQM

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

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Model: SXQM

Dual planetary ball mill with enhanced centrifugal force for nano-scale grinding. Two-level planetary motion boosts collision and shear, improving efficiency for lab and industrial applications.

Technical specifications

Grinding jar specification	50ml~1500ml
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 double planetary structure enables the large planetary disk to drive the movement of the asteroid disk. Compared with ordinary planetary ball mills of the same specifications, the revolution radius and grinding tank rotation speed are enlarged. The centrifugal force on the grinding balls is doubled, and the collision, shearing and friction between the grinding balls are significantly increased. The grinding effect and grinding efficiency are improved, and some materials can be ground to the nanometer level. Double planetary ball mill is a typical high-efficiency and high-energy ball mill.

功能介绍

精益求精-所以专业

双行星机构

双行星结构实现大行星盘带动小行星盘运动，磨球间碰撞、剪切、摩擦力显著增大，提升研磨效果和研磨效率



可视窗口

便于观察行星机构运行情况，钢化玻璃，安全可靠。



变频控制

可根据实验理想转速，转速精度高，变频器具有欠压和过流保护，可以对电机进行一些必要的保护。



散热风扇口

高速运转，有效增强机体气流流动速度，散热速度提高，保证机器有效长久的稳定运行。



Double planetary ball mill is a powder device for laboratory, mixing, fine grinding and small batch production of high-tech materials. 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. Widely used in electronics, magnetism, medicine, ceramics, geology, minerals, metallurgy, building materials, chemical industry, light industry, beauty, environmental protection and other industries.

Technical parameters

model	Specification	Can be equipped with ball mill tank specifications		quantity	Remark		
SXQM-0.4	0.4L	50-100ml		4	Can be equipped with 50ml vacuum ball mill tank		
SXQM-1	1L	250ml		4	Can be equipped with 50-100ml vacuum ball mill tank		
SXQM-2	2L	500ml		4	Can be equipped with 50-250ml vacuum ball mill tank		
SXQM-4	4L	1000ml		4	Can be equipped with 50-1000ml vacuum ball mill tank		
SXQM-6	6L	1500ml		4	Can be equipped with 50-1000ml vacuum ball mill tank		
model	Device power supply	Motor power (kW)	Total running time (min)	Alternating forward and reverse running time (min)	Revolution (rpm)	Rotation(rpm)	Noise(dB)
SXQM-0.4	220V-50Hz	0.75	1-9999	1-999	70-560	140-1120	58±5
SXQM-1	220V-50Hz	0.75	1-9999	1-999	70-560	140-1120	60±5
SXQM-2	220V-50Hz	0.75	1-9999	1-999	70-560	140-1120	60±5
SXQM-4	220V-50Hz	0.75	1-9999	1-999	70-560	140-1120	60±5
SXQM-6	220V-50Hz	0.75	1-9999	1-999	70-560	140-1120	60±5
model	Motor power (kW)	Speed regulation method			Equipment weight (kg)	Equipment volume (mm)	
SXQM-0.4	0.75	Frequency conversion speed regulation			250	1150×800×760	

SXQM-1	0.75	Frequency conversion speed regulation	250	1150×800×760
SXQM-2	0.75	Frequency conversion speed regulation	250	1150×800×760
SXQM-4	0.75	Frequency conversion speed regulation	250	1150×800×760
SXQM-6	0.75	Frequency conversion speed regulation	250	1150×800×760

The equipment shell has a professional appearance design and industrial shape, using thickened steel plate welding and forming processing technology. It has high strength, impact resistance, deformation resistance, and a stable atmosphere.; The materials of the machined parts undergo 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 low-noise operation of the equipment at high speeds.

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