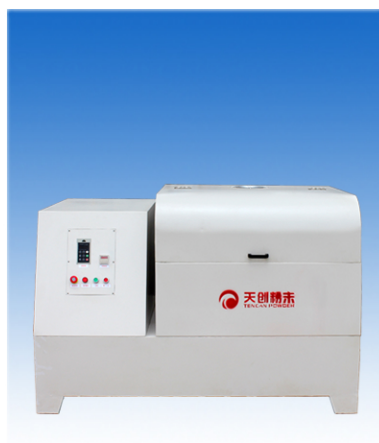




## Overview

Vertical Square Planetary Ball Mill (Production Model) is a necessary device of high-tech materials mixing, fine grinding, sample making, new product development and small batch production. Tencan planetary ball mill owns small volume, high efficiency, low noise and functional features which is a ideal equipment for R&D institution, university, enterprises laboratory to get samples (each experiment can get four samples at the same time). It gets powder samples under the vacuum state when equipped with vacuum ball mill tank.



Vertical Square Planetary Ball Mill  
(Production Model)



Vertical Square Planetary Ball Mill  
(Production Model)



Vertical Square Planetary Ball Mill  
(Production Model)

## Working Principle

Vertical Square Planetary Ball Mill (Production Model) has four ball grinding tanks installed on one turntable. When the turntable rotates, the tank axis makes planetary movements, the balls and samples inside the tanks are impacted strongly in high speed movement, and samples are eventually ground into powder. Various kinds of different materials can be ground by the mill with dry or wet method. Minimum granularity of ground powder can be as small as  $0.1\mu\text{m}$ .

## Applications

Vertical Square Planetary Ball Mill (Production Model) is widely used in many fields of geology, mine, metallurgy, electric industry, construction, ceramics, chemicals, light industry, medicine, environmental protection etc.



### Application Parameters

Drive Mode	Gear drive or belt drive
Working Mode	Two or four grinding jars working together
Max Load Volume (Material+Balls)	No more than 2/3 of mill jar volume
Feed Size	Soil & crispy materials ≤ 10mm, Other materials ≤ 3mm
Output Granularity	Minimum up to 0.1um (different materials and grinding process will be different)
Rotation Speed Ratio(Revolution/Rotation)	1:2
Max.Continuous Operating Time	72 Hours
Materials of Jar	stainless steel,agate,nylon,corundum, zirconia,etc

### Technical Parameter Table(II) of Vertical Square Planetary Ball Mill (Production Type)

Model No	Power (KW)	Voltage	Revolution Speed(rpm)	Rotation Speed(rpm)	Total Timing(min)	Alternating Run Time of Forward & Reversal Rotation(min)	Noise ≤ db
XQM-20	4	380V-50Hz	25-215	50-430	1-9999	1-999	65db
XQM-40	5.5	380V-50Hz	20-195	40-390	1-9999	1-999	68db
XQM-60	7.5	380V-50Hz	27-174	40-260	1-9999	1-999	68db
XQM-100	11	380V-50Hz	27-160	40-240	1-9999	1-999	68db

### Technical Parameter Table(III) of Vertical Square Planetary Ball Mill (Production Type)

Model No	Power (KW)	Speed Control Mode	Net Weight (kg)	Dimensions (MM)
XQM-20	4	Frequency Control	440	1200*760*920
XQM-40	5.5	Frequency Control	675	1400*850*1030
XQM-60	7.5	Frequency Control	875	1600*950*1120
XQM-100	11	Frequency Control	1100	1750*1100*1180

### Technical Parameter Table(I) of Vertical Square Planetary Ball Mill (Production Type)

Model No	Specifications	Volume of Each Matched Pot	Quantity	Remarks
XQM-20	20L	2-5L	4 pcs	Matched with vacuum mill pots from 2L to 4L
XQM-40	40L	5-10L	4 pcs	Can be Matched with 5L Vacuum mill Pot
XQM-60	60L	10-15L	4 pcs	Can be Matched with 10L Vacuum mill Pot
XQM-100	100L	20-25L	4 pcs	Can be Matched with 20L Vacuum mill Pot