



Overview

WXQM series planetary ball mill has four ball grinding tanks installed on one turntable. When the turntable rotates, the tank axis makes planetary movements and the balls in the tanks grinds and mixes samples in high speed movement. The product can smash and blend various products of different materials and granularity with dry or wet methods. Minimum granularity of grinded products can be as small as 0.1 micron (i.e.) $1.0 \times 10^{-4} \text{mm}$.



Large Horizontal Planetary Ball Mill



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Working Principle

WXQM series planetary ball mill 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. A variety 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

WXQM series planetary ball mill is the requisite equipment for mixing, fine grinding, small sample preparing, new product development and small volume high-tech material production. The product has small volume, complete function, high efficiency and low noise.



Technical Features of Horizontal Planetary Ball Mill

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

Parameters of Horizontal Planetary Ball Mill (Heavy 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
WXQM-(2-6)	1.5	220V-50Hz	35-335	70-670	1-9999	1-999	60±5
WXQM-8	1.5	220V-50Hz	35-290	70-580	1-9999	1-999	60±5
WXQM-10	1.5	220V-50Hz	35-290	70-580	1-9999	1-999	60±5
WXQM-12	1.5	220V-50Hz	35-290	70-580	1-9999	1-999	60±5
WXQM-16	3	380v-50HZ	30-240	60-480	1-9999	1-999	60±5
WXQM-20	4	380v-50HZ	25-215	50-430	1-9999	1-999	60±5
WXQM-40	5.5	380v-50HZ	25-215	50-430	1-9999	1-999	60±5
WXQM-60	7.5	380v-50HZ	20-206	50-310	1-9999	1-999	60±5
WXQM-100	11	380v-50HZ	35-193	50-290	1-9999	1-999	60±5

Measurement of Heavy Type Horizontal Planetary Ball Mill

Model No	Power (KW)	Speed Control Mode	Net Weight (kg)	Dimensions (MM)
WXQM-(2-6)	1.5	Frequency Control	256	1220x620x810
WXQM-8	1.5	Frequency Control	370	1320x670x920
WXQM-10	1.5	Frequency Control	370	1320x670x920
WXQM-12	1.5	Frequency Control	370	1320x670x920
WXQM-16	3	Frequency Control	440	1530X750X960
WXQM-20	4	Frequency Control	700	1620x840x1040
WXQM-40	5.5	Frequency Control	760	1770x860x1100
WXQM-60	7.5	Frequency Control	1020	1860x1050x1280
WXQM-100	11	Frequency Control	1160	2100x1150x1370

Available Sizes of Mill Jar for Horizontal Planetary Ball Mill (Heavy Type)

Model No	Specifications	Volume of Each Matched Pot	Quantity	Remarks
WXQM-(2-6)	2-6L	0.5-1.5L	4 pcs	Can be matched 0.5-1L vacuum mill jar
WXQM-8	8L	1-2L	4 pcs	Can be matched 0.5-1.5L vacuum mill jar
WXQM-10	10L	1-2.5L	4 pcs	Can be matched 1-2L vacuum mill jar
WXQM-12	12L	1-3L	4 pcs	Can be matched 1-2L vacuum mill jar
WXQM-16	16L	2-4L	4 pcs	Can be matched 1-3L vacuum mill jar
WXQM-20	20L	2-5L	4 pcs	Can be matched 2-4L vacuum mill jar
WXQM-40	40L	5-10L	4 pcs	Can be matched 3-5L vacuum mill jar
WXQM-60	60L	10-15L	4 pcs	Can be matched 5-10L vacuum mill jar
WXQM-100	100L	15-20L	4 pcs	Can be matched 10-15L vacuum mill jar