

Micro-computerized Touch Screen Planetary Ball Mill



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Overview

Micro-computer touch screen planetary ball mill composes of a normal planetary ball mill and the touch operation control system, which improves the equipment's operating performance. This machine mainly satisfies the customers with the better quality and operation performance. It is widely used in geology, mining, metallurgy, electronics, building materials, ceramics, chemicals, light industry, medicine, environmental protection and other departments.

Micro-computerized Control System

Powerful function, easy operation
and friendly man-machine interface.



Equipment Hardware

Equipped with famous brand
frequency convert and touch screen

Four jars grinding

Using new-designed pressure bar,
stable rotate speed and high efficiency,
finer granule.



Working Principle

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 ground products can be as small as 0.1 mm.



Feature

- Strong function of control system.
- Provided with many functions such as the setting of password, freely programming, multiprogram storage and transfer, process monitoring and failure warning.
- Visualized touching operation, simple and humanized design.

Application Cases of Planetary Ball Mill



Before grinding



After grinding

Material : Active carbon
 Material weight : 50g
 Mill Jar & Balls : Corundum mill jars and zirconia balls
 Grinding method : Dry grinding
 Rotation speed : 560rpm
 Applied equipment : Planetary ball mill Model No.XQM-0.4A
 Total volume : 1000mlx4=4000ml
 Grinding time : 2hours
 Granularity : 2µm



Before grinding



After grinding

Material : Kaolin
 Material weight : 500g
 Mill Jar & Balls : PTFE
 Grinding method : Dry grinding
 Rotation speed : 450rpm
 Total volume : 1Lx4=4L
 Spent time : 1hour 20 minutes
 Feed size : 2mm
 Granularity of output : 100µm



Material : Green tea (dry)
 Material weight : 0.25kg
 Mill Jar & Balls : Stainless steel
 Grinding method : Dry grinding
 Applied equipment : Planetary ball mill Model No.XQM-2
 Total volume : 0.5Lx4=2L
 Spent time : 1hour

Application Technical parameter

Drive Mode	Gear drive and belt drive
Operation Mode	Two or four grinding jars working together
Maximum Loading Capacity	2/3 of the capacity of milling jar
Feeding Size	Soil material≤10mm, other materials≤3mm
Output Granularity	Smallest granule reaches 0.1 µm
Rotational Speed Ratio	1:2
Max.Continuous Operating Time	72 Hours
Optional Modes of Speed Control	Frequency conveter and automatic timing control
Materials of Jar	Stainless steel, agate, nylon, corundum, zirconia, etc.

Technical Parameter Table









Main Parameters of Micro-computerized Planetary Ball mill								
Model No	Power (KW)	Voltage	Dimension (mm)	Revolution Speed (rpm)	Rotation Speed (rpm)	Noise <db	Total Timing (min)	Alternating Run Time of Forward & Reversal Rotation(min)
KMC-2	0.75	220V-60Hz	750*470*564	35-335	70-670	60db	1-9999	1-999
KMC-4	0.75	220V-60Hz	750*470*564	35-335	70-670	60db	1-9999	1-999
KMC-6	0.75	220V-60Hz	750*470*564	35-335	70-670	60db	1-9999	1-999
KMC-8	1.5	220V-60Hz	900*600*640	35-290	70-580	60db	1-9999	1-999
KMC-10	1.5	220V-60Hz	900*600*640	35-290	70-580	60db	1-9999	1-999
KMC-12	1.5	220V-60Hz	900*600*640	35-290	70-580	60db	1-9999	1-999
KMC-20	4	220V-60Hz	1200*750*920	25-215	50-430	60db	1-9999	1-999
KMC-40	5.5	220V-60Hz	1400*850*1160	20-195	40-390	60db	1-9999	1-999
KMC-60	7.5	220V-60Hz	1600*990*1250	27-174	40-260	60db	1-9999	1-999
KMC-100	11	220V-60Hz	1750*1140*1330	27-160	40-240	60db	1-9999	1-999

Measurement of Micro-computerized Planetary Ball Mill				
Model No	Motor (KW)	Control Mode	Net Weight(kg)	Dimensions(mm)
KMC-2	0.75	Frequency Contro	93	750*470*564
KMC-4	0.75	Frequency Contro	93	750*470*564
KMC-6	0.75	Frequency Contro	93	750*470*564
KMC-8	1.5	Frequency Contro	150	900*600*640
KMC-10	1.5	Frequency Contro	150	900*600*640
KMC-12	1.5	Frequency Contro	150	900*600*640
KMC-20	4	Frequency Contro	330	1200*750*920
KMC-40	5.5	Frequency Contro	468	1400*850*1160
KMC-60	7.5	Frequency Contro	900	1600*990*1250
KMC-100	11	Frequency Contro	1250	1750*1140*1330

Available Size of Mill Jar for Micro-computerized Planetary Ball Mill				
Model No	Specifications	Volume of each matched pot	Quantity	Remarks
KMC-2	2L	50-500ML	4 pcs	Can be matched with 50ml-250ML vacuum mill jar
KMC-4	4L	250-1000ML	4 pcs	Can be matched with 50ml-500ML vacuum mill jar
KMC-6	6L	1-1.5L	4 pcs	Can be matched with 50ml-1000ML vacuum mill jar
KMC-8	8L	1-2L	4 pcs	Can be matched with 50ml-1500ML vacuum mill jar
KMC-10	10L	1-2.5L	4 pcs	Can be matched with 1L-1.5L vacuum mill jar
KMC-12	12L	1-3L	4 pcs	Can be matched with 1L-2L vacuum mill jar
KMC-20	20L	2-5L	4 pcs	Can be matched with 2L-4L vacuum mill jar
KMC-40	40L	5-10L	4 pcs	Can be matched with 5L vacuum mill jar
KMC-60	60L	10-15L	4 pcs	Can be matched with 10L vacuum mill jar
KMC-100	100L	20-25L	4 pcs	Can be matched with 20L vacuum mill jar

Accessory

We provide all kinds of mill pots in any matched size, which are made from following materials of agate, Alumina corundum ceramics, zirconia ceramics, silicon nitride ceramics, carborundum ceramics, stainless steel, high wear resistant steel, manganese steel, nylon, PU, cemented carbide, crystal glass, and etc.

Material	Volume of Mill Jar	Diameter of Mill Ball	
Stainless Steel	50ml,100ml,250ml,500ml,1L,1.5L,2L,2.5L,3L,4L	1-30mm	
Stainless Steel (for vacuum)	50ml,100ml,250ml,500ml,1L,1.5L,2L,3L,4L,5L	1-30mm	
Zirconia	50ml,100ml,250ml,500ml,1L,1.5L,2L,3L,4L	1-30mm	
Alumina	50ml,100ml,250ml,500ml,1L,1.5L,2L,3L	1-50mm	
Tungsten Carbide	50ml,100ml,250ml,500ml,1L,1.5L	3-10mm	
Agate	50ml,100ml,150ml,250ml,300ml,400ml,500ml,1L,1.5L,2L	6-35mm	
Nylon	50ml,100ml,250ml,500ml,1L,1.5L,2L,2.5L,3L,4L	\	
PU	50ml,100ml,250ml,500ml,1L,1.5L,2L,2.5L,3L,4L	\	
PTFE	50ml,100ml,250ml,500ml,1L,1.5L,2L,2.5L,3L,4L	\	