KINTEK SOLUTION

Laboratory Ball Mill Catalog

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KINTEK SOLUTION

COMPANY PROFILE

>>> About Us

KinTek Group Limited is one technology orientated organization, team members are devoted to probing the most efficicent and reliable technology and innovations in the scienticfic researching equipment, fields like biochemical reacting, new materials researching, heat treatment, vaccum creating, refrigerating, as while as pharmaceutical and petroleum extracting equipment.

Mini Planetary Ball Mill

Item Number: KT-P400

Introduction

Discover the KT-P400 desktop planetary ball mill, ideal for grinding and mixing small samples in the lab. Enjoy stable performance, long service life, and practicality. Functions include timing and overload protection.

Learn More

Grinding principle	Impact & friction force
Suitable materials	Small and medium-low hardness; Brittle; Dry or wet
Materials input size	
Materials output size	0.1-20 um
Processing volume	
Grinding jar speed	0-900 r/min
Grinding jar material	Tungsten carbide; Ceramic; Agate; Stainless steel; Harden steel; Nylon, etc.
Number of grinding jar	4 pcs
Grinding jar volume	
Grinding ball material	Tungsten carbide; Zirconia; Alumina; Agate; Stainless steel, etc.
Motor power	250W
Net weight	35 kg
Dimensions	L500 * W300 * H350 mm
Protection level	IP65
Quality standards	CE

Rotating Planetary Ball Mill

Item Number: KT-P400E

Introduction

KT-P400E is a desktop multi-directional planetary ball mill with unique grinding and mixing capabilities. It offers continuous and intermittent operation, timing, and overload protection, making it ideal for various applications.

Learn More

Grinding principle	Impact & friction force
Suitable materials	Small and medium-low hardness; brittle; dry or wet
Materials input size	
Materials output size	0.1-20 um
Processing volume	
Grinding jar speed	0-900 r/min
Planetary disc speed	10 r/min
Grinding jar material	Tungsten carbide; Ceramic; Agate; Stainless steel; Harden steel; Nylon, etc.
Number of grinding jar	4 pcs
Grinding jar volume	100 ml
Grinding ball material	Tungsten carbide; Zirconia; Alumina; Agate; Stainless steel, etc.
Motor power	370W
Net weight	66 kg
Dimensions	L720 * W500 * H500 mm
Protection level	IP65
Quality standards	CE

Horizontal Planetary Ball Mill

Item Number: KT-P400H

Introduction

Improve sample uniformity with our Horizontal Planetary Ball Mills. KT-P400H reduces sample deposition and KT-P400E has multi-directional capabilities. Safe, convenient and efficient with overload protection.

Learn More

Grinding principle	Impact & friction force
Suitable materials	Small and medium-low hardness; brittle; dry or wet
Materials input size	
Materials output size	0.1-20 um
Processing volume	
Grinding jar speed	0-900 r/min
Grinding jar material	Tungsten carbide; Ceramic; Agate; Stainless steel; Harden steel; Nylon, etc.
Number of grinding jar	4 pcs
Grinding jar volume	100 ml
Grinding ball material	Tungsten carbide; Zirconia; Alumina; Agate; Stainless steel, etc.
Motor power	250W
Net weight	35 kg
Dimensions	L320 * W410 * H510 mm
Protection level	IP65
Quality standards	CE

High-Energy Omnidirectional Planetary Ball Mill

Item Number: KT-P2000E

Introduction

The KT-P2000E is a new product derived from the vertical high-energy planetary ball mill with a 360°rotation function. The product not only has the characteristics of the vertical high-energy ball mill, but also has a unique 360°rotation function for the planetary body.

Learn More

Grinding principle	Impact & friction force
Suitable materials	Small and medium-low hardness; brittle; dry or wet
Materials input size	< 10 mm
Materials output size	0.1-20 um
Processing volume	2000ml
Disc panspeed	800 r/min
Grinding panmaterial	Tungsten carbide;Ceramic; Agate; Stainless steel; Harden steel; Nylon, etc.
Planetary disk space movement mode	X | Y axis 360° change planetary motion
Motor power	100-120V/200-240V AC ,50-60Hz,870W
Net weight	233kg
Dimensions	L1120*W685*H780 mm
Protection level	IP65
Quality standards	CE

High Energy Planetary Ball Mill (Horizontal Tank Type)

Item Number: KT-P2000H

Introduction

The KT-P2000H uses a unique Y-axis planetary trajectory, and utilizes the collision, friction and gravity between the sample and the grinding ball.

Learn More

Grinding principle	Impact | Friction | Gravity
Suitable materials	Small and medium-low hardness; brittle; dry or wet
Materials input size	< 10 mm
Materials output size	0.1-20 um
Processing volume	2000ml
Disc panspeed	800 r/min
Grinding panmaterial	Tungsten carbide;Ceramic; Agate; Stainless steel; Harden steel; Nylon, etc.
Planetary disk space movement mode	Y-axis planetary movement
Motor power	100-120V/200-240V AC ,50-60Hz,750W
Net weight	106kg
Dimensions	L720*W560*H510 mm
Protection level	IP65
Quality standards	CE

Cabinet Planetary Ball Mill

Item Number: KT-CPBM

Introduction

The vertical cabinet structure combined with ergonomic design enables users to obtain the best comfortable experience in standing operation. The maximum processing capacity is 2000ml, and the speed is 1200 revolutions per minute.

Learn More

Grinding principle	Impact & friction force
Suitable materials	Small and medium-low hardness; brittle; dry or wet
Materials input size	< 20 mm
Materials output size	0.1-20 um
Processing volume	2000ml
Disc panspeed	1`200 r/min
Grinding panmaterial	Tungsten carbide;Ceramic; Agate; Stainless steel; Harden steel; Nylon, etc.
Planetary disk space movement mode	X axis planetary movement
Motor power	220V/380V AC ,50-60Hz,1500W
Net weight	326kg
Dimensions	L780*W700*H1220 mm
Protection level	IP65
Quality standards	CE

High Energy Planetary Ball Mill

Item Number: KT-P4000

Introduction

The biggest feature is that the high energy planetary ball mill can not only perform fast and effective grinding, but also has good crushing ability

Learn More

Grinding principle	Impact & friction force
Suitable materials	Small and medium-low hardness; brittle; dry or wet
Materials input size	< 10 mm
Materials output size	0.1-20 um
Processing volume	4000ml
Disc panspeed	800 r/min
Grinding panmaterial	Tungsten carbide;Ceramic; Agate; Stainless steel; Harden steel; Nylon, etc.
Planetary disk space movement mode	X axis planetary movement
Motor power	100-120V/200-240V AC ,50-60Hz,750W
Net weight	106kg
Dimensions	L720*W500*H500 mm
Protection level	IP65
Quality standards	CE

High-Energy Omnidirectional Planetary Ball Mill

Item Number: KT-P4000E

Introduction

The KT-P4000E is a new product derived from the vertical high-energy planetary ball mill with a 360° swivel function. Experience faster, uniform, and smaller sample output results with 4 ≤1000ml ball mill jars.

Learn More

Grinding principle	Impact | Friction | Gravity
Suitable materials	Small and medium-low hardness; brittle; dry or wet
Materials input size	< 10 mm
Materials output size	0.1-20 um
Processing volume	4000ml
Disc panspeed	800 r/min
Grinding panmaterial	Tungsten carbide;Ceramic; Agate; Stainless steel; Harden steel; Nylon, etc.
Planetary disk space movement mode	X | Y axis 360° change planetary motion
Motor power	100-120V/200-240V AC ,50-60Hz,870W
Net weight	242kg
Dimensions	L1120*W685*H780 mm
Protection level	IP65
Quality standards	CE

High Energy Planetary Ball Mill (Horizontal Tank Type)

Item Number: KT-P4000H

Introduction

KT-P4000H uses the unique Y-axis planetary motion trajectory, and utilizes the collision, friction and gravity between the sample and the grinding ball to have a certain anti-sinking ability, which can obtain better grinding or mixing effects and further improve the sample output.

Learn More

Grinding principle	Impact | Friction | Gravity
Suitable materials	Small and medium-low hardness; brittle; dry or wet
Materials input size	< 10 mm
Materials output size	0.1-20 um
Processing volume	4000ml
Disc panspeed	800 r/min
Grinding panmaterial	Tungsten carbide;Ceramic; Agate; Stainless steel; Harden steel; Nylon, etc.
Planetary disk space movement mode	Y-axis planetary movement
Motor power	100-120V/200-240V AC ,50-60Hz,750W
Net weight	115kg
Dimensions	L720*W560*H510 mm
Protection level	IP65
Quality standards	CE

High Energy Vibratory Ball Mill (Single Tank Type)

Item Number: KT-VB100

Introduction

High-energy vibration ball mill is a small desktop laboratory grinding instrument.It can be ball-milled or mixed with different particle sizes and materials by dry and wet methods.

Learn More

Maximum injection size	< 1 mm
Sample particle size range	0.1-20um
Maximum processing volume	80ml
Sample minimum throughput	1g
Ball milling tank speed	1700r/min
Movement mode of ball mill jar	High-frequency three-dimensional motion
Ball mill material	Tungsten carbide | Zirconia | Stainless steel optional
Number of ball mill jars	1
Ball mill tank volume	25ml / 50ml / 80ml optional
Grinding ball material	Tungsten carbide | Zirconia | Stainless steel optional
Grinding method	Dry Grinding | Wet Grinding | Vacuum Grinding
Electrical description	220V AC, 50-60Hz, 250W
Power port	National Standard | European Standard | American Standard | British Standard, etc.
Net weight	35kg
Dimensions (L*W*H)	430*318*268mm
Protection class	IP65
Standard:	CE

High Energy Vibratory Ball Mill (Double Tank Type)

Item Number: KT-VB200

Introduction

High-energy vibration ball mill is a small desktop laboratory grinding instrument. It uses 1700r/min high-frequency three-dimensional vibration to make the sample achieve the result of grinding or mixing.

Learn More

Maximum injection size	< 1 mm
Sample particle size range	0.1-20um
Maximum processing volume	160ml
Sample minimum throughput	1g
Ball milling tank speed	1700r/min
Movement mode of ball mill jar	High-frequency three-dimensional motion
Ball mill material	Tungsten carbide | Zirconia | Stainless steel optional
Number of ball mill jars	2
Ball mill tank volume	25ml / 50ml / 80ml optional
Grinding ball material	Tungsten carbide | Zirconia | Stainless steel optional
Grinding method	Dry Grinding | Wet Grinding | Vacuum Grinding
Electrical description	220V AC, 50-60Hz, 500W
Power port	National Standard | European Standard | American Standard | British Standard, etc.
Net weight	68kg
Dimensions (L*W*H)	620*320*268mm
Protection class	IP65
Standard:	CE

Hybrid High Energy Vibratory Ball Mill

Item Number: KT-BM400

Introduction

KT-BM400 is used for rapid grinding or mixing of dry, wet and frozen small amount of samples in the laboratory. It can be configured with two 50ml ball mill jars

Learn More

Recommended maximum injection size	< 8 mm
Sample particle size range	~ 5um
Grinding method	Dry Grinding | Wet Grinding | Cryogenic Grinding
Grinding platform (number of cans)	2
Movement method	plane arc reciprocating motion
Vibration frequency	180-1800 r/min
Control method	LCD display
Time setting	59:59:59 (h/m/s)
Ball mill material	Tungsten carbide | zirconia | stainless steel | MC nylon|PTFE, etc.
Ball mill tank volume	50ml | 30ml
The sealing method of the ball mill jar	Sealing ring + screw fastening
Grinding ball size	1-25m optional
Grinding ball material	Tungsten carbide | Zirconium oxide | Agate | Stainless steel
Cell breaking adapter volume	10x0.2ml | 5x2ml | 5x5ml
Electrical description	100-120V/200-240V AC, 50-60Hz, 150W
Power port	National Standard | European Standard | American Standard | British Standard etc.
Net weight	48kg
Dimensions (LWH)	470*360*250
Protection class	IP63
Standard	CE

High Energy Vibratory Ball Mill

Item Number: KT-BM500

Introduction

The high-energy vibrating ball mill is a high-energy oscillating and impacting multifunctional laboratory ball mill. The table-top type is easy to operate, small in size, comfortable and safe.

Learn More

product name	Hybrid High Energy Vibratory Ball Mill	Hybrid High Energy Vibratory Ball Mill Low Temperature Type	High energy vibratory ball mill multi-platform
Model	KT-BM500	KT-BM500-L	KT-BM500-P
Recommended maximum injection size			
Sample particle size range	~0.1um		
Grinding method	Dry grinding | Wet grinding | Vacuum grinding	Dry grinding | Wet grinding | Vacuum grinding | Cryogenic grinding	Dry grinding | Wet grinding | Vacuum grinding
Grinding platform (number of cans)	2		6
Movement method	Y-plane arc-shaped high-frequency reciprocating motion		
Vibration frequency	180-1800 r/min		
Classic Smash Time	10-60s		
Ball mill material	Tungsten carbide | Zirconium oxide | PTFE | Nylon | Hard steel | Stainless steel	Stainless Steel | Tungsten Carbide | Zirconia	
The maximum volume of the ball mill tank	2X125ml		6X125ml
Fixing method of ball mill jar	screw fastening		
Grinding ball size	1-30mm optional		
Grinding ball material	Tungsten carbide | Zirconium oxide | Agate | Stainless steel		
Control method	Frequency Control		
Electrical description	100-120V | 200-240V AC, 50-60Hz, 750W		
Power port	National Standard | European Standard | American Standard | British Standard etc.		
Net weight	126kg		
Dimensions (width, depth and height)	680*540*320		
Protection class	IP30		
Standard	CE		

High Energy Planetary Ball Mill

Item Number: KT-P2000

Introduction

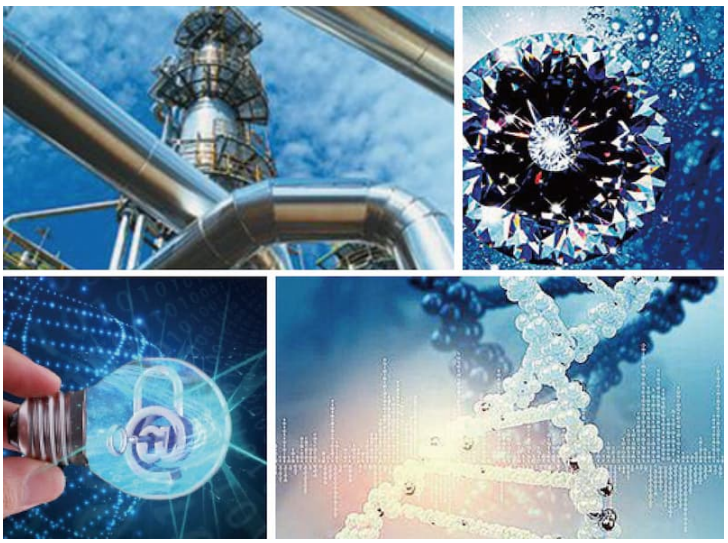
Experience fast and effective sample processing with the F-P2000 high-energy planetary ball mill. This versatile equipment offers precise control and excellent grinding capabilities. Perfect for laboratories, it features multiple grinding bowls for simultaneous testing and high output. Achieve optimal results with its ergonomic design, compact structure, and advanced features. Ideal for a wide range of materials, it ensures consistent particle size reduction and low maintenance.

Learn More

Product name	High energy planetary ball mill
Model	F-P2000
Processing principle	impact force friction
Application sample characteristics	fine | medium to low hardness | brittle | dry or low viscosity
Processing type	crush|grind|mix
Maximum injection size	10mm
Sample particle size range	0.1-20um
Maximum processing volume	2000ml
Maximum speed of ball mill tank	800r/min
Transmission mode	European standard
Space movement mode	X-axis planetary motion
Function	Continuous and intermittent operation | Emergency stop | Timing | Power outage memory | Overload and hazardous operation protection
Additional features	LED Lighting|Heat Dissipation
Ball mill tank material	Tungsten carbide zirconia | agate | stainless steel | MC nylon and other optional
Number of ball mill tanks	4□
Ball mill tank volume	500ml
Grinding ball material	Tungsten carbide | zirconia | agate | stainless steel, etc. optional
Grinding method	Dry grinding|Wet grinding
Electrical Description	100-120V/200-240VAC,50-60Hz,750W
Power port	National Standard | European Standard | American Standard | British Standard, etc.

Net weight	92kg
Dimensions (length, width and height)	570*570*420mm
Protection level	IP650
Standard	CE
Additional configurations available	Ultra-low temperature liquid nitrogen cooling touch operating system

Main accessories	Recommended standard configuration volume: 500ml	√: means it can be configured		×: indicates that it cannot be matched	
Ball mill tank	Material:	Type	100ml	250ml	500ml
	Tungsten carbide	Classic	√	√	√
		Vacuum type	√	√	×
	Zirconia	Classic	√	√	√
		Vacuum type	√	√	×
	Agate	Classic	√	√	√
		Vacuum type	√	√	×
	MC nylon	Classic	√	√	√
		Vacuum type	√	√	
	Stainless steel	Classic	√	√	√
		Vacuum type	√	√	√
	Polyurethane	Classic	√	√	√
		Vacuum type	√	√	×
	PTFE	Classic	√	√	√
		Vacuum type	√	√	×
	Corundum	Classic	√	√	√
		Vacuum type	√	√	×
Grinding ball	Diameter(mm)	Material			
	3/5/10/15/20	Tungsten carbide | Zirconia | Agate | Stainless steel | Corundum			



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