

## Ball Mill

### Optional:

Selection of pot's material: Pot's material has no pollution to the grinding materials and no effect to the appearance of powder.

### Technical Parameters:

Category & Request of Grinding Material	Reference for Mill Pots' Material Option
Soil and other Materials which impurities are not allowed to be brought.	Agate Pot
Metal and non-metal materials which impurities are not allowed to be brought.	Zirconia Pot
High hardness materials like diamond, hard alloy.	Hard Alloy Pot
Strong acid and strong alkali substances, and materials under high temperature.	PTFE Mill Pot
Iron and steel minerals, impurities are not highly sensitive materials.	304 Stainless Steel Mill Pot
Pigment material, and materials which can be processed at high temperature.	Nylon Mill Pot
Containing aluminum material like ceramic glaze.	Corundum Pot
Electronic material like lithium battery.	Polyurethane Mill Pot
Easily oxidized materials which need to be protected by special gas.	Vacuum Mill Pot



Nylon Mill Pot



PTFE Mill Pot



Zirconia Pot



Hard Alloy Pot



Polyurethane Mill Pot



Stainless Steel Mill Pot

### Matching Ways for Mill Pots and Balls:

	Agate Grinding Ball	Zirconia Grinding Balls	Tungsten Carbide Balls	Stainless Steel Balls	Alumina Balls	Polyurethane core ball	Steel Ball
Agate Mill Pot	▲						
Zirconia Mill Pot		▲					
Hard Alloy Mill Pot			▲				
PTFE Mill Pot	▲						
Stainless Steel Mill Pot				▲			
Nylon Mill Pot		▲					
Corundum Mill Pot					▲		
Polyurethane Mill Pot						▲	

Remarks: ▲ Best Match

Best Match Ratio: Large-sized Ball: 20%; Medium-sized Ball: 50%; Small-sized Ball: 30%.



Stainless steel mill pot can be matched with stainless steel ball



Zirconia mill pot can be matched with zirconia balls



Corundum mill pot can be matched with alumina balls



Hard Alloy mill pot can be matched with zirconia balls



Nylon mill pot can be matched with zirconia balls



PTFE mill pot can be matched with agate balls



Polyurethane mill pot can be matched with Agate balls



Tempered nylon mill pot can be matched with agate balls



Agate mill pot can be matched with agate balls

## Vertical Planetary Ball Mill(Semi-circle Type)

### Application:

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. 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 $\mu$ m.



### Features:

- \* 3D curve shape design.
- \* Special gear with low noise.



Visual Window



Planetary Mechanism



Frequency Converter Control



Hole of Cooling Fan

### Technical Parameters:

Model	BKBM-V0.4	BKBM-V2
Capacity	0.4L	2L
Volume of Each Capacity	50~100ml	50~500ml
Pot Quantity	4 pcs	
Running Time Range	1~9999min	
Reciprocal Running Time	1~999min	
Adjustable Speed Revolution	45~435rpm	35~335rpm
Rotation	90~870rpm	70~670rpm
Noise	≤58dB	≤60dB
Speed Control Mode	Frequency Control	
Transmission Mode	Gear Drive	
Working Mode	2 or 4 pots can be used each time	
Max Volume of Each Pot	2/3	
Feed Size	Soft and Crispy material<10mm, Other materials<3mm	
Out-put Granularity	Minimum Granularity can be reached to 0.1 $\mu$ m	
Adjusting Mode of Rotate Speed	Frequency converter with stepless speed regulation	
Consumption	0.25KW	0.75KW
Power Supply	AC110/220V±10%, 50/60Hz	
External Size(W*D*H)mm	530*300*340	730*430*550
Package Size(W*D*H)mm	595*360*485	820*530*720
Net Weight(kg)	26	74
Gross Weight(kg)	30	80

## Vertical Planetary Ball Mill(Square Type)



### Features:

- \* 3D curve shape design.
- \* Special gear with low noise.



Planetary Mechanism



Frequency Converter Control



Hole of Cooling Fan



Pneumatic Rod

### Technical Parameters:

Model	BKBM-V2S
Capacity	2L
Volume of Each Capacity	50~500ml
Pot Quantity	4pcs
Running Time Range	1~9999min
Reciprocal Running Time	1~999min
Adjustable Speed Revolution	35~335rpm
Rotation	70~670rpm
Noise	≤60dB
Speed Control Mode	Frequency Control
Transmission Mode	Gear Drive
Working Mode	2 or 4 pots can be used each time
Max Volume of Each Pot	2/3
Feed Size	Soft and Crispy material<10mm, Other materials<3mm
Out-put Granularity	Minimum Granularity can be reached to 0.1 $\mu$ m
Adjusting Mode of Rotate Speed	Frequency converter with stepless speed regulation
Consumption	0.75KW
Power Supply	AC110/220V±10%, 50/60Hz
External Size(W*D*H)mm	770*470*570
Package Size(W*D*H)mm	820*540*680
Net Weight(kg)	93
Gross Weight(kg)	98

## Light Horizontal Planetary Ball Mill



### Features:

- \* Horizontal structure of grinding pots.
- \* Special gear with low noise.



Planetary Mechanism



Frequency Converter Control



Hole of Cooling Fan



Pneumatic Rod

### Technical Parameters:

Model	BKBM-H2L
Capacity	2L
Volume of Each Capacity	50~500ml
Pot Quantity	4 pcs
Running Time Range	1~9999min
Reciprocal Running Time	1~999min
Adjustable Speed Revolution	35~335rpm
Rotation	70~670rpm
Noise	≤60dB
Transmission Mode	Gear Drive
Working Mode	2 or 4 pots can be used each time
Max Volume of Each Pot	2/3
Feed Size	Soft and Crispy material<10mm, Other materials<3mm
Out-put Granularity	Minimum Granularity can be reached to 0.1µm
Adjusting Mode of Rotate Speed	Frequency converter with stepless speed regulation
Speed Control Mode	Frequency Control
Consumption	0.75KW
Power Supply	AC110/220V±10%, 50/60Hz
External Size(W*D*H)mm	700*570*520
Package Size(W*D*H)mm	800*610*670
Net Weight(kg)	105
Gross Weight(kg)	123

Functions List	BKN-984	BKN-110F	BKN-986
Variable Steam Generator	•	•	•
Cooling Water Pressure Monitor	•	•	•
Cooling Water Temperature Monitor	•	•	•
Automatic Alkali Solution Adding	•	•	•
Automatic Dilute Water	•	•	•
Auto Receiver Solution Adding	•	•	•
Tube Emptying		•	
Removable Drain Tray	•	•	•
Safety Door	•	•	•
Tube on Position Sensor	•	•	
Tube Replacement Sensor	•	•	
Colorimetric Titration Device		•	•
Results Calculation		•	•
Result and Data Storing		•	•
Built-in Printer		•	•
Trouble Shooting Self-detecting Functions	•	•	•
Titration While Distillation		•	

## Kjeldahl Digestion Furnace



### Technical Parameters:

Model	BKD-20F
Temp.Range	RT+5~450℃
Temp.Accuracy	±1℃
Heating Method	Infrared heating and high-purity graphite conduction
Heating Insulation Method	Ceramic fiber and unique air duct insulation
Digestion Tube Capacity	300ml
Capacity/Batch	20 pcs/batch
Consumption	3600W
Power Supply	AC110/220V±10%,50/60Hz
Packing Size(W*D*H)	650*540*470mm
Gross Weight	33kg



## Muffle Furnace



### Features:

- \* External material: cold-rolled steel with anti-bacterial powder coating and internal material: imported high density ceramic fiber. All stainless steel glory hole, make sure the color not change.
- \* Dual ceramic inner chamber and hollow heat insulation ensure that the temperature can go up quickly. Heating rate is about 60°C/min.
- \* Automatic parallel pressure door technology ensures the inner chamber temperature evenness and without leakage under the high temperature.
- \* PID micro digital screen controller, fixing temperature, over-temperature alarming and auto-stop.
- \* Safety protection measures: thermocouple failure, cut off power automatically when open the door and over temperature protection to avoid accidents occurring.
- \* Double-shell hollow thermal insulation, the shell not hot and the furnace internal cool quickly.

### Technical Parameters:

Model	MC2.5-12	MC5-12	MC10-12
Max Temp.	1200°C		
Temp. Rising Time (Empty/min)	20		
Temp. Accuracy	±1°C		
Capacity(L)	2	7.2	16
Consumption(KW)	2.5	5	6
Power Supply	110/220V±10%, 50/60Hz	220V±10%, 50/60Hz	220/380V±10%, 50/60Hz
Internal Size(W*D*H)mm	200*120*80	300*200*120	400*250*160
External Size(W*D*H)mm	620*412*570	720*522*650	820*584*700
Package Size(W*D*H)mm	700*500*700	810*650*760	900*710*810
Gross Weight(kg)	45	60	98

## Muffle Furnace

### Features:

- \* Program controlling temperature for TP series.
- \* Heating wire is set in four sides of the furnace, anti-corrosion, prevent contamination.
- \* Special insulation design, low shell temperature.
- \* SCR control, PID parameter self-setting;
- \* Low energy consumption.
- \* Multiple safety protection design:
  - Over-temperature alarm;
  - Power off when over-temperature/over-load.
- Manual or automatic switch without interference;
- Built-in parameter password control function.



### Technical Parameters:

Model	MX6-10T/TP	MX8-10T/TP	MX16-10T/TP	MX30-10T/TP	MX6-12T/TP	MX8-12T/TP	MX30-12T/TP
Max. Temp.(°C)	1000						1200
Capacity(L)	6	8	16	30	6	8	30
Temp. Accuracy	±1°C						
Consumption(KW)	2.8	3.5	6	10	2.8	3.5	10
Power Supply	220/380V±10%, 50/60HZ						
Heating Rate	0-30°C/min						
Rising Time(Empty)	30 minutes						
Temp. Uniformity	±6°C						
Material	External material: Cold rolled steel carbon steel spraying Internal material: Ceramic inner chamber						
Heating Element	Nickel chromium alloy wire						
Temp. Control	Intelligent temperature controller						
Optional Accessory Functions	Observation hole; Exhaust chimney; Furnace bottom plate Automatically power off once the door is opened; 30 programmable periods						
Internal Size(W*D*H)mm	180*230*150	200*300*120	250*400*180	300*500*200	180*230*150	200*300*120	300*500*200
External Size(W*D*H)mm	480*500*660	500*580*660	550*690*700	770*820*580	480*500*660	500*580*660	770*820*580
Package Size(W*D*H)mm	610*660*870	610*800*870	660*910*870	870*1110*800	610*660*870	610*800*870	870*1110*800
Gross Weight(kg)	65	75	80	85	65	75	85

Model	MX8-13T/TP	MX10-13T/TP	MX6-16TP	MX11-16TP	MX6-17TP	MX11-17TP
Max. Temp.(°C)	1300		1600		1700	
Capacity(L)	8	10	6	11	6	11
Temp. Accuracy	±1°C					
Consumption(KW)	4		6	8	6	8
Power Supply	220/380V±10%, 50/60HZ					
Heating Rate	0-30°C/min					
Rising Time(Empty)	30 minutes					
Temp. Uniformity	±6°C					
Material	External material: Cold rolled steel carbon steel spraying Internal material: Ceramic inner chamber					
Heating Element	Nickel chromium alloy wire					
Temp. Control	Intelligent temperature controller					
Optional Accessory Functions	Observation hole; Exhaust chimney; Furnace bottom plate Automatically power off once the door is opened; 30 programmable periods					
Internal Size(W*D*H)mm	200*300*120	200*300*180	150*300*120	200*300*180	150*300*120	200*300*180
External Size(W*D*H)mm	630*650*730	600*640*850	650*750*1000	700*750*1200	650*750*1000	700*750*1200
Package Size(W*D*H)mm	710*910*920	770*860*990	800*900*1150	850*900*1350	800*900*1150	850*900*1350
Gross Weight(kg)	70	75	180	220	180	220

## Flash Point Tester

### Open-Cup Flash Point Tester

#### Application:

It is applicable to all petroleum products with flash points above 79°C and below 400°C except fuel oils.



BK-FP3536



BK-FP3536A

#### Features:

- \* BK-FP3536A Automatic Open-Cup Flash Point Tester.
- \* It adopts special heating furnace to ensure the safety of test.
- \* The instrument adopts desktop structure. Easy to operate.
- \* Automatically open the lid, detect the flash point and print test data. The test arm automatically rise up and lower down.
- \* Stainless steel working table and furnace.
- \* LCD screen to display.

#### Technical Parameters:

Model	BK-FP3536	BK-FP3536A
Thermometer	-6°C~400°C. It is the same as thermometer ASTM 11C	
Ambient Temperature	-10°C~50°C	10°C~40°C
Relative Humidity	≤85%	
Consumption	650W	400W
Test Flame Applicator	It applies the test flame automatically.	
Heating Device	Quartz tube furnace heating, no naked fire, explosion prevented. The power is adjustable from 0W to 600W.	
Lgning Device	(1) Ignition source: coal gas(or civil gas) (2) Flame diameter is 3.2mm~4.8mm	Electric ignition. Gas flame diameter is 3.2mm~4.8mm
Flash Point Determination	Range: Ambient to 400°C, Repeatability: ≤8°C Reproducibility: ≤17°C, Accuracy: 0.1°C	
Power Supply	AC220V±10%, 50Hz	
Dimension(W*D*H)	350*290*350mm	410*360*310mm
Package Size(W*D*H)	520*440*340mm	600*510*600mm
Gross Weight	12kg	25kg

### Closed-Cup Flash Point Tester

#### Application:

It is used to make determination of the closed cup flash point of the petroleum products.

#### Features:

- \* BK-FP261:
- \* The heating power is adjustable and shown visually by voltmeter.
- \* The structure is designed small and exquisite with stainless-steel table board.

#### BK-FP261A:

- \* Simulation tracking displays function curves of heating up and test time.
- \* Automatically calibrate the effect of atmospheric pressure to test the corrected value.
- \* Differential coefficient detection. Automatically correct the system deviation.
- \* Automatically open the lid, detect the flash point and print test data.
- \* The test arm rises up and lowers down automatically.
- \* Igniting with electric igniting gun, forced air cooling.



BK-FP261



BK-FP261A

#### Technical Parameters:

Model	BK-FP261	BK-FP261A
Ambient Temperature	≤35°C	≤40°C
Relative Humidity	≤85%	≤80%
Flash Point Determination	Mercury-in-glass thermometer. Specifications are as below: Scale -5°C~110°C, division 0.5°C Scale 20°C~150°C, division 1°C Scale 90°C~370°C, division 2°C	Range: Ambient to 300°C Repeatability: ≤3°C Reproducibility: ≤4°C Accuracy: 0.1°C
Oil Cup	Inner diameter: 50.7mm~50.8mm. Depth: 55.7mm~56.0mm The scribed line depth of capacity of testing oil: 33.9mm~34.3mm. Capacity of testing oil: about 70ml	
Stirring Rate	Procedure A: (90~120)RPM, Procedure B: (250±10)RPM	
Igniting Device	Igniting source: gas(or other civilian fuels, the same below) Electric ignition. Gas flame diameter: 3.2mm~4.8mm	
Heating Device	The heating power is continuously adjustable from 0 W to 600W.	
Heating Rate	(1~12)°C/min: Controllable and adjustable	Procedure A: (5~6)°C/min, Procedure B: (1~1.6)°C/min
Consumption	650W	500W
Power Supply	AC220V±10%, 50Hz	
Dimension(W*D*H)	340*320*450mm	520*360*310mm
Package Size(W*D*H)	470*400*410mm	600*510*600mm
Gross Weight	12.5kg	25kg