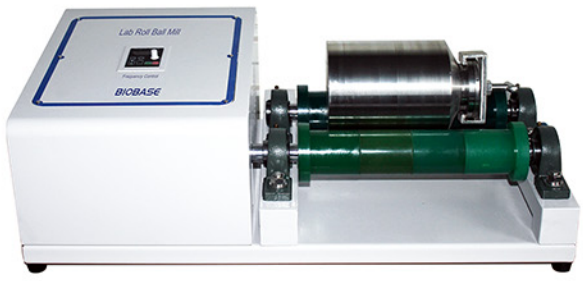
BIOBASE®

Laboratory Roller Ball Mill

Introduction:

When the laboratory roller ball mill is in operation, the grinding media and materials inside the cylinder are lifted to a certain height as the cylinder rotates. Due to gravity, they break away from the cylinder wall and fall along a parabolic path. The materials are pulverized under the impact of the grinding media and the friction and shearing effects generated by the rolling and sliding of the grinding media.



Application:

The laboratory roller ball mill is a superfine grinding and mixing equipment for laboratories and small-batch production. It has an elegant and novel appearance, a compact structure, and is easy to operate. It features high work efficiency and uniform fine particle size, making it a preferred device for scientific research, teaching, experiments, and production. It can be widely used in industries such as electronic materials, magnetic materials, biomedicine, ceramic slurries, non-metallic minerals, metal minerals, and new materials.

Features:

* The machine has a compact structure and is easy to operate.
* It features high work efficiency and uniform grinding particle size.
* By adjusting the moving roller, grinding jars with different outer diameters within a certain range can be used.
* Jar replacement is convenient, and both dry and wet grinding are uniform.

Technical Parameters:

Model		BKBM-5	BKBM-15
Capacity		0.5~5L	0.5~15L
Pot Quantity		1	1
Spindle Speed Range		60~570rpm±10	
Effective Length of Roller Shaft		260mm	340mm
Adjustable Distance Between Roller Shafts		120mm	140mm
Single Station Distance		260mm	340mm
Maximum Load per Tank		35kg	80kg
Maximum Roller Speed		570 rpm	
Optional Accessory	Ball Mill Tank	Roller stainless steel ball mill tank, roller corundum ball mill tank, roller nylon ball mill tank, roller polytetrafluoroethylene(ptfe) ball mill tank	
	Grinding Ball	Stainless steel balls, zirconia balls, alumina balls, PU balls, steel carbon balls, tungsten balls, agate balls, cemented carbide balls, silicon nitride balls, high wear-resistant steel balls, manganese steel balls, nylon balls, cemented carbide, glass and other special metal materials	
Consumption		0.4KW	0.75KW
Power Supply		AC220V, 50/60Hz(Standard); AC110V, 50/60Hz(Optional)	
External Size(W*H*D)		730*415*260mm	845*435*270mm
Package Size(W*H*D)		750*450*300mm	850*450*300mm
Net Weight		32kg	43kg
Gross Weight		45kg	60kg
Note: Both the pots and balls are optional. Their materials are selected according to the customer's materials and requirements.The loadable material is 1/3 of the volume capacity, multiply the volume of the loadable material by the bulk density of the material to get the weight of the loadable material.			