

The laboratory basket mill is a kind of multifunctional equipment for wet dispersing and grinding developed for scientific research institutions and enterprises and institutions. It mainly consists of a control box, a rotating shaft, a grinder, a pump lobe, a dispersion disk and a grinding basket filled with high-strength grinding media. This equipment can run for a long time with stable speed and low noise, and the two production processes of dispersion and grinding are completed at the same time, which can effectively reduce the fineness of low and medium viscosity materials in a short time.

Working Principle of Laboratory Basket Mill

When a laboratory basket mill is working, the self-priming impellers rotate at high speed, generating strong suction force and vortex, which will suck the materials into the grinding basket. The paddle drives the zirconium beads and the material to produce strong shear, collision and shear, which quickly makes the material particle size smaller and the fineness lower, thus achieving the effect of grinding fine material and dispersing the aggregates. At the same time, the ground materials are discharged from the milling basket under the strong thrust of the pump lobe, and then dispersed by the dispersion plate. Finally, the ideal grinding effect is obtained in a short time.



Laboratory Basket Mill Features

- Dispersing and grinding are integrated, and the two processes are completed by one process and one equipment.
- Precise mesh plate with 30% bigger over-flow area and 60% reduced resistance for better separation of beads and milled materials.
- Electric and manual lifting can be adopted according to user requirements, and the frame runs reliably and smoothly.
- No need for pump and pipeline.
- With use of dispersion plate and pump lobe, even high viscosity material also has good circulation.
- Excellent frequency conversion control, stepless speed adjustment can be realized.
- Pump lobe designed by fluid mechanics to ensure no dead space in the production process.
- Get the ideal effect in a short time
- Easy to clean and change milled material

Laboratory Basket Mill Applications

SeFluid's laboratory basket mill series is ideal for low and medium viscosity fluids below 5000cps and materials with high fineness requirement: such as interior wall emulsion paint, industrial paint, wood paint, all kinds of color paste, water-based oil-based ink, pesticide suspension agent, etc. It is widely used in ink, color paste, dyestuff, paint and other industries.

Technical Specifications

MODEL	POWER	SHAFT SPEED	BASKET VOLUME	CUP VOLUME	BEAD MATERIAL	BEAD SIZE	LIFT DISTANCE	LIFT METHOD
SLBM110	1.1kw	0-3000rpm	0.3L	Double Layer 5L	Zirconia	0.8-2.0mm	250mm	Manual or electric
SLBM150	1.5kw	0-3000rpm	0.5L	Double Layer 10L	Zirconia	0.8-2.0mm	350mm	Manual or electric
SLBM220	2.2kw	0-3000rpm	1L	Double Layer 20L	Zirconia	0.8-2.0mm	400mm	Manual or electric
SLBM400	4kw	0-3000rpm	1.5L	Double Layer 40L	Zirconia	0.8-2.0mm	500mm	Manual or electric