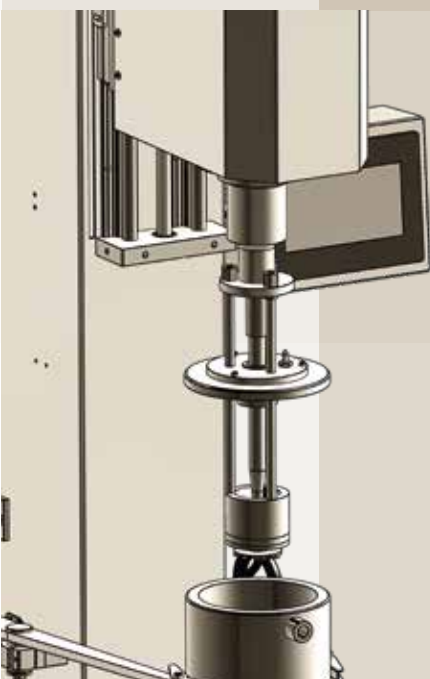




VBR SERIES

Laboratory Type
Dissolver/Basket Mill



VBR Series Dispersers are actually **Multi-Purpose** machinery, designed for all kinds of pre-mixing, ready mixing, dispersion / dissolving, homogenizing and milling processes for laboratory scale, within a wide viscosity range of products. The machine can be used as a laboratory scale **Dissolver, Basket Mill** and **Roto-Stator High Shear Mixer** with its interchangeable workheads.

- With its powerful motor, wide speed range, effective control system and rich hardware, VBR series are very efficient machines for the high speed dispersion, fine milling and homogenizing processes for small batch volumes at research laboratories.
- With its compact construction and basic energy requirement (220 V, 50Hz, monophase), it can be settled on a rigid table or working bench to start processing in minutes.
- Machine parameters are precisely optimized to obtain one-to-one simulations of the production processes achieved by production scale machinery.
- With easily changeable workheads, it is very easy to switch between different types of operations. All processes in production scale can be achieved in laboratory with one single machine.
- Machine operator can run the machine and observe / adjust the process parameters through a TFT-LCD touch panel on the machine body, by means of a sophisticated PLC control system.



Features

- Effective speed control with frequency converter.
- Electronic lifting of the motor group.
- All parts that interfere with the product, including the clamp arms and base plate, are manufactured from micro finish stainless steel for easy cleaning.
- Reliable clamp system which centers the vessel to the shaft axis after a single adjustment.
- Suitable to use with stainless steel double walled / water cooled "Sand-Cups".
- Temperature control system, process parameter controls and safety arrangement.
- Completely stainless steel Basket Mill workhead with internal cooling jacket and turbine type suction disc. Feasibility to use the machine with various types grinding media and to obtain a perfect simulation of a milling process when compared to a process type basket mill.
- Completely stainless steel Rotor Stator workhead with various types (Drilled, slotted, with sieve, etc.) according to the product to be processed.
- Option to use a standard VBR model as a Vacuum Dissolver, Vacuum Type Basket Mill and Vacuum Type Rotor Stator Mixer, by means of easily exchangeable vacuum workheads. Required vacuum is also provided by a safe, pneumatic vacuum pump.

VBR SERIES

Laboratory Type Dissolver/Basket Mill



MODEL	VBR-12	VBR-6000	VBR-6000 EX (EXD-Zone-1)	VBR-6000L
MOTOR POWER	0,75 KW	1,5 KW	1,1 KW	2,2 KW
SPEED RANGE	0-12000 d/d	0-6000 d/d	0-6000 d/d	0-6000 d/d
BATCH CAPACITY (DISSOLVER)	0,5-3 LT	1-15 LT	1-15 LT	3-21 LT
BATCH CAPACITY (BASKET MILL)	1-3 LT	1-10 LT	1-10 LT	3-21 LT
BATCH CAPACITY (ROTOR-STATOR MIXER)	1-3 LT	1-10 LT	1-10 LT	3-21 LT
DISPERSER DISCS	Ø30...Ø70 mm	Ø40...Ø130 mm	Ø40...Ø130 mm	Ø50...Ø150 mm
SANDCUP VOLUMES	0,5 - 3 LT	1-10 LT	1-10 LT	3-21 LT
DIMENSIONS / WEIGHT APPX.	300mm x 550mm x H:1000mm/60 KG	400mm x 600mm x H:1100mm/80 KG	400mm x 600mm x H:1100mm/80 KG	400mm x 600mm x H:1200mm/120 KG

Options

- Standard machine is delivered with Dissolver workhead and four sizes of disperser discs.
- Other workheads including vacuum types, vacuum devices and sandcups, which are mentioned in general features, are optional extra accessories.
- Complete Ex-Proof design for ATEX Zone 1 & 2 . (Exd Zone-1 excution model process controls are limited due to machine construction)



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