



HOMOGENIZER BHMS-111

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HIGH SHEAR HOMOGENIZER

The high shear homogenizer is applicable to various tasks from sample preparation to formulation study. The motor drives the rotor to rotate at high speed, and the sample is homogenized or dispersed by the gap between the rotor and stator, usually in a short period of time.



High quality 316L stainless steel with corrosion and autoclave resistance
Rotor with simple design can be dismantled, cleaned, and sterilized conveniently
6 speed levels
Applicable for sample with viscosity up to 10000 mPa·s
Replaceable rotors and stators sharing the same shaft, cost-effective
Automatic overload protection mechanism maximizes the working life of motor
Smooth motor start, stable acceleration without spillage risk

SPECIFICATIONS

Model	BHMS-111
Speed range	10000-30000rpm
Max linear velocity	22.7-36m/sec
Speed Level	6 stage
Working volume	10-40000mL
Max. viscosity	10000mPa·s
Material of dispersing shaft	SS 316L stainless steel, PTFE
Noise Level	79dB(A)
Protection class	IP20
Voltage, frequency	110-120V/60Hz, 220-240V/50-60Hz
Power	500W
Motor type	AC carbon brush motor
Dimension [WxDxH]	75 x 75 x 280mm
Weight	1.7kg
Permissible ambient temperature and humidity	0-40°C, 85%RH
Alt Name	High Shear Homogenizer

ITEMS INCLUDED

No	Name	Description
1	shaft	Solid and liquid dispersion Volume 10-5000mL Max. circum. Speed 22.7m/sec General purpose Emulsion granularity range 1-10µm Suspension granularity range 10-50µm
2	shaft	Emulsion Volume 10-5000mL Max. circum. Speed 22.7m/sec General emulsion purpose Emulsion granularity range 1-10µm Suspension granularity range 10-50µm



1



2

APPLICATIONS

Widely applied for histiocyte lysis, cell homogenization, emulsion, nanometer scale dispersion process in biology, pharmaceutical, genetic and pathology study, dairy product or fruit homogenization, polymerization reaction, production of fragrance, cosmetics, textile auxiliary, food, ink, paints, asphalt, fine chemicals, agricultural chemicals, and analysis in mineral exploration, environmental protection and energy resource exploration.

Routine homogenization, emulsion, depolymerization, dispersion application

Disperse substance to form suspension and emulsion

Disperse pigment and resin

Disperse animal or human tissue into various solutions

Facilitate the dissolve of solid substances

Sample preparation for quality control test

Animal or plant cell lysis

Emulsion, cream cosmetics, and food formulation study

Extraction of active pharmaceutical ingredient from pills and tablets



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