

ZHB - Homogenizer



- 1 | In this equipment a high-speed motor drives a head, which consists of an elongated tubular structure formed by rotor and stator.
- 2 | The speed at which the rotor rotates translates into a high angular and tangential circumferential speed that sucks the material from the bottom of the rotor and throws it out of the stator hole with great centrifugal force.
- 3 | Under the combined effect of hydrodynamic shear, friction, centrifugal extrusion and flow collision, excellent dispersion and homogenization of the material is achieved, 1000 times more efficient than with an ordinary mixer.
- 4 | The head is designed for different purposes: crush, homogenize, emulsify, polymerize, suspend and stir.
- 5 | This device can be used in different sectors, such as tissue dispersion in biotechnology, sample preparation in medicine, cosmetic industry, paint industry, petrochemical processing, etc.

Technical parameters

Power supply	220 VAC, 50/60 Hz
Input power	850 W
Output power	500 W
Rated torque	17.1 N·cm
Working modes	Continuous/Timer
Speed regulation	Stepless
Speed range	2000-28000 rpm
Display	LED
Timer range	1-1000 min
Speed memory function	Yes
Overload protection	Yes
Working heads	12G/18G (included)/24G/30G/36G
Permissible ambient temperature	Less than 40°C
Permissible relative humidity	Less than 80%
Dimensions	165 x 230 x 330 mm
Weight	8.7 kg

Specifications of 18G head



Display LED



18G head

Handling capacity	50-1500 mL
Maximum viscosity	2000 mPas
Maximum linear speed of rotor	15 m/s
Immersion depth in liquid, min/max	45/160 mm
Stator diameter	18 mm
Working head length	222 mm
Maximum working temperature	120 °C
Working head material	Stainless steel SS316
Bearing material	PTFE (Teflon)