



Technical resources

High speed dispersing homogenizer

<https://www.tencanballmills.com/en/products/mixed-series/high-speed-dispersing-homogenizer.html>

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High speed dispersing homogenizer

Model:

High-speed dispersing homogenizer for mixing, emulsifying, dispersing, and homogenizing liquids and powders in biotech, cosmetics, food, and pharmaceutical labs.

Technical specifications

Processing capacity	30-13000ML
Operating mode	Intermittent
Rated torque	68~83n.cm

These specifications describe the series. Confirm the selected model, power supply and configuration before ordering.



The homogenizer and disperser has a novel design concept, a reasonable and compact structure, and adopts a CNC touch-type stepless speed regulator, which is convenient for speed adjustment and can digitally display the operating speed, making the machine safer and more reliable. The drive motor adopts a micro motor with a high-density die-cast aluminum alloy casing, which has high power, high speed, and safe and reliable operation. ; The operating status control adopts electronic stepless speed regulator, which is convenient for speed adjustment. ; The dispersing and homogenizing working head is made of high-quality stainless steel (parts in contact with materials) and has good corrosion resistance. ; The working head is connected to the drive motor using a connector, making it easy to assemble and disassemble. It is especially suitable for mixing and emulsifying liquids/liquids such as biology, physics, chemistry, cosmetics, health products, and food, dispersing and homogenizing liquid/solid powders, and mashing and slurring of tissue cells. It is an ideal experimental equipment for scientific research, product development, quality control and production process applications in scientific research institutions, colleges and universities, health

and epidemic prevention and product manufacturing.

The working head of the homogenizer and disperser has a unique structure. The rotor is driven by the motor at high speed and rotates at a high linear speed, which generates strong liquid shear force and violent high-frequency mechanical effects, prompting the experimental fluid materials to shear and disperse through the rotor and stator under the action of huge centrifugal force. The test materials are subjected to tens of thousands of shearing, tearing and mixing per minute to achieve dispersion and homogeneity. Working head configurations of different specifications are designed to meet different experimental needs.

搅拌系列 产品原理

均质机分散机的工作头的结构独特，利用转子在电机高速驱动下，旋转线速度高，产生强大的液体剪切力和剧烈的高频机械效应，促使实验流体物料在巨大的离心力作用下，通过转子与定子相互剪切、分散。使实验物料承受了每分钟高达数万次的剪切、撕裂和混合，从而达到分散、均质的效果。不同规格的工作头配置，为满足不同实验需求而设计的。

固定夹

高度可自由调节



搅拌工作头

不锈钢材质，不易腐蚀

铝制金属机壳

确保持久使用的机械精度



Technical parameters

NameModel	JZJ200	JZJ200-SH (digital display)	JZJ300-SH (digital display)
Speed r/min	300-23000	300-23000	300-23000
Processing volume ML	30-1500	30-1500	100-13000
Input power w	280	280	510
Output power w	200	200	300
Overall dimensionsmm	220*340*600	210*310*700	210*310*700
Working head configuration MM	Φ12 Φ18	Φ12 Φ18	Φ28 Φ36
Working methods	intermittent	intermittent	intermittent
power supply	AC220V/50hz	AC220V/50hz	AC220V/50hz
Rated torque n.cm	83	68	68

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Before operation, review the selected model's instructions and the material requirements.