

Professional
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TENCAN

Product Brochure



MIXED SERIES

High speed dispersing homogenizer

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

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



Product Overview

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



Homogenizing Disperser

JZJ200 / JZJ200-SH (Digital Display)
JZJ300-SH (Digital Display)

Electronic Stepless Speed Control
Excellent Corrosion Resistance

Better Performance than Ordinary Stirrers



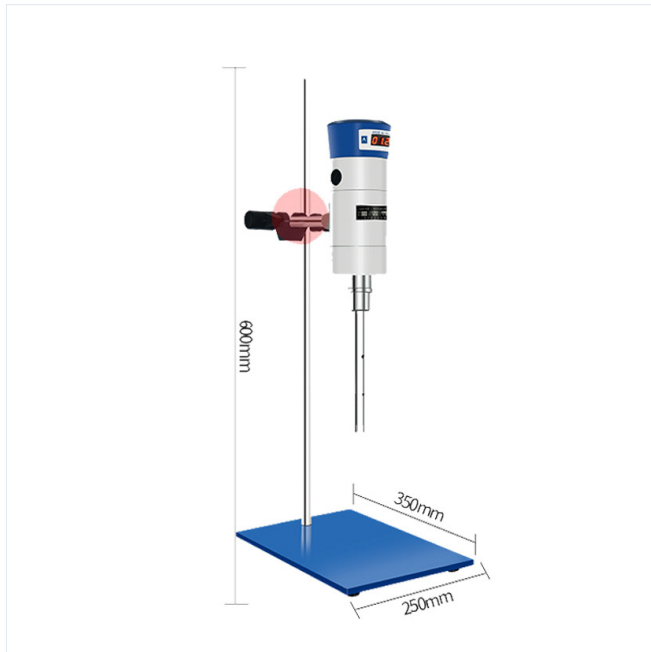
Homogenizing Disperser

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Product Introduction

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.

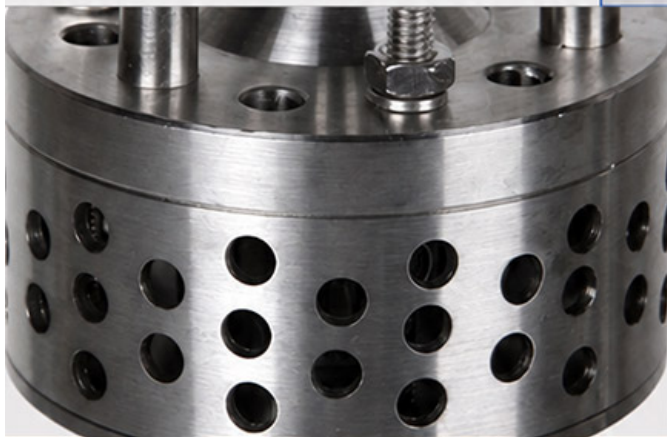
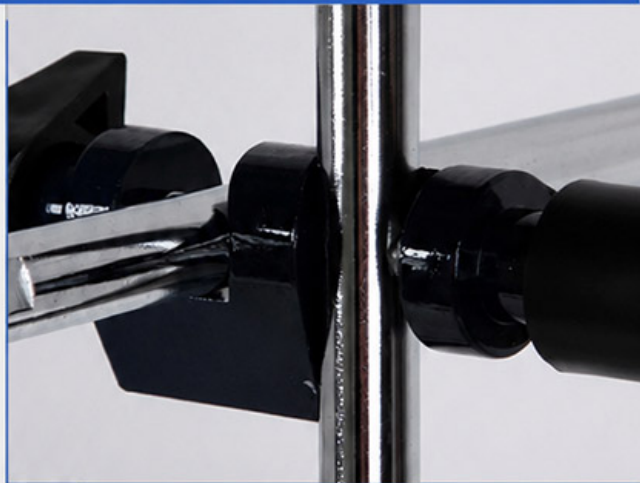
Stirring Series

Product Principle

The working head of the homogenizer/disperser features a unique structure. Driven by the motor at high speed, the rotor generates a high peripheral speed, producing strong liquid shear forces and intense high-frequency mechanical action. Under the large centrifugal force, experimental fluid materials are sheared and dispersed through the interaction between the rotor and stator. The materials undergo tens of thousands of shear, tearing, and mixing actions per minute, achieving excellent dispersion and homogenization. Different working head configurations are designed to meet different experimental needs.

Fixed Clamp

Height can be adjusted freely



Stirring Working Head

Stainless steel,
not easy to corrode

Aluminum Housing

Ensures long-lasting
mechanical precision



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

Accessories & Customization

Accessories

Grinding jars, heating elements, sample holders, control modules and other matching accessories can be selected according to the product configuration.

Customization

For voltage, capacity, chamber size, process temperature or application requirements, please contact TENCAN for a suitable configuration.