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Milling
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TENCAN

Product Brochure



MIXED SERIES

Lab disperser

Lab disperser for mixing and dispersing in paint, ink, coatings, ceramics, battery materials, and catalysts. Ideal for R&D and quality control in chemical industries.

<https://www.planetaryballmills.com/products/mixed-series/lab-disperser.html>

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Product Overview

Lab disperser for mixing and dispersing in paint, ink, coatings, ceramics, battery materials, and catalysts. Ideal for R&D and quality control in chemical industries.



Product Introduction

The laboratory dispersing machine is also called an integrated dispersing and sanding machine or a dual-purpose dispersing and sanding machine. It is designed for crushing, grinding, dispersing, and emulsifying powders such as metals, non-metals, organics, and Chinese herbal medicines. It is especially suitable for laboratory research. It can well achieve various process parameter requirements and simulate various indicators in production. At the same time, due to its advantages of small batches, low power consumption, and low price, it is a powder equipment for schools, research units, and companies to conduct research on crushing processes, new materials, and coatings.

Laboratory dispersing machines are mainly used in paint, ink, coating chemical industry and electronic ceramics, structural ceramics, magnetic materials, lithium cobalt oxide, lithium manganate, catalysts, phosphors, long afterglow luminescent powder, rare earth polishing powder, electronic glass powder, fuel cells, ceramic capacitors, oxygen Zinc varistors, piezoelectric ceramics, nanomaterials, disc ceramic capacitors, MLCC, thermistors (PTC, NTC), ZnO varistors, arrester valves, strontium titanate ring varistors, ceramic filters, dielectric ceramics, piezoelectric transducers, piezoelectric transformers, chip resistors, thick film circuits, pyropotentiometers, alumina ceramics, zirconia ceramics, Production and research industry of phosphors, zinc oxide powder, cobalt oxide powder, Ni-Zn ferrite, Mn-Zn ferrite and other products.

Technical parameters

Motor power/power supply: 0.37KW//220V
Speed: 1400/2800r/min adjustable
Dispersion disc diameter: 50
Lifting stroke: 200

Working Principle

The working principle of the experimental disperser is to use the ball milling medium and materials to tumble at high speed in the ball mill tank to produce strong shearing, impact, and rolling of the materials to achieve the purpose of crushing, grinding, dispersing, and emulsifying the materials.

Product Features

1. Simple structure and easy operation;
2. The mixer adopts a quick-change chuck, which is easy to install, remove and replace. ;
3. Use a sanding barrel with a cooling jacket, which can be cooled while grinding. ;
4. Replace the agitator with a dispersing plate to disperse the materials. ;
5. Able to grind materials at different speeds according to process requirements.

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.