

Professional
Powder Equipment
Manufacturer



Powder
Equipment



Milling
Technology



Powder
Materials

TENCAN

Product Brochure



VIBRATION BALL MILL SERIES

Lab sample grinder machine

GJ

Lab sample grinder machine pulverizes raw materials into fine powder for lab analysis. Ideal for sample preparation in mineral, coal, and chemical testing.

<https://www.labballmill.com/products/grinding-series/vibration-ball-mill/lab-sample-grinder-machine.html>

Generated at 2026-07-28 15:48:04



Product Overview

Lab sample grinder machine pulverizes raw materials into fine powder for lab analysis. Ideal for sample preparation in mineral, coal, and chemical testing.





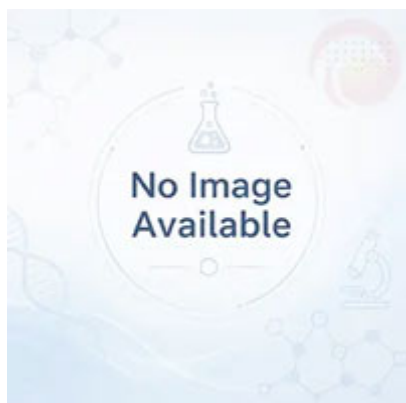
Product Introduction

The working mode of the sample making machine is vibration grinding. The material is placed in a bowl, which contains a crushing ring and a breaker hammer. The bowl forms vibration and grinding functions during high-speed rotation. The material is crushed and ground by the crushing ring and breaker hammer. The material is quickly made into 80-200 mesh (0.175-0.075mm) micro-powdered samples within 2-6 minutes, which can be directly used for testing.

The main parts of the crushing and grinding bowl include ordinary bonded steel type, high manganese steel type, wear-resistant alloy type, chromium steel type, tungsten carbide type, etc.

The hardness of the ore materials that can be crushed by the bowl of different steel materials is also different.

The material is put into a sealed bowl. There is a breaker hammer and a crushing ring in the bowl. The motor drives the eccentric hammer to rotate at high speed, forming vibration, impact force and friction to turn the material into powder.



The sample making machine is mainly used to grind raw materials for testing.

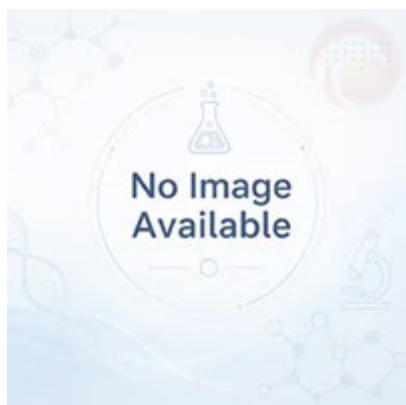
It is specially used for crushing and grinding non-metallic minerals with a certain hardness, and is widely used in testing in coal, coking, non-ferrous metal smelting, mining and other industries. Such as: coal, coke, gangue, various ores, etc.

Technical parameters

model	Material opening size mm	Feed particle size mm	Discharge particle size (head)	production capacity g	power	Dimensions mm	weight (Kilogram)
GJ-3	130*3	13	80-200	300	1.5KW 380V	530*530*920	About 130KG
GJ-2	130*2	13	80-200	200	1.1KW 380V	480*480*730	About 115KG
GJ-1	130*1	13	80-200	100	1.1KW 380V	480*480*730	About 110KG

Product Features

1. The sample preparation particle size is uniform, the speed is fast, the work is reliable, and the grinding efficiency is high.
2. Sample preparation can be used directly without screening, with few steps and high production efficiency.
3. Reasonable design: The whole machine is sealed and designed to meet environmental protection requirements.
4. Smooth operation, low noise, and meets safety production requirements.
5. Compact structure, convenient maintenance and operation.
6. Can grind 1-3 samples at the same time.
7. The grinding bowl is sealed without sample loss and is made of special anti-wear materials with long service life.
8. The equipment can be equipped with an electronic timer.



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.