

Professional
Powder Equipment
Manufacturer



Powder
Equipment



Milling
Technology



Powder
Materials

TENCAN

Product Brochure



OTHER GRINDING EQUIPMENT

Micro airflow pulverizer

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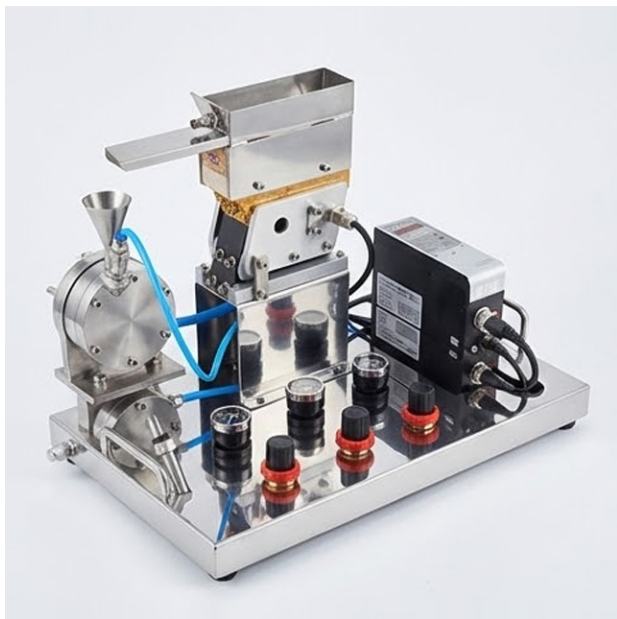
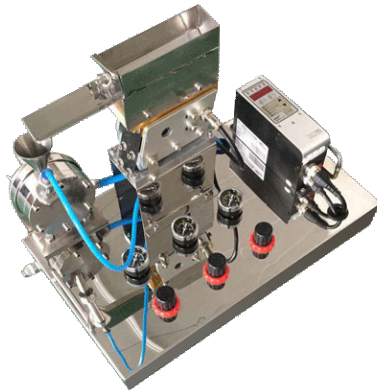
Compact benchtop airflow pulverizer for ultra-small batch ultrafine grinding of high-value powders. Ideal for laboratory R&D and small-scale precision milling.

<https://www.planetaryballmills.com/products/grinding-series/other-grinding-equipment/micro-airflow-pulverizer.html>



Product Overview

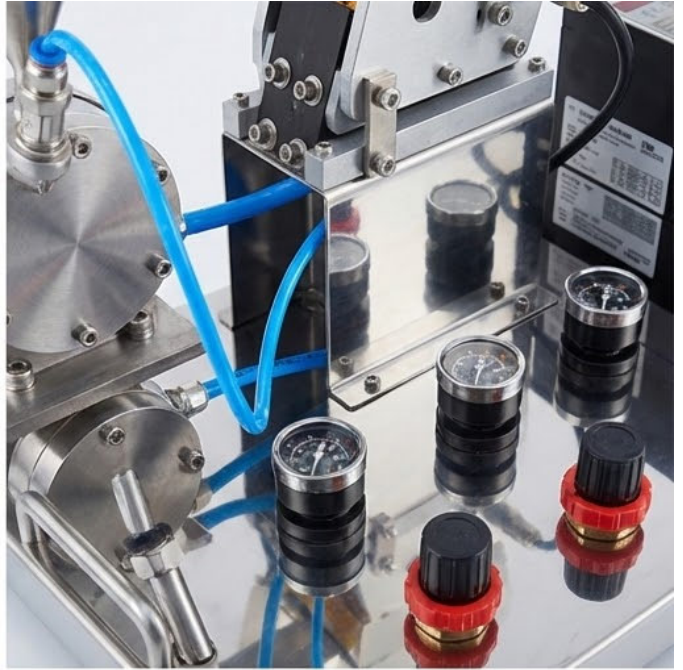
Compact benchtop airflow pulverizer for ultra-small batch ultrafine grinding of high-value powders. Ideal for laboratory R&D and small-scale precision milling.



Product Introduction

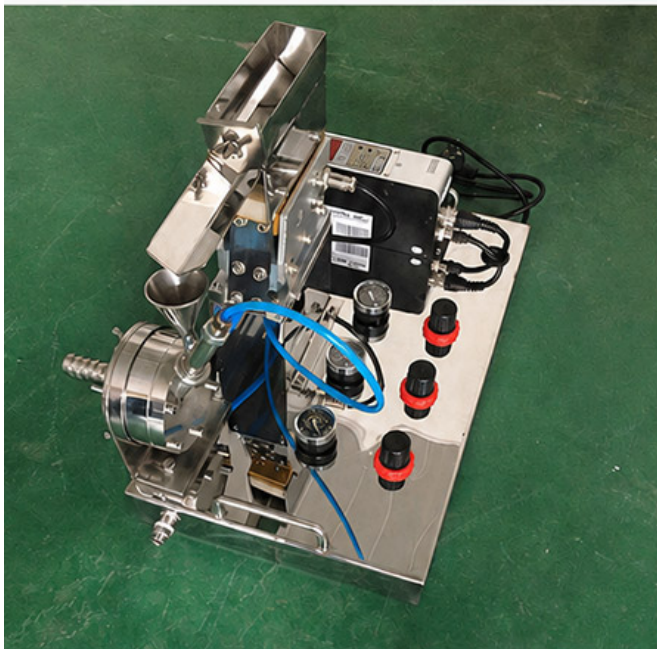
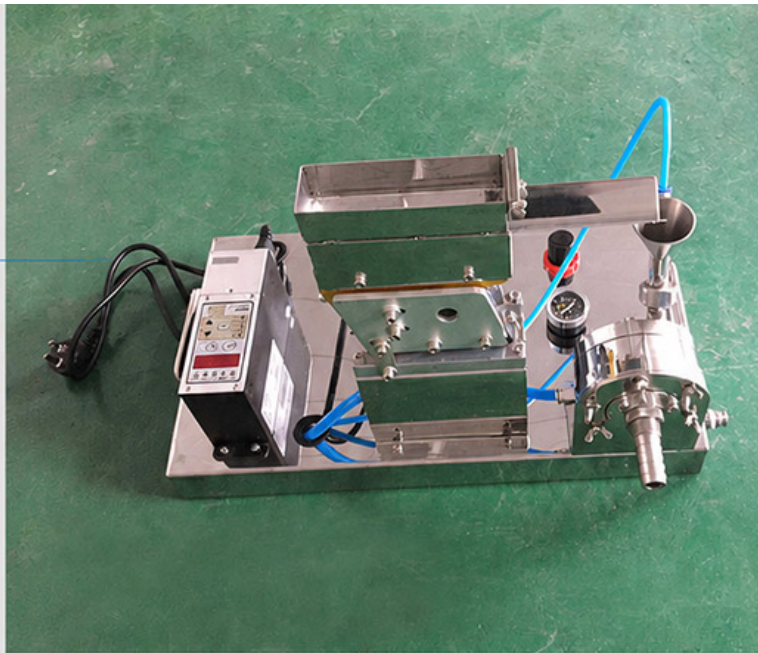
Micro jet pulverizer is an ultra-small machine that can be placed on the work surface. Suitable for ultra-fine grinding of ultra-small amounts of high-value powder in laboratories. This machine is characterized by a high recovery rate, and because it is blown with compressed air, the inside of the machine is clean. It is especially suitable for laboratories that frequently change powder types. It is used to crush high-hardness and brittle materials, such as: zircon sand, zirconium oxide, silica, alumina, calcium carbonate, carbon black, AC foaming agent,

paint, fluorescent powder, various fillers for plastics and rubber, and pearl powder.



Desktop Mini Mill

A compact tabletop machine that can operate directly on a workbench. Suitable for ultrafine grinding of very small quantities of high-value powders in laboratories.

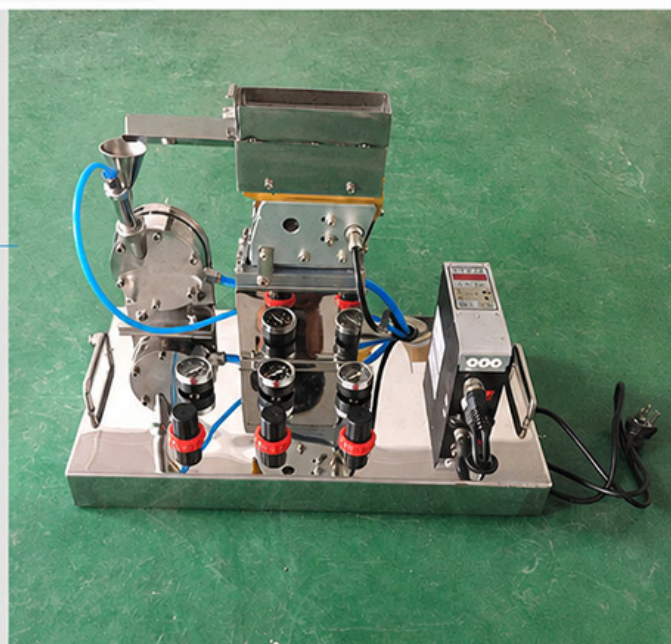


High Recovery Rate

This machine features a high recovery rate. The interior can be cleaned simply by blowing with compressed air, making it especially suitable for laboratories that frequently change powder types.

Wide Range of Applications

Used for grinding high-hardness and brittle materials, such as zircon sand, zirconia, silicon dioxide, alumina, calcium carbonate, carbon black, AC blowing agent, coatings, phosphors, plastics, various fillers for rubber, and pearl powder.



Technical parameters

1. Processing capacity: 0.5-200g/hr
2. Feeding 100 mesh, discharging 2-5 micron
3. Gas consumption: $>0.4M^3/min$
4. Pressure: feeding nozzle 0.3~0.4MPa ; Crushing pressure 0.6~0.7MPa
5. Power required: 5.5KW/hr
6. Overall dimensions: 540X340X250(cm)

The characteristics of this machine are high recovery rate, and the inside of the machine is clean as soon as it is blown with compressed air. It is especially suitable for laboratories that frequently change powder types. It is used to crush high-hardness and brittle materials, such as: zircon sand, zirconium oxide, silica, alumina, calcium carbonate, carbon black, AC foaming agent, paint, fluorescent powder, various fillers and pearl powder for plastics and rubber, etc.



Zircon Sand



Zirconium Oxide



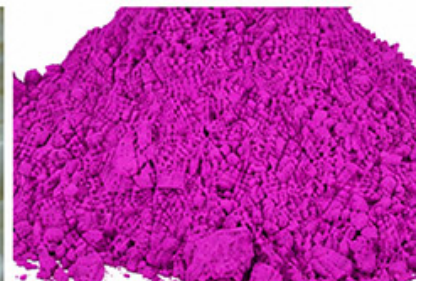
Coating



Rubber



Plastic



Fluorescent Powder

Working Principle

The powder is added to the feeding nozzle by the electromagnetic vibrating feeder, and is sprayed into the crushing cavity by the feeding compressed air. The high-speed airflow ejected from the crushing nozzle forms a supersonic flow, causing collision and shearing in the flow and collision and friction with the wall of the crushing chamber to crush into fine powder. During the high-speed movement and crushing process of the logistics, particles of different fineness will produce different separation in the rotating air flow. Because the centrifugal force of the centripetal airflow is greater than the centrifugal force, the powder particles with qualified fineness are brought to the discharge pipe by the exhaust airflow, and the finished products are collected through the bag. The larger particles are thrown to the periphery because the centrifugal force is greater than the centrifugal force of the centripetal airflow, and the crushing process continues with the high-speed movement of the logistics.

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.