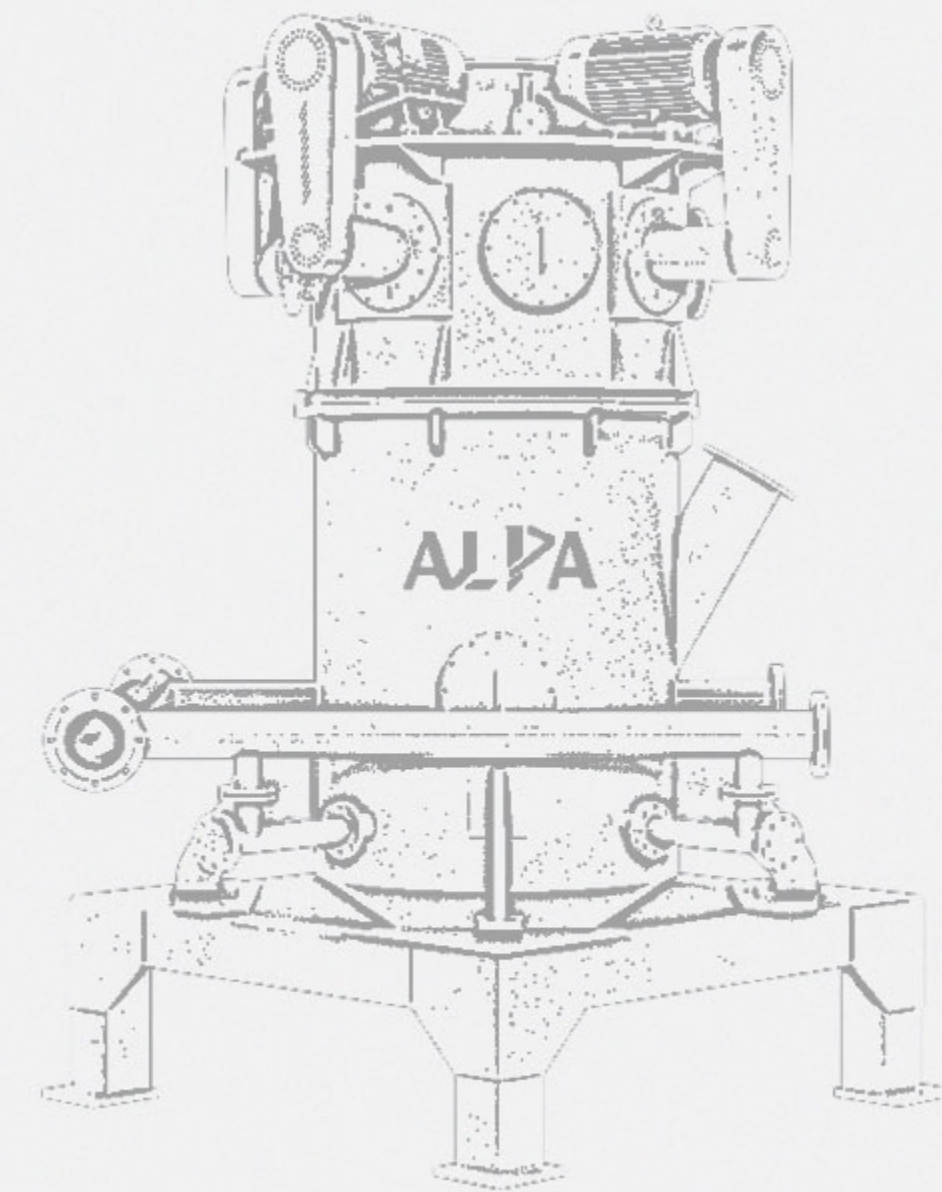


Product brochure

Product display/Product details
Technical parameter/Customer case

Fluidized Bed Jet Mill



2021 | Shandong
ALPA

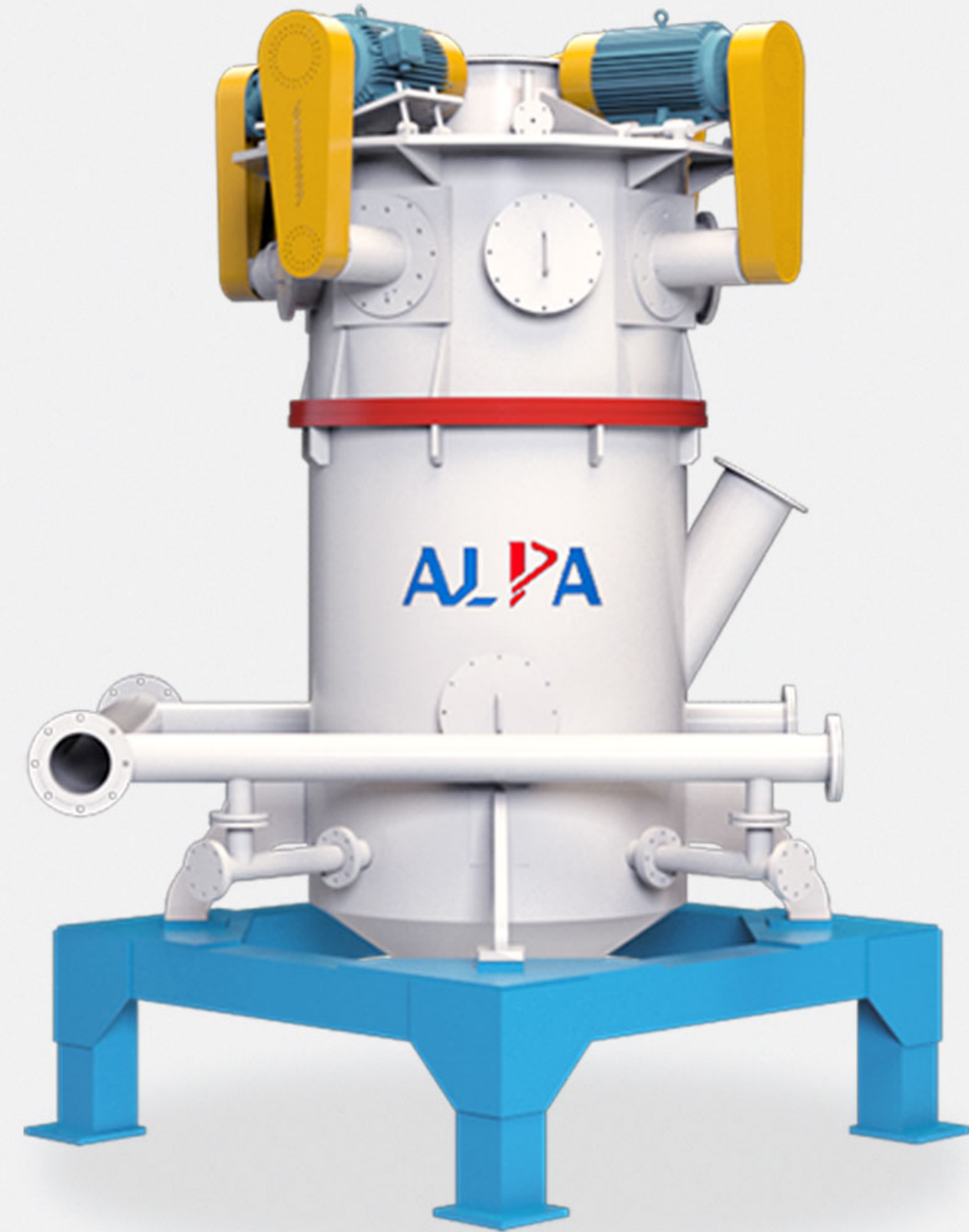
Fluidized Bed Jet Mill

Innovative high precision air flow mill with precision grading wheel

D50:1—45 μ m

Particle size range

After filtering and drying, compressed air is injected into the milling chamber at high speed through Laval nozzle. At the intersection of multiple high-pressure air streams, the material is repeatedly collided, rubbed and sheared to grind. The milled material moves to the classification area with the upward air flow under the action of fan pumping force. Under the strong centrifugal force generated by the high-speed rotating classification turbine, the coarse and fine materials are separated. The fine particles which meeting the requirements are collected by the cyclone separator and bag filter through the grading wheel, the coarse particles drop to the milling area and continue to mill.





Product display



MQW Fluidized Bed Jet Mill



MQW Fluidized Bed Jet Mill



MQL Fluidized Bed Jet Mill

- The particle size range is d50:1-45 μ m with good shape and narrow size distribution
- The crushing process depends on the collision of the material itself, so the equipment is wear-resistant and the product purity is high
- The rotor speed can be adjusted by frequency conversion, and the particle size distribution can be adjusted flexibly
- It is suitable for dry grinding of all kinds of materials with Mohs hardness below 9, especially for grinding of materials with high hardness, high purity and high added value
- Constant temperature or low temperature grinding without medium, especially suitable for the grinding of heat sensitive, low melting point, sugary and volatile materials
- The whole system is closed crushing, less dust, low noise, clean production process and environmental protection
- The control system is controlled by program and easy to operate
- The explosion-proof design can be selected, and the nitrogen circulation system can also be upgraded to meet the needs of superfine grinding of flammable, explosive and oxidizable materials



 Technical parameter

Parameters / specifications (horizontal)	MQW03	MQW06	MQW10	MQW20	MQW40	MQW60	MQW120
Feed size (mm)	<3	<3	<3	<3	<3	<3	<3
Product size (D97:μm)	2 ~ 45	2 ~ 45	2 ~ 45	2 ~ 45	2 ~ 45	2 ~ 45	2 ~ 45
Production capacity (kg/h)	2 ~ 30	30 ~ 200	50 ~ 500	100 ~ 1000	200 ~ 2500	500 ~ 3500	800 ~ 7500
Air consumption (m ³ /min)	3	6	10	20	40	60	120
Air pressure (Mpa)	0.7 ~ 0.85	0.7 ~ 0.85	0.7 ~ 0.85	0.7 ~ 0.85	0.7 ~ 0.85	0.7 ~ 0.85	0.7 ~ 0.85
Installed power (kW)	21	42	85	147	282	415	800



 Technical parameter

Parameters / specifications	MQL03	MQL06	MQL10	MQL20	MQL40	MQL60	MQL80	MQL120
Feed size(mm)	<5	<5	<5	<5	<5	<5	<5	<5
product size(D97:μm)	8~150	8~150	8~150	8~150	10~150	10~150	10~150	10~150
production capacity(kg/h)	5~100	10~200	20~400	50 ~ 800	150 ~1500	300 ~2000	400 ~ 6000	600 ~ 10000
air consumption(m ³ /min)	3	6	10	20	40	60	80	120
air pressure(Mpa)	0.7 ~ 0.85	0.7 ~ 0.85	0.7 ~ 0.85	0.7 ~ 0.85	0.7 ~ 0.85	0.7 ~ 0.85	0.7 ~ 0.85	0.7 ~ 0.85
installed power (kW)	26~37	46~68	68~106	145~184	276~310	402~427	520~600	720~900



Material solutions

Hard mineral materials

Such as silicon carbide, zircon sand, corundum, glass, alumina, tungsten carbide, etc

High purity materials

No pollution treatment is required, such as phosphor, silica gel, silica, special metals, ceramic raw materials, etc.

Thermal sensitive materials

Such as carbon powder, resin, wax, fat, ion exchanger, plant protective agent, dye, pigment, natural rubber, PE, PP, PVC, polyurethane, etc.

Magnetic material

Neodymium magnet materials: neodymium iron boron, samarium cobalt, rare earth, etc.

Mineral raw materials

Kaolin, graphite, mica, talc, etc.

Chemical industry

Fertilizers, pigments, industrial ceramics, glass, textiles, inkjet, refractories, activated carbon, aluminum hydroxide, carbon black, catalyst

Pharmacy

Medicine, pesticide, active pharmaceutical ingredients, etc.

Food

Rice, peas, cocoa cake, spices, algae, nutrition, health products, vitamins, etc.

2021



Customer case



MQW20T



MQW10



MQW03



MQW20T



MQW03



MQW40T



MQW10



MQW20T