

Target Jet Mill with integrated classifier

NEW PRODUCT

MICRON JET-MJQ

For products free from Metal Contamination

GENERAL

The Micron Jet MJQ is a high performance jet mill with an integrated classifier, achieving the highest milling performance of its type. It also boasts high cleanability. It is possible to fabricate the contact part in all solid ceramics. This jet mill is suited for grinding various products such as battery materials, various chemicals, minerals and pharmaceuticals.

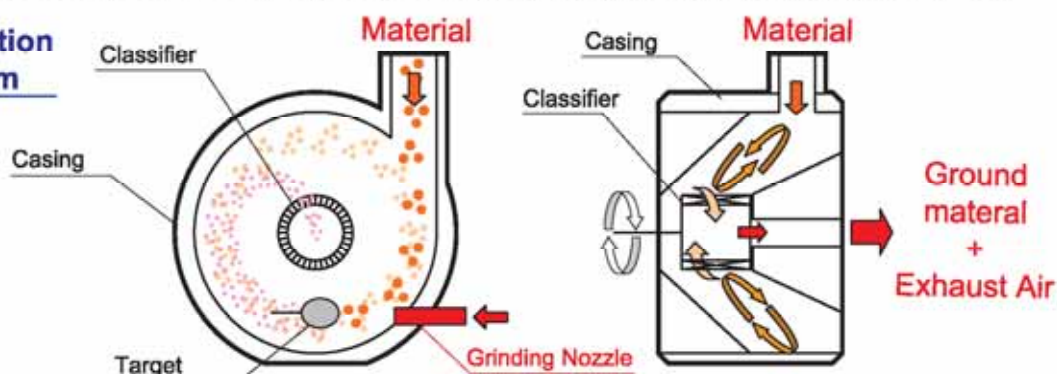


MJQ-1

DESIGN

The classifier is located in the center of the casing. The grinding nozzle and the target plate is positioned in the lower part of the casing. The feed material collides with the target plate with the aid of a jet stream from the grinding nozzle. Ground fine particles are immediately discharged out of the system after grinding and the still coarse particles circulate in the mill until they become fine enough. The fineness of the product is determined by easily adjusting the classifier speed.

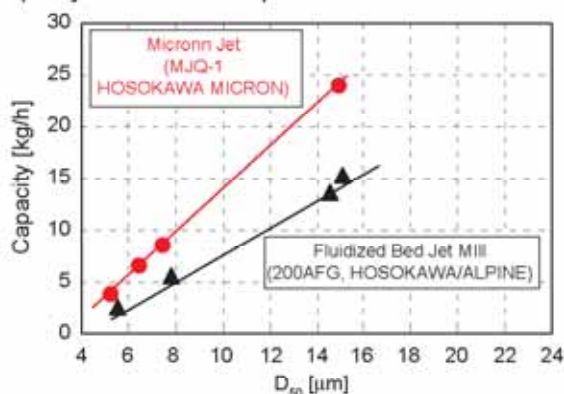
Interior construction and mechanism



FEATURES

High Energy Efficiency

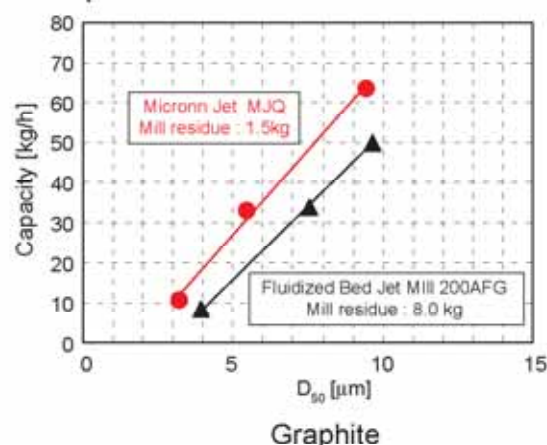
With higher grinding efficiency over other fluidized type jet mills, it is possible to obtain a higher processing capacity at the same compressed air flow.



Cathode material for rechargeable battery

Low Residue in the mill

There is less residue inside the mill compared to fluidized jet mills. Therefore, it is suited for wide variety low-volume productions.



Graphite

All-Ceramic Construction

It is possible to fabricate all contact parts in ceramic. The mill is suited for very abrasive materials, or products which require a metal-contamination free grinding area.

Easy Size Control

The product size can easily be changed by adjusting the classifier speed.

Very-Easy-To-Clean Construction

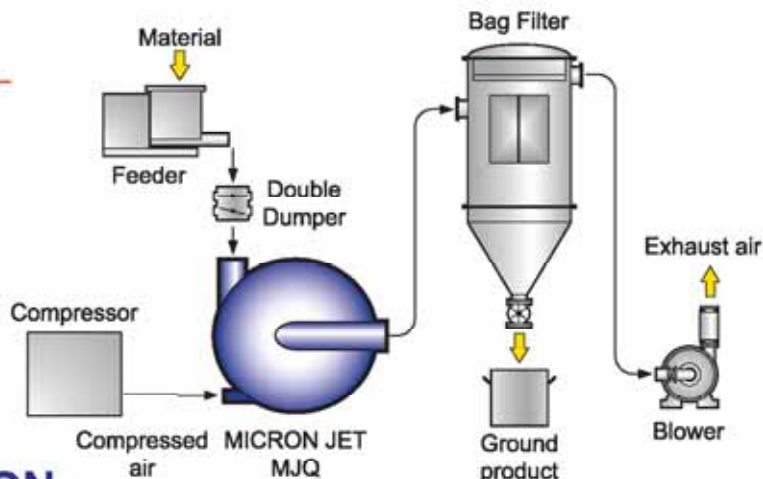
As the construction is compact and simple, disassembly and cleaning is very easy.

Designed for Handling Sticky Material

The classifying rotor is positioned at the center, and the grinding air is circulated around it. Due to this design, there is minimal product build up.

SYSTEM FLOW

The basic system flow is pictured on the right. The system consists of the feeder, the compressor, bag filter and blower. It is also possible to apply a closed circuit system using inert gas, to prevent oxidization.



STANDARD SPECIFICATION

Model	MJQ-LAB	MJQ-1	MJQ-2	MJQ-3
Scale-Up Factor	—	1	4	8
Mill Compressed air [Nm ³ /min]	1	4	16	32
Classifier motor [kW]	1.5	5.5	22	45
Dimensions	H [mm]	280	1150	1440
	W [mm]	480	900	1080
	D [mm]	280	850	1500

TYPICAL APPLICATIONS

Material	Model	Feed Size [μm]	Product Size [μm]	Capacity [kg/h]
Carbon	MJQ-1	350	10	70
Lithium Carbonate	MJQ-1	500	2	10
Iron Phosphate	MJQ-1	2.5	1.3	80
Aluminium Hydroxide	MJQ-1	9	5	40
Blowing Agent	MJQ-1	20	6.5	180
Cosmetic	MJQ-LAB	15	3	3.5
Fluoride	MJQ-LAB	25	6	2



Process Technologies for Tomorrow

HOSOKAWA MICRON CORPORATION

Hosokawa Micron Corporation is a member of the Hosokawa Micron Group, responding to global needs through emphasis on materials equipment and systems for powder processing, thermal processing, environmental protection, and plastics processing.

The Group maintains facilities for research, engineering, manufacturing, and service in each of the world's industrial markets.



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