

Dry agitating media mill

PULVIS

Environmentally friendly machine for ultra-fine powder

NEW PRODUCT

General

Pulvis was developed as an energy-efficient ultra-fine grinding machine.

This high-efficiency mill produces sub-micron size particles.

Design and Operation

The milling part is located at the bottom of the machine. Feed material is ground by agitated media, which generate forces of hitting, compressing, shearing and friction. Ground particles are conveyed by air, passing through the grinding chamber, to the classifier. The classifier separates the required fine product from coarse particles. The coarse particles return to grinding zone.



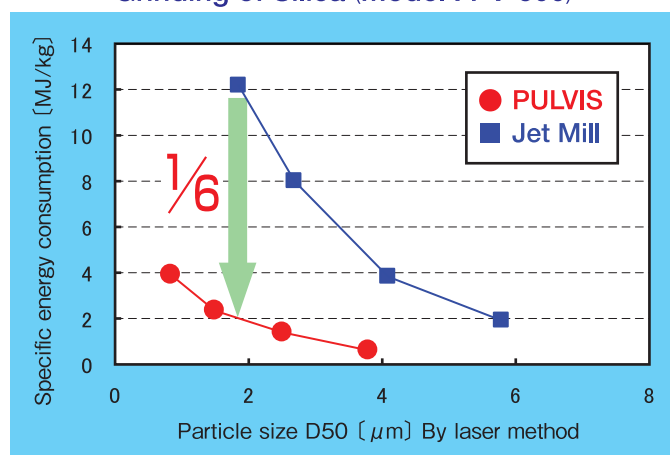
Pulvis (model : PV-600)

Features

Energy saving

With high grinding efficiency specific energy consumption is reduced by more than 80%. Finer particle sizes are possible compared to jet milling.

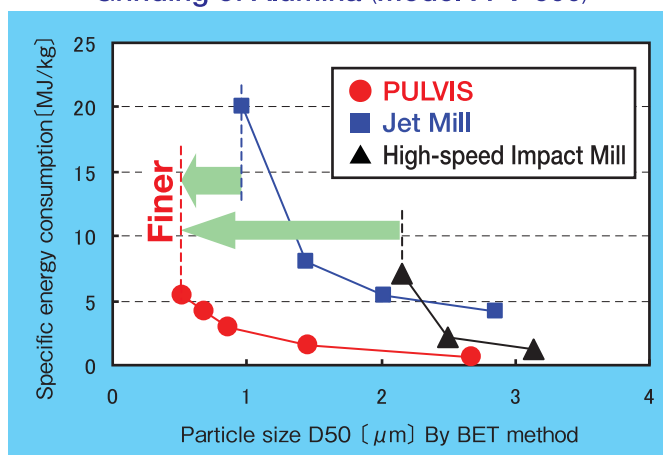
Grinding of Silica (Model : PV-600)



Ultra-fine particle

The high speed air classifier produces sub-micron particles with high great efficiency.

Grinding of Alumina (Model : PV-600)



Wear protection

Grinding parts and classifying parts are available in ceramic materials of construction.

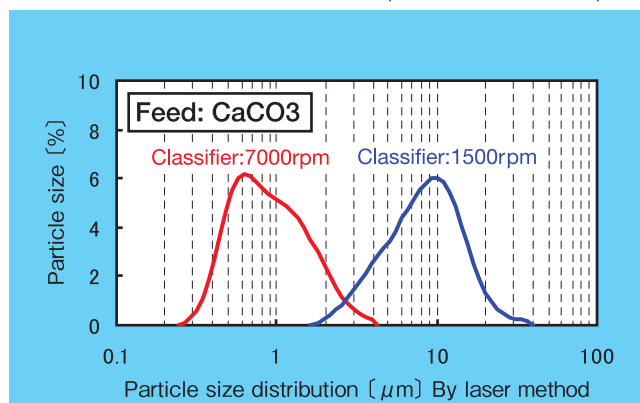
Easy access

Easy assembly, disassembly and cleaning are achieved with this design. Ideal machine for frequent material changes.

Adjustable particle size

Fineness is determined by changing the classifier speed.

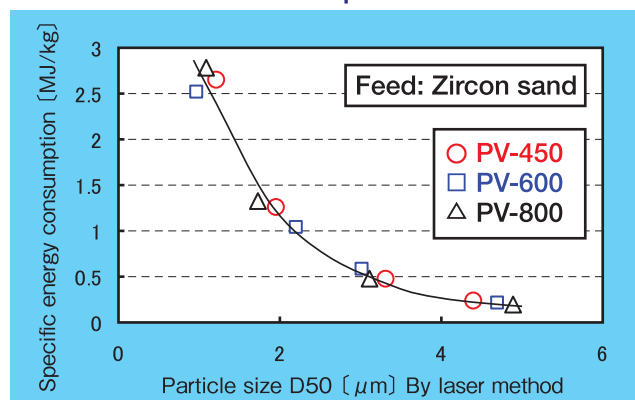
Particle size distribution (Model : PV-800)



Test equipment

It is possible to test to confirm scale up for production runs.

Scale-up tests

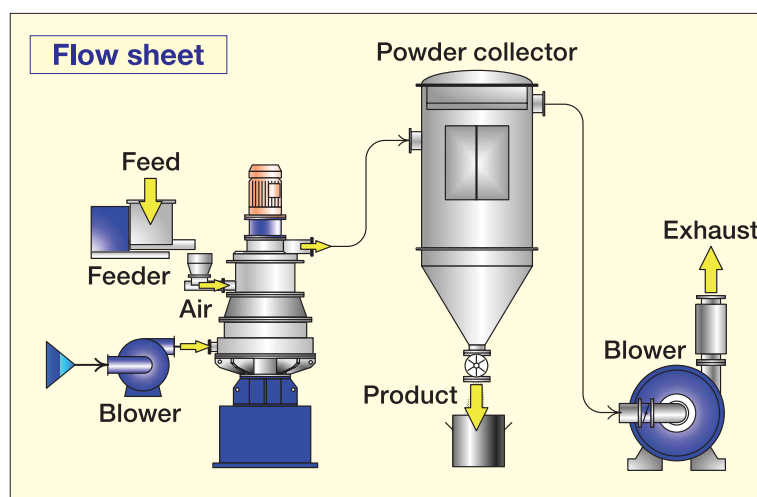


Application

Ceramic materials, Metal oxides, Battery materials, Minerals, Glass, Hydrogen absorbent alloys, Magnetic materials, Pigments, Carbon, etc.

System flow

This is a typical flow system for the Pulvis, which consists of a feeder, blowers and powder collector. Depending on the material, a closed nitrogen circuit system is available.



Specification

Model	PV-150	PV-250	PV-450	PV-600	PV-800	PV-1000
Grinding motor [kW]	0.75	2.2	11	18.5	37	75
Classifying motor [kW]	1	1	3.7	7.5	15	30
Grinding media [ℓ]	1	5	25	50	100	200
Process Air [m ³ /min]	0.7	1~1.5	6~9	10~15	18~28	30~40

The contents of this specification are subject to change without any prior notice, due to any improvement or enhancement.



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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