

Dispersing Machine for Nano Particle

NANO GETTER[®]

Dispersing Machine for Mass Producing Nano Particle

MAX NANO GETTER

NANO GETTER / MAX NANO GETTER

Dispersing into Nanometer Size



DMR180

High Quality and High Precision

- Realizing **Mild Dispersing** by Ideal Bead Movement
- **Mass Production** for High-quality and High-precision Nano Particles
- **Reliable Beads Separation** and **Stable Use** of Microbeads



HFM4

Your Partner for Fine Particle Technologies

Various lineup from lab machines to large machines

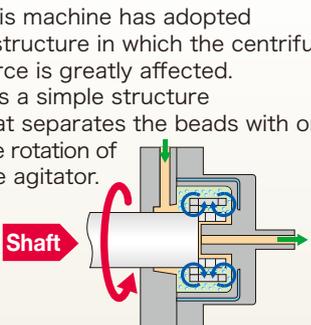
To minimize damage to the particles, Mild Dispensing will produce nanoparticles of high quality.

NANO GETTER series adopts the ideal mechanical structure and depending on the amount of grinding chamber volume, micro sized beads can be used.

Adopted the grinding chamber structure that matches the production volume

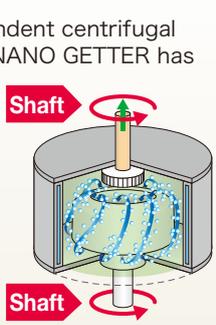
Small scale machine **NANO GETTER[®]**

This machine has adopted a structure in which the centrifugal force is greatly affected. It is a simple structure that separates the beads with only the rotation of the agitator.




Production scale machine **MAX NANO GETTER**

Adopting independent centrifugal separator, MAX NANO GETTER has overcome the problem of large machines such as small centrifugal action and poor beads separator.




Ashizawa supports you for producing nano particle efficiently by choosing the optimal model machine.

Specifications

Table sized machines

Specifications are subject to change without notice.

| | HFM02 Batch type | DMS65 | DMR/S110 | DMR/S180 | HFM4/8 Conversion | HFM20 | HFM50 | HFM125 |
|---|---|---|---------------------------------------|--------------------|--|--------------------|--------------------|-----------------------------|
| Grinding Chamber Volume (L) | 0.2 | 0.12 | 0.45 | 2.1 | 4 8 | 20 | 50 | 125 |
| Drive Power Mill (kW) | 2.2 | 2.2 | 3.7 | 11 | 11 | 15~30 | 30~55 | 55~110 |
| Drive Power Separator (kW) | — | — | — | — | 3.7 | 11 | 15 | 30 |
| Dimensions [WxDxH] (mm) | Mill: 400×550×600 Whole ^{※1} : 1400×600×600 | Mill: 400×550×600 Whole ^{※1} : 1400×600×600 | 1000×800 ×1000 | 1000×1700 ×1200 | 1200×1200 ×1900 | 1600×1600 ×2300 | 2000×2000 ×2800 | 2500×2500 ×3100 |
| Lift (mm) | — | — | — | — | 400 | 500 | 600 | 700 |
| Height (mm) | — | — | — | — | ~2300 | ~2800 | ~3400 | ~3800 |
| Weight (kg) | Mill: 40 Whole ^{※1} : 90 | Mill: 40 Whole ^{※1} : 90 | 350 | 800 | 1300 | 2500 | 3200 | 4000 |
| Grinding Media Diameter (mm) | φ0.03~0.2 | φ0.03~0.3 | φ0.03~0.5 | | φ0.03~φ0.5 | | | |
| Separation System | — | Centrifugation Wheel ^{※2} | | | Independently Driven Centrifugal Separator | | | |
| Shaft Seal | Double Mechanical Seal | Double Mechanical Seal | | | | | | |
| Agitator/ Inner Surface of Grinding Chamber | Ceramics and Plastic | Ceramics | Ceramics, SUS, High-Cr steel, Plastic | | | | | SUS, High-Cr steel, Plastic |

※1: "Whole" includes a mill, a pump, a tank, a mixer and a control panel.
※2: Screen is optional.

Ideal for Laboratory

LABSTAR mini

※ For the detail, please see Labstar series brochure.

Fine Grinding
LMZ015

Mild Dispensing
HFM02

Batch Type
DMS65

Table sized wet grinding and dispersing mill

The minimum sample
100 cc

Scalable to
Production scale

Applications

- Optical materials · Films
- Pigments
- Cosmetics
- Multilayer capacitors
- Dyes
- Abrasive for SC
- Photocatalyst
- Magnetic recording materials
- Resist inks
- Batteries, etc.

Trial test, Toll grinding, Facilities are available

Trial tests, grinding services are available at our head office in Chiba, JAPAN. We will suggest the optimal conditions based on the past experience. Feel free to contact us for further information.

Your Partner for Fine Particle Technologies

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