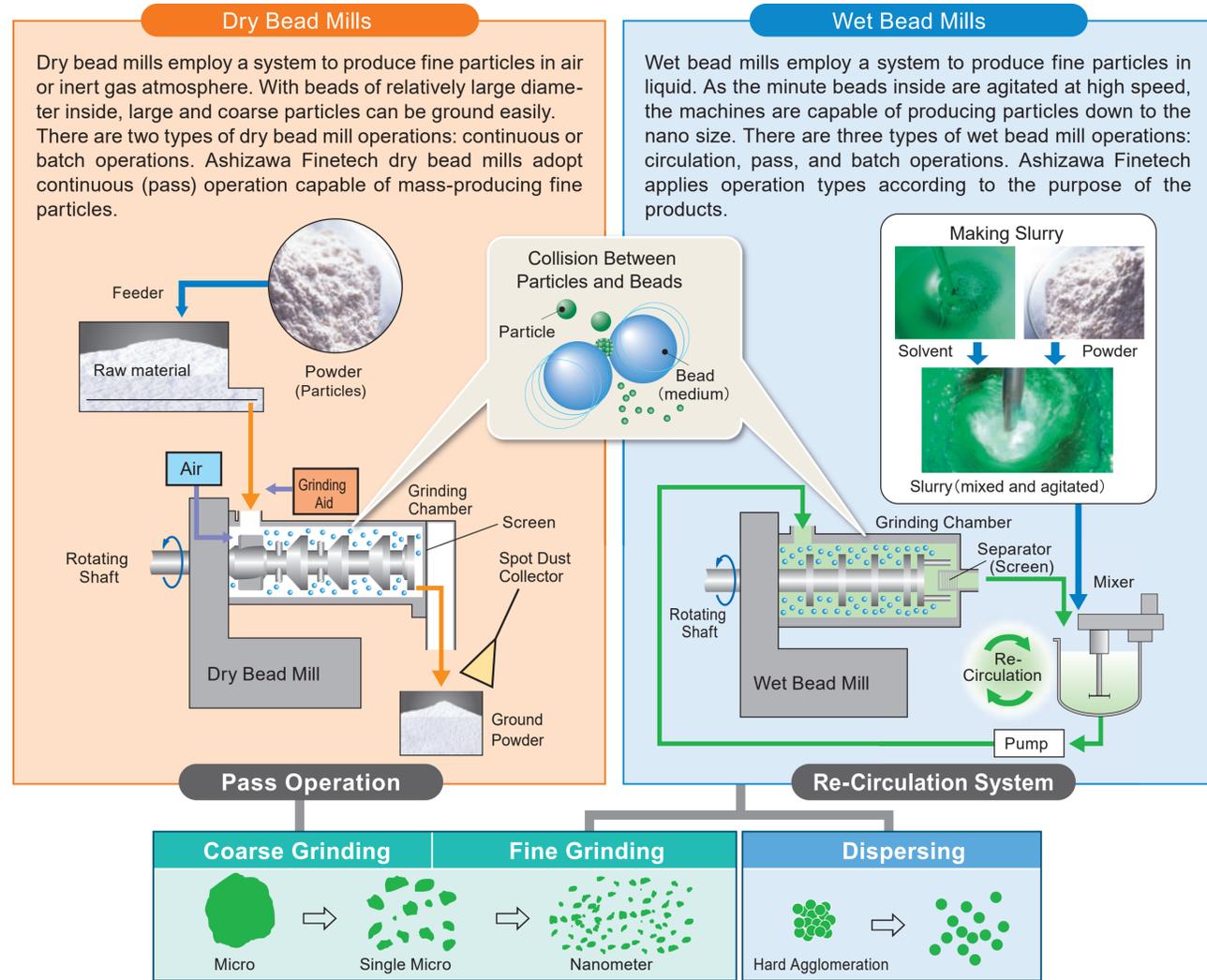


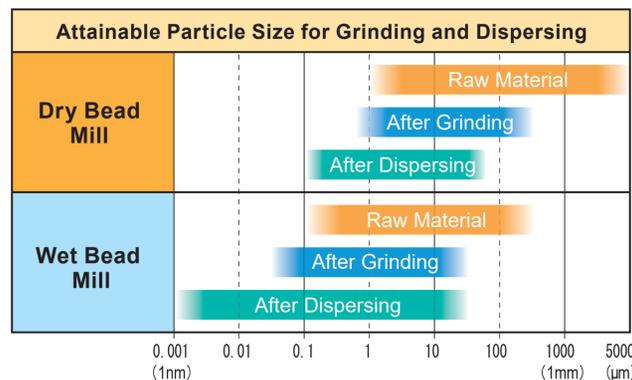
What Is a Bead Mill? Bead Mills That Offer Nanotechnology

Bead mills are grinding and dispersing machines designed to grind and/or disperse particles down to the micro and nano scales. Beads (grinding media) inside the grinding chamber are agitated by rotating the shaft and the particles are ground and/or dispersed by the collision and shear force of the beads. The outlet of the grinding chamber has a filtering structure to separate beads from particles, retaining beads inside the chamber and enabling continuous production of fine particles.



Comparison Between Dry and Wet Bead Mills

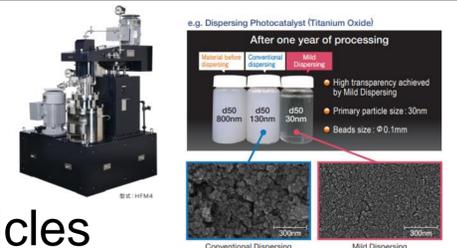
	Dry Bead Mill	Wet Bead Mill
Bead Size	φ1.5 to 8 mm	φ0.03 to 2 mm
Shaft Sealing	Easy (Oil seal·Air seal)	Precise (Mechanical seal)
Material Wear	Low (1/10, Compared with wet processing)	High
Re-agglomeration	More likely	Less likely
Particle Compounds	Good	Possible
Mechanochemical Effect	Large	Extremely small



Wet Grinding

MAX NANO GETTER

- Mass-producing high-quality nano particles
- Supporting wide applications by setting mild dispersing, grinding
- Reliable bead separation and stable use of microbeads



Dry Dispersing

Dry STAR

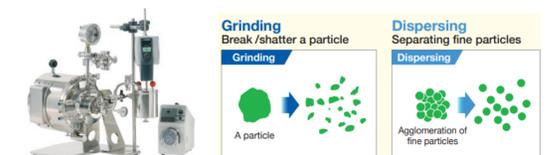
- Achieving submicron-size particles by dry grinding
- Capable of testing 0.5L as a minimum sample volume
- Particle diameter of 10μm at maximum without using classifiers



Laboratory Mill

LABOSTER Mini

- Easy to handle
- Scaleup to production size
- Common frame for three different uses with one machine



Others

☆ de-aerators, stirrers and mixers, kneaders, etc.

Your Partner for Fine Particle Technologies

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