

Contract Processing for Wet Media-Less Micronization

We offer the Nanovater, a wet media-less micronization device that enables reduction of contamination by eliminating media, damage-free processing of particles, and uniform dispersion. Feel free to contact us for more information.

Sanda Manufacturing Site



ENTIRE SANDA MANUFACTURING SITE (AERIAL PHOTO)



Inside Organic Solvent Hazardous Material Factory (General)



Inside Organic Solvent Hazardous Material Factory (Clear/White)

Raw Material Delivery Route



The raw material delivery route is equipped with double sheet shutters, and inside there is an air shower system. The sheet shutters are interlocked.

Features of the Wet Media-less Micronization Device

1 New Wet Dispersion Factory

This new manufacturing site was established in Sanda, Hyogo Prefecture (Techno Park) in July 2016. The raw material intake is equipped with an air shower system, and each production process is separated by partitions, ensuring consideration for the environment.

3 Able to Handle Everything From Lab Testing to Full-Scale Production

Equipped with lab facilities, we are able to conduct comprehensive formulation studies and process adjustments with the assumption of full-scale production.

2 Equipment Features

The process utilizes the shear force from liquid-to-liquid collisions, allowing treatment without damaging (stressing) the particles. Contamination from the equipment and cross-contamination from residues are minimized. Additional mixing, dispersion, and filtration equipment are available to accommodate complex manufacturing processes.

4 Extensive Processing Know-How

With our expertise cultivated over many years, we handle dispersion processing from micron to nano scale according to customer specifications. Our proprietary formulation techniques tailored to target characteristics can be utilized, allowing us to propose dispersions that meet your objectives.

Main Production Equipment

■ Nanovater for Testing



■ Nanovater for Production



■ Dissolver



Main Evaluation Equipment

Laser Scattering Particle Size Distribution Analyzer (LA-960 V2 HORIBA)



Particle Size Distribution Measurement Device (Nanotrac Wave-IIUT-151)



Spectrophotometer (CM-3600 A Konica Minolta Japan)



E-Type Rotational Viscometer (TV-30 Toki Sangyo)



Temperature and Humidity Controlled Chamber



HIRESTA UP (MCP-HT450 Mitsubishi Chemical Analytech)



Loresta GP (MCP-600 Mitsubishi Chemical Analytech)



B-Type Rotational Viscometer



Main Specifications of Nanovater

Device Name	Nanovater	
Device Name	Testing Machine NVL-ES008-D	Production Machine NVB-E152 D24X-EXP
Number of Units	1	1
Type	Fully Automatic Drive Type	Build-up Type
Flange Configuration	Single Axis	Dual Axis
Continuous Processing Capacity	6 L/hr (D10)	150 L/hr (D24)

(Auxiliary Equipment)

: Dissolver, Cartridge Filter, Turntable

(Contract Processing Examples)

: Dispersion of carbon-based fillers/binders/additives (solid to liquid)/solvents

(Application Examples)

: Electronics materials field, etc.

Sanda FI Factory

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