



Contract Dispersion Processing Using a Triple-Roll Mill

We possess a triple-roll mill for the manufacturing of high-viscosity dispersions. Among our triple-roll mills, we have one dedicated triple-roll mill for functional materials, separated from general production products and equipped with specialized air conditioning facilities. This setup is suitable for contract projects with constraints in the manufacturing environment, so please feel free to contact us.

ENTIRE OSAKA OFFICE



DEDICATED TRIPLE-ROLL MILL FOR FUNCTIONAL MATERIALS



VINYL CURTAINS ARE USED TO SEPARATE GENERAL PRODUCTION PRODUCTS.

Features of the Dedicated Triple-Roll Mill Dispersion Device for Functional

1 Dedicated Triple-Roll Mill for Functional Materials

We have one dedicated triple-roll mill, separated from general production products by vinyl curtains and equipped with specialized air conditioning facilities. This setup is suitable for products that require contamination prevention and temperature management.

Dispersion processing is possible across a wide viscosity range from medium to high viscosity.

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

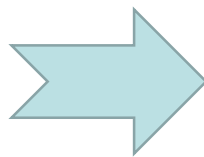
We are equipped with laboratory testing facilities, allowing us to conduct formulation studies and processing feasibility checks up to actual production, providing support throughout the entire production process.

3 Extensive Processing Know-How

With years of experience in pigment dispersion technology, we can develop unique processing methods and conditions tailored to your formulations and provide recommendations based on our expertise.

General Process for Functional Material Dispersion

■Pre-Processing



■Triple-Roll



Main Evaluation Equipment

Karl Fischer Moisture Meter
(Kyoto Electronics Manufacturing)



Digital microscope
(VHX-7000 Keyence)



Particle size distribution meter
(LA -960 V2 HORIBA)



Spectrophotometer
(MINOLTA CM-3600A)



B-Type Viscometer
(BM/BHII Toki Sangyo)



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



Differential scanning calorimeter
(DSC-60 Shimadzu Corporation)



List of Triple-Roll Equipment

Device Name	Triple-Roll Mill			
Size Inches	15	15	16	15
Use	General pigment dispersion	General pigment dispersion	General pigment dispersion	Functional Material Dispersion
Temperature Range	Heating	Cooling	Heating and cooling	Heating and cooling
	15°C to 150°C	15°C to room temperature	15°C to 150°C	15°C to 150°C
Material	Cast iron	Cast iron	Cast iron	Cast iron
Pressurized method	Hand tightening	Hand tightening	Hydraulic pressure	Hand tightening

- (Doctor) : Available in metal and resin (POM), compatible with various types
- (Additional Equipment) : Butterfly mixer, dissolver, de-iron machine, sieve
- (Examples of Contract Processing) : Dispersion of special fillers (inorganic, organic), metal powder, additives (solid to liquid), etc.
- (Examples of Application Results) : Contract processing of sealing agents for semiconductors, contract processing of dispersion of special fillers for electrical materials, etc.

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