

High Efficiency Powder Disperser

HEPD-100

NANOPERSION

"HIGH-SPEED" IMPROVED and STABLE PROCESS!

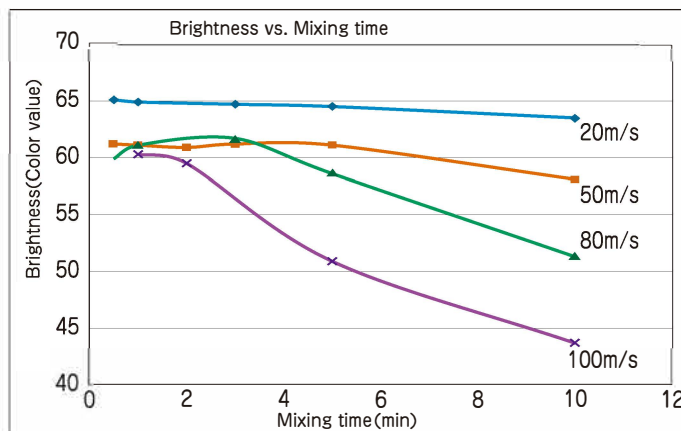
HIGH-SPEED SPEC, BETTER MIXING and
DISPERSAL DRY-MIXING for NANOSIZE PARTICLE
HIGH SHEARING FORCE, FINE GRINDING

Super-high-speed Super Mixer dispersion
effect comparison

Evaluation materials

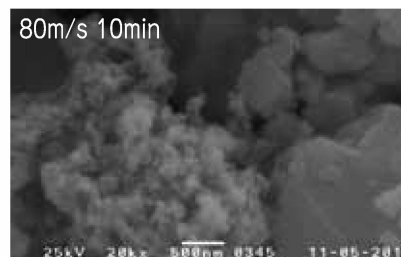
Material	Average particle diameter	(wt%) Mixing ratio
Calcium carbonate	2.7 μ m	98
Acetylene black	35nm	2

*Predetermined quantity of Calcium carbonate and Acetylene black were mixed in a super mixer with tip speed of 20m/s, 50m/s, 80m/s and 100m/s.



Evaluation method

- Brightness was measured using the colorimeter (SQ-2000/ Nippon Denshoku). **Brightness of Calcium carbonate was assumed 100%.**
- Dispersion state was observed using a scanning electron microscope (SM-200 / TOPCON)



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Specifications

Model	HEPD-100
Tank Capacity	100
Electrical Supply (Power)	AC200,220V 60Hz 3 ϕ
Electrical Supply (Control)	AC200,220V 60Hz 1 ϕ
Motor	37kw x 2P with Inverter Totally-enclosed-fan-cooled motor, Indoor type
Blade Speed	MAX.3600rpm
Rim Speed	MAX.100m/sec
Blade Shape	Special design
Tank Design (MPa)	Jacket type (Pressure resistance 0.29)
Shaft Seal	Air seal
Upper Lid Opening	Manual flip-up type with balancer
Discharge Chute	Stroke type (Air cylinder)
Material	Tank inner: SUS304 (Inner surface-Buff polish #250) Blade: SUS304 (Outer surface-Buff polish #250) Guide plate: SUS304 (Contact surface-Buff polish #250) Upper lid: SUS304 (Inner surface-Buff polish #250) Discharge chute: SUS304 (Inner surface-Buff polish #250)

Processed Samples

Ceramics

Ex. Mixing, dispersion and granulation of alumina



Metal

Ex. Coating surface treatment material on metal powder



Cosmetics

Ex. Mixing and dispersion of oily eyeliner material

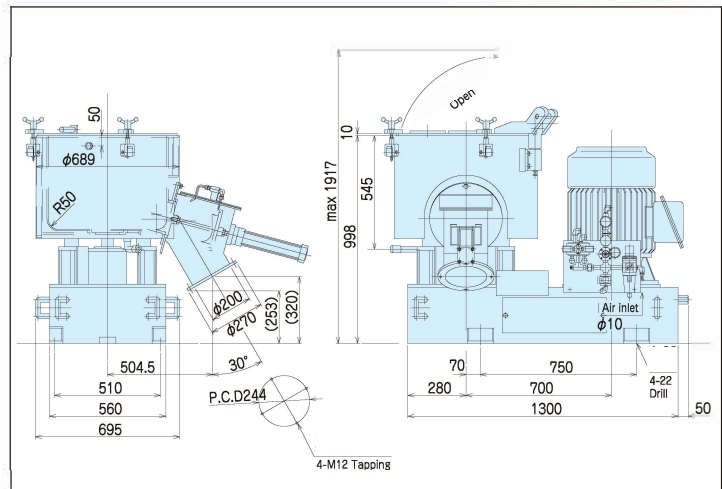


Toner

Ex. Uniform dispersion of silica



Outline Dimensions



*These specifications are subject to change without notice.

*Please read the instruction manual carefully before use.


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