# Ashizawa

PAT.P

# Dry Bead Mill with a built-in Classifier



#### **History**

Ashizawa Finetech Ltd. has been produced several machines so far, such as a dry bead mill called "*DRYSTAR SDA*" in 2008, a classifier called "*SEPA ALPHA*" in 2010. To meet various customers needs, Ashizawa has combined these two machines and has proposed Closed-circuit system called "*SDA-L system*".

In addition, combining these technologies, "*SIGMA DRY*" has been developed with its compact and simple design. *SIGMA DRY* makes it possible to dry-grind efficiently than ever. Ideal *free grinding*\* is possible by this one machine!

# **Strong Grinding**

Adopting special type of pins, strong grinding is available.

# Adopting Dispersing Device

Collect fine particle efficiently by dispersing agglomerated particles.

# **CUT Coarse Particles**

Adopting a high precision classifier, Not required to fine-tune of the shaft seal. Easy to maintenance. CUT Point dMAX= $7 \sim 10 \mu$ m

MINIMUM Setting Space **REDUCE Grinding Aid Amount** SHARP Particle Distribution **EASY Particle Control** 

Free Grinding... Be ground in a state that allows transmission of force sufficient by removing fine powder. Sometimes fines increases in the process of grinding, and it becomes the buffer that reduces the speed of grinding and grinding energy.

Your Partner for Fine Particle Technologies

**SGD12.5** 

Ashizawa Ashizawa Finetech Ltd.

# Sigma Dry

#### SIGMA DRY Unit



## Grinding Data by SIGMA DRY

Differences in particle size distribution by adjusting the amount of air flow and classifier rotational speed of SGD12.5



	Operating Co	Particle Size(µm)		
	Classifier Speed Range (rpm)	<b>Air Flow</b> (m³/min)	d50	dMAX
Raw Material	_	—	130.1	352.0
1	3,000	4	6.07	37.0
2	5,000	4	3.34	18.5
3	7,000	4	2.28	11.0
4	7,000	3	1.48	10.1

#### **Specifications**

Model	SGD 12.5	SGD 25	SGD 50	<i>SGD</i> 125	
Drive Power Mill(kW)	5.5	11	22	45	
Drive Power Classifier(kW)	3.7	3.7	5.5	7.5	
Air Flow (m <sup>3</sup> /min)	2~4	4~8	8~20	20~50	
Dimensions W×D×H(mm)	800×1300×1900	1000×1600×2400	1300×2000×3000	1400×2300×3500	
Nominal Scale up	1	2	4	10	
Chamber Material	Ceramics, Metal (Metal Only in SGD125)				

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#### **Applications**

LiB (anode, cathode), Materials for electric component, Ferrite, Various glass, Various Ceramics, Carbon, Cement, Slag, Fly ash, Abrasive, Silica, Food, etc

#### Your Partner for Fine Particle Technologies

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