

About this Journal

KONA Powder and Particle Journal is a refereed scientific journal that publishes articles on powder and particle science and technology. This journal has been published annually since 1983 and is distributed free of charge to researchers, members of the scientific communities, universities and research libraries throughout the world, by Hosokawa Powder Technology Foundation (<http://www.kona.or.jp/>) established by Mr. Masuo Hosokawa in 1991.

The Chinese character “粉” in the cover is pronounced “KONA” in Japanese, and means “Powder”. The hand written “粉” is after the late Mr. Eiichi Hosokawa, founder of the Hosokawa Micron Corporation (<http://www.hosokawa-micron.co.jp>).

About the Cover

Air classification is an important step in production of many industrial powders. Among various types of equipment, the deflector wheel classifier, where coarse particles are deflected on the outer edge of the deflector wheel and fine particles follow the air flow through the deflector wheel, is the dominant separation device for obtaining fine powders of a given size and narrow size distribution of color pigments, abrasive powders and so on. Using high-speed camera, effective particle behavior in separation process of deflector wheel classifier was analyzed at high particle loading condition focusing on the particle-particle and particle-wall collisions. In addition, the influence of process parameters such as revolution rate and mass loading on the separation efficiency was presented with the consistent theoretical model. Please read the paper on pp.172–185.



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Printing Office: Nakanishi Printing Co., Ltd., Japan

Publication Date: 10 January 2018