



AGGLOMERATION SYSTEMS

Powder engineering at its best

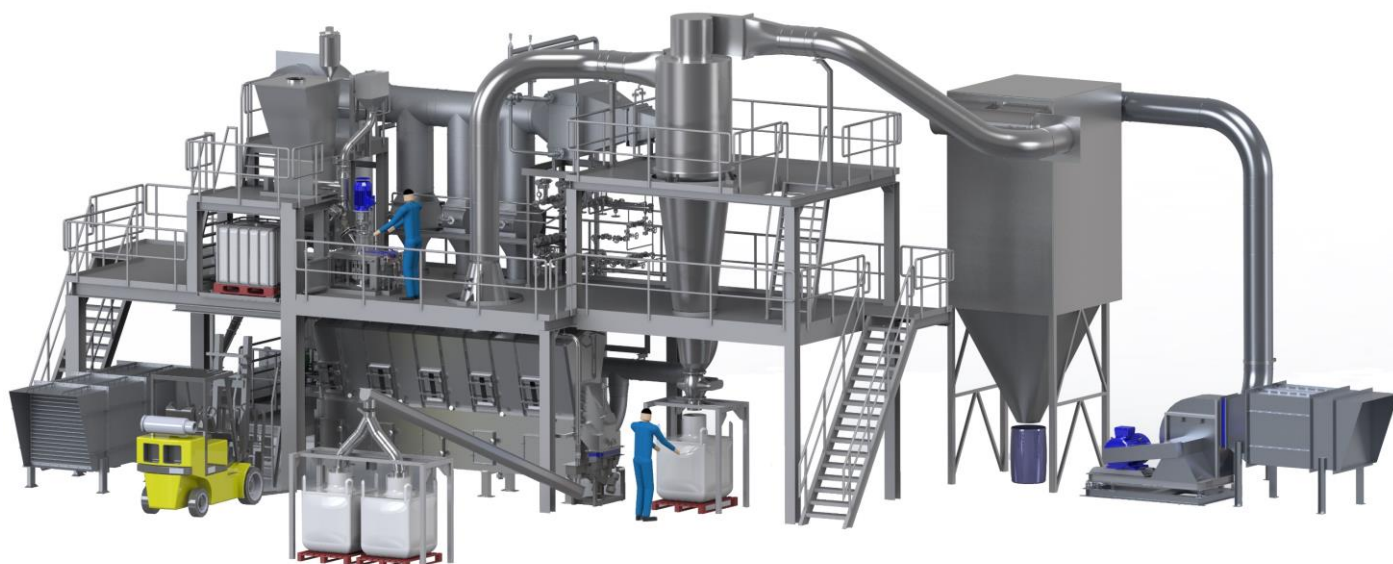


**HOSOKAWA
MICRON B.V.**

THE ART OF AGGLOMERATION

Your challenge is our motivation!

When designing an agglomeration system, it is important that agglomeration is not treated as a stand-alone process. That's why our experts work closely with your team to design an integral production concept that meets your broader needs – both today and in the future. Our approach is based around the clear definition and careful consideration of each individual process step, including storage, conveying, charging, mixing, agglomeration, drying, cooling, discharging, sieving, packing and more. This results in a tailor-made agglomeration system solution that is optimally engineered for you.



**BESPOKE
SYSTEMS**

Hosokawa Micron offers complete agglomeration systems. Thanks to our long-standing experience, we are the ideal partner to transform your agglomeration operation into a tailor-made powder processing system, from incoming base ingredients to final products.



**OVER 100 YEARS
OF EXPERIENCE**

Hosokawa Micron has been developing innovative processing equipment and systems for a wide variety of products and markets for more than a century. As a result, we can draw on an unparalleled amount of know-how when designing new systems.



**INNOVATIVE
TEST CENTRE**

Our research and testing facilities contain a fully equipped agglomeration plant. Our skilled and knowledgeable experts are available to determine the best possible system solution for your process, ensuring that all your requirements are met.



PREPARATION & DOSING

Liquid premixes can be prepared in the make-up tank and, if multiple powders need to be premixed, a live hopper or Nauta® mixer can be integrated. To guarantee a constant and accurate flow of powder and liquid, high-quality powder dosing feeders and liquid dosing systems are an integral part of the system.

AGGLOMERATION

At the heart of Hosokawa's continuous agglomeration system is the unique Flexomix mixer/agglomerator. It was developed by the Schugi company, which was later acquired by Hosokawa Micron. The Flexomix is widely used because of its reliability, simplicity, compact design and maximum process flexibility. It creates agglomerates with an open and raspberry-shaped structure.



DRYING & COOLING

In the static fluid bed dryer, the agglomerates are dried and cooled. After cooling, the product is conveyed to the product classifying section for preparation of the final product.

CLASSIFICATION & PACKAGING

After classification, the product is split into on-size, over-size and (if needed) fines material. Over-size material can be crushed and fines can be reprocessed if applicable. On-size agglomerates can be stored in big bags or transported to a final packaging line. This whole process takes place in continuous mode.



AIR TREATMENT

The performance and functionality of the fluid bed in combination with the air treatment section is an important part of the agglomeration process as this can have a direct impact on the level of agglomeration and product quality.

CONTROLS & PROCESS AUTOMATION

Hosokawa Micron's systems include optimally integrated hardware and software controls to ensure consistently high product quality under varying circumstances. We can provide ergonomic and visual HMI-PLC panels including lot traceability, operator identification, remote service, alerts and customized data reports to give you full insight into your production processes.





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