



THE HIGHEST
DEGREES OF FINENESS
EVEN FOR COARSE
AND FIBROUS
PRODUCTS



ALPINE MICROBURST AMB

Jet milling without pre-crushing



HOSOKAWA ALPINE

Process technologies for tomorrow.



- » FEEDING OF COARSE AND FIBROUS PRODUCTS
- » ALSO AVAILABLE AS A BASELINE VERSION
- » HYGIENIC MONOBLOC DESIGN

*Produce high quality products for the pharmaceutical & food industry.
Simplify your processes with the new Alpine Microbust AMB jet mill.*

MAXIMUM APPLICATION SPECTRUM

Streamlined jet milling processes, higher throughputs and optimised fineness



› *Alpine Microburst AMB
with dosing screw*

The new Alpine Microburst AMB jet mill pushes the boundaries of what was previously possible. Applications that used to be limited by the injector size and where pre-crushing was required are now easy to handle. Also coarse products can now be fed in directly. When it comes to fibrous products, in some cases the system achieves considerable increases in throughput. But that was still not enough for our development engineers: The Alpine Microburst AMB also delivers a significant increase in the degree of fineness and product quality.

The AMB is available in sizes 100, 200 and 315 and as a standardised baseline version.





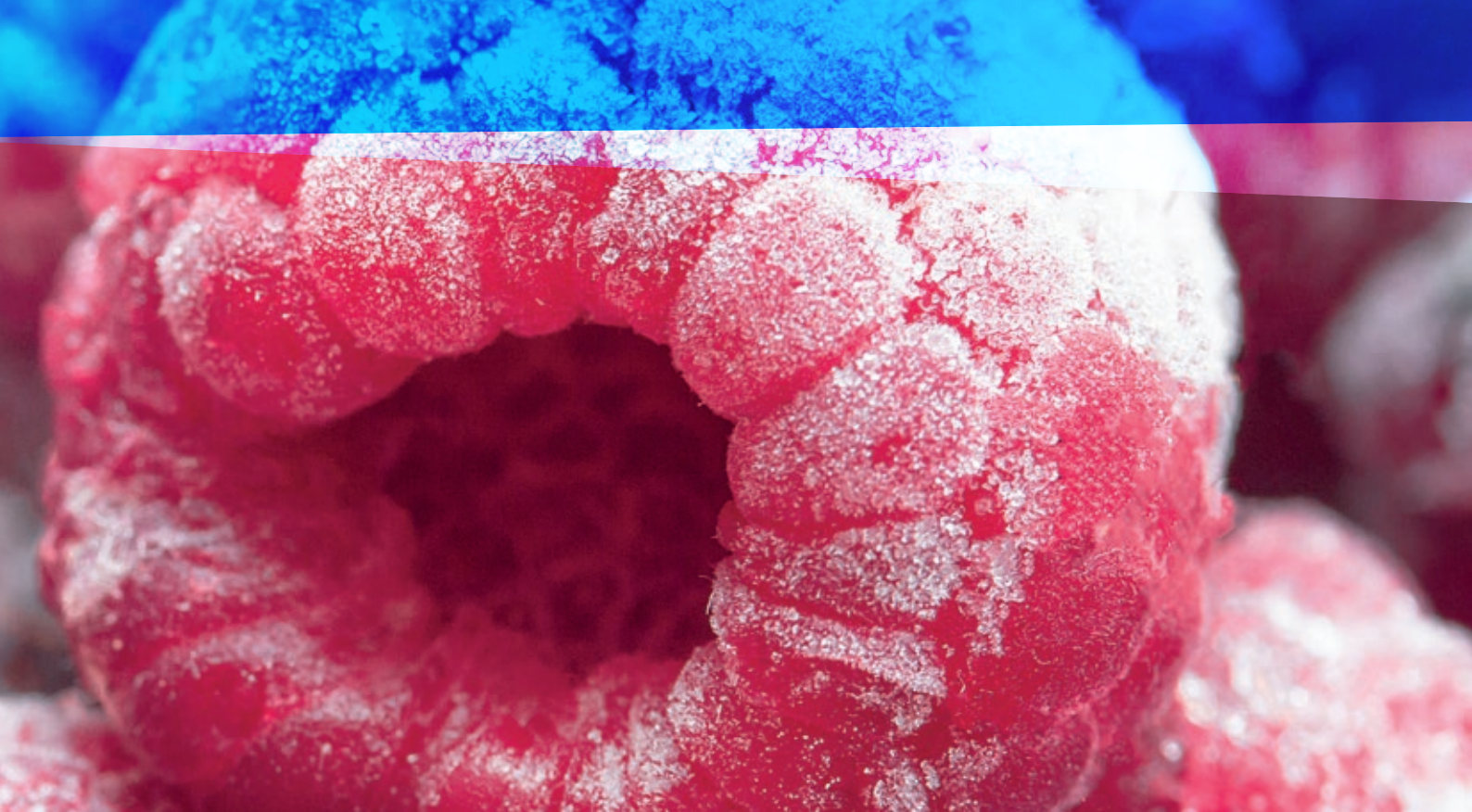
VERY HIGH DEGREES OF FINENESS

With the new Alpine Microburst AMB jet mill



WHAT MAKES THE MICROBURST SO SPECIAL?

- ▶ Ultra-fine grinding of coarse and fibrous materials without pre-crushing
- ▶ Material infeed via large feed tube without injector
- ▶ Special grinding chamber geometry for a wide product range
- ▶ Fast cleaning and straightforward disassembly
- ▶ Horizontal mill housing for handling
- ▶ Grinding chamber without rotating parts
- ▶ ATEX variant available
- ▶ High efficiency due to laval nozzles
- ▶ Stainless steel design, product-contact surfaces with a high quality of finish
- ▶ High wear protection due to ceramic components possible



» FINELY GROUND FOODS

The new AMB spiral jet mill eases the way toward the "all natural products" trend. In these products, natural flavours and colours play a decisive role in the end product. For example, by finely grinding foods that were previously difficult to break down and colour, a completely natural colouring can be achieved.



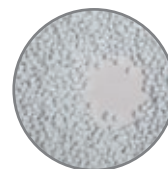
» FUNCTIONAL FOOD

The new AMB jet mill is the optimal solution for functional food products. Finer grinding during the production of functional foods improves extractability, solubility, mouthfeel and bioactivity. This is the case, for example, when it comes to fine grinding of black or green tea.



» PHARMACEUTICAL PLA/PLGA

PLA or PLGA granules, which are mainly used in medical products as a carrier matrix, can now be finely ground with the new Alpine Microburst AMB.



» ADDITIONAL APPLICATIONS

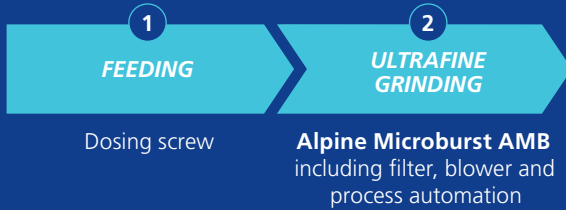
In principle, the AMB can be used wherever the grinding process has been limited by the injector. This also includes the processing of cellulose, cosmetics, pigments, cannabis or products from traditional Chinese medicine (TCM).



CONVENTIONAL PROCESS



HIGHLY EFFICIENT MICROBURST PROCESS



Until now, coarse feed products could only be processed at great effort due to the injector principle of conventional spiral jet mills. With the Alpine Microburst AMB you can significantly reduce the number of process steps, the number of machines and peripherals.

A PERFECT SYSTEM

The Alpine Microburst also as a baseline variant



» TEST FIRST – THEN DECIDE

Take advantage of this unique service and have your special system configuration tested at the **Hosokawa Alpine Test Centre** during the planning phase. More than 60 machines and complete systems as well as test laboratories at two different locations are at your disposal for this purpose. The result: You will receive a system concept developed specifically for you. **Interested? Get in contact with us!**

REFERENCE PRODUCTS

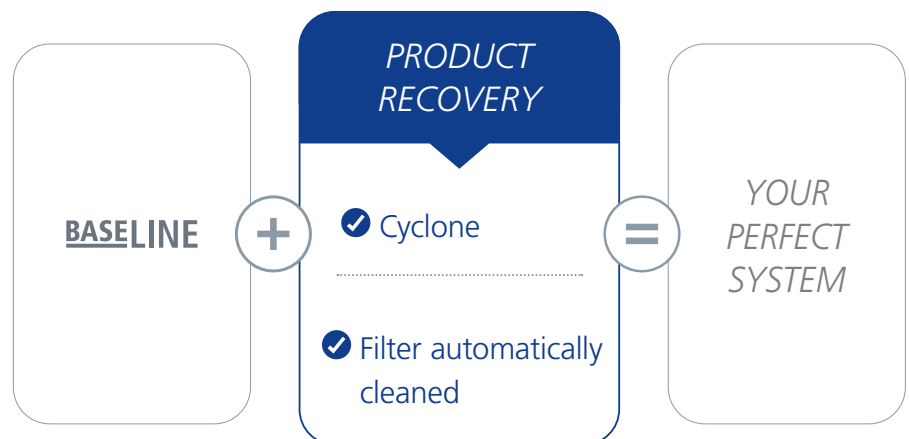
PRODUCT (FEED SIZE)	FINAL DEGREE OF FINENESS	FINAL DEGREE OF FINENESS
Limestone (1 – 2 mm)	50 % < 3 µm	97 % < 7 µm
Green tea (3 – 4 mm)	50 % < 3 µm	97 % < 10 µm
Medicinal herbs (5 – 10 mm)	50 % < 4 µm	97 % < 14 µm
Black tea (10 – 15 mm)	50 % < 9 µm	97 % < 28 µm
Rolled oats (5 – 7 mm)	50 % < 11 µm	97 % < 60 µm

Please note: Natural products are subject to natural variations. To obtain exact results, the systems must be tested with your individual products.


 Would you like to learn more about the potential of this innovative solution? Contact us at : pharma@alpine.hosokawa.com or food@alpine.hosokawa.com

» FLEXIBLE BASELINE SET-UP

The new AMB spiral jet mill is also available as a standardised baseline variant. This can be used independently and facilitates semi-automated and economical production. The baseline concept implements the technical advantages in a simple and compact design and offers an impressive user-friendly and intuitive operation. In the completely ready-to-use system with ergonomic design, all of the control elements are combined in one console.



» RENT – INSTEAD OF BUYING

Renting saves equity capital and preserves liquidity margins. Stay financially independent and protect your credit line. Whether for a few days or several years, with Hosokawa Alpine's rental offer you are always on the safe side. Benefit from our constantly growing rental equipment and rent your system directly from the manufacturer.

Any questions? Contact us now!



HOSOKAWA ALPINE

Process technologies for tomorrow.

HOSOKAWA ALPINE AG

Peter-Doerfler-Strasse 13–25
86199 Augsburg
Germany

Pharma

📞 +49 821 5906-269

✉️ pharma@alpine.hosokawa.com

Food

📞 +49 821 5906-406

✉️ food@alpine.hosokawa.com

www.hosokawa-alpine.com



Subject to change without notice.

All information in this brochure is purely informative and non-binding.

Our offers are decisive for the order.

© Hosokawa Alpine 2023.

Printed in Germany.

0236-EN-2023-08_Alpine_Microburst_AMB