



STARCH FLOURS – POTATO, GRAINS & PULSES

Ultra-fine grinding of native and modified starch for various applications



HOSOKAWA ALPINE

Process technologies for tomorrow.

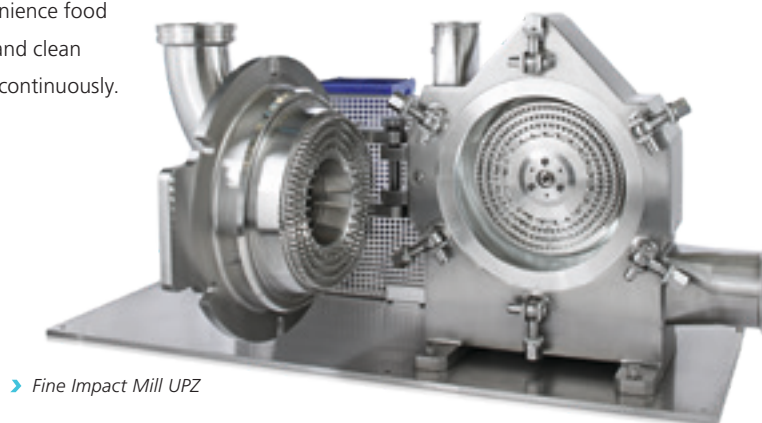
DRY PROCESSING OF NATIVE AND MODIFIED STARCH



Starch, mainly gained from wheat, pulses or corn has a firm place as a traditional product in the starch processing industry. It finds its use as a food ingredient in various applications because of its thickening and stabilizing properties. The baking and convenience food industry, as well as manufacturers that run with the trend of plant-based and clean product ingredients increase their demand for native and modified starch continuously.

HOSOKAWA ALPINE OFFERS DIFFERENT TECHNOLOGIES TO PROCESS NATIVE AND MODIFIED STARCH:

- **Grinding** – deagglomeration of starch and grinding to a uniform product
- **Ultra-fine milling** – combination of milling and classification for a steep particle size distribution



➤ Fine Impact Mill UPZ

PROCESS STEPS OF STARCH PRODUCTION

For a uniform application, the dried starch particles must be ground to a fine powder. Dependent on the raw material and customer requirement, either the Fine Impact Mill UPZ with its changeable milling elements or a classifier mill is used.

Starch powders with a precise top cut and a steep particle size distribution are processed by high-precision classifier technology combined with an ultra-fine grinding mill. The classifier mills Zirkoplex ZPS and ACM reach particle sizes <30µm because of high rotational speeds and an integrated classifier wheel.

Because of its high fineness, starch powder is a high explosive material. Hosokawa Alpine offers their plants conform to ATEX regulations for your guaranteed production safety.

As our customer, we give you the opportunity to run trials at our ALPINE Test Center in Augsburg, so we can give you precise recommendation how to achieve the product characteristics you are looking for.



YOUR APPLICATION

➤ Wheat

➤ Corn

➤ Potato

➤ Pea

➤ Rice

➤ Manioc



Hosokawa Alpine also shows long time experience in the construction of high technology mills for processing starch powders and mixers for the paper and packaging industry.