



## PRESS RELEASE

### Hosokawa Alpine Sugarplex SX makes Sugar Shelf-Stable through Conditioning

**Augsburg, 7th July 2020** –Hosokawa Alpine presents a new solution for the industrial conditioning of sugar: the Sugarplex SX. The tendency of freshly ground, amorphous icing sugar to absorb moisture in conventional grinding systems can lead to the formation of lumps during storage. Therefore, an additional process step is made necessary during downstream processing. Thanks to the new integrated sugar conditioning unit, the improved Sugarplex SX is perfectly equipped to prevent this: "The targeted regulation of the atmosphere inside the mill serves to shorten the recrystallisation time and completely recrystallised icing sugar is then discharged from the mill. This saves the downstream process steps which have been necessary up to now", explains Dr Ergün Altin, Senior R&D Manager at Hosokawa Alpine.

#### **Control of the ambient atmosphere permits sugar conditioning**

With the integrated sugar conditioning process, a conditioned ambient atmosphere is created during the grinding process inside the Sugarplex SX mill, whereby the defined moisture content of the air favours the recrystallisation of the freshly ground icing sugar. This serves to stabilise the crystal already in the mill and thus to prevent the premature, spontaneous clumping together during storage which may occur with conventional grinding systems. In conventional production processes, additives such as starch or phosphate are added in order to bind the moisture with the sugar and thus prevent such blockages. With the Sugarplex SX, this is unnecessary, as is the additional process step in which the sugar needs to be finely re-ground after storage.

**HOSOKAWA ALPINE Aktiengesellschaft**

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As a result of the new process developed by Hosokawa Alpine, the benefits for our customers are clear: continuous operation of the system without an additional conditioning step leads to high efficiency. Elimination of the mixing bin saves space and reduces costs. And the end product is high in quality, has a high storage stability and is free from additives.

**Figure 1:** With the Sugarplex SX, Hosokawa Alpine presents a new solution for the industrial conditioning of sugar.

## **Hosokawa Alpine**

Hosokawa Alpine is an innovative leader worldwide in machine and system engineering and has its headquarters in Augsburg and a branch in Leingarten (Baden-Württemberg). The company also has several subsidiaries at home and abroad. The core competence of Hosokawa Alpine is on the one hand the manufacture of machines and systems for processing powders, granules and bulk materials as well as the manufacture of systems for producing and processing blown film in our film extrusion division. The company has a total of around 800 employees and generated an annual turnover of some 211 million euros in fiscal year 2017/2018. The export quota of the company is around 80 per cent. The company has been a wholly-owned subsidiary of the Japanese Hosokawa Micron Corporation since 1987.