



Live screw bottom for flake ice - 10681



Specifications

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- Material: All manufactured in 1.4301/AISI-304. Wherever possible 2B plates are used
- Execution: Welded 100% and acid pickled after welding
- Planetary gear boxes used - Good solution for high torque/low speed requirements
- Manufactured with displacement elements inside the screw bottom in order to avoid "dead" volumes
- The live screw feeders were checked and FAT approved before delivery from BEMA

Additional Information:

House:	Through
Industry:	Food industry
Applied steel in product:	Stainless steel
Product type:	Screw conveyor
Surface treatment:	Stainless steel – acid pickled
Transported material:	Bulk material



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Short Description

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Live screw bottom designed for flake ice and manufactured afterwards in BEMA. The application is the bottom of a silo containing the daily use of flake ice in a fish production factory. The silo receives flake ice from the ice machines which can fill the silos during the night. The system is afterwards able to supply the factory with flake ice during the day, without requiring a large amount of ice machines to fulfill the daily demand.

Why is a live screw bottom a suitable solution for handling flake ice?

1. Flake ice can easily make bridge building. The complete coverage of screw feeders in the live screw bottom avoids this.
2. The live screw bottom has the possibility to secure a precise dosing of flake ice, which is required in the production facility
3. The live screw bottom ensure that all flake ice is transported out of the silo making it hygienic by its design

In this application the screw feeders deliver the flake ice to a transportation screw in the middle of the bottom. This means that this screw conveyor acts as a dosing screw conveyor, because it is 100% filled.

Placing the outlet screw in the middle of the live screw bottom has also the advantage:

- It is emptying of the silo without building a material layer to the outlet end
- The layer in the silo has an equal level

Which other types of bulk material is suitable for a live screw bottom?

1. Wood chips
2. Wood pellets
3. Powder with a light degree of stickyness

See another BEMA live screw bottom solution here

Designing a live screw bottom requires experienced engineering knowledge. In BEMA we have our own design department with engineers and technicians with long years of experience of designing screw feeder bottom applications. Before making the final layout of the storage system with a screw bottom, we recommend to contact us.