



# Bin with inclined screw conveyor - 15753



## Specifications

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- Material: Manufactured in stainless steel 1.4301 (AISI-304)
- Execution: All welding 100%, acid pickled after welding
- Diameter of screw rotor: Ø330
- Manufactured including supporting legs - ready to be installed on-site
- Manufactured in industrial quality

#### Additional Information:

House:	Bin
Applied steel in product:	Stainless steel
Industry:	Waste handling
Product type:	Screw conveyor, Silo / bin
Surface treatment:	Stainless steel – acid pickled
Transported material:	Bulk material, Minerals



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### Short Description

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Bin with inclined screw conveyor for intermediate storage of salt to be filled into salt spreaders during winter campaign. The application is completely manufactured in stainless steel to avoid corrosion from the salt.

The bin is relatively large, and there is a built-in hat over the screw rotor to avoid material pressure on the auger.

The bin solves to functions:

1. It is a temporarily storage of salt
2. It transport the salt to a higher point

Since salt in this condition is easy flowing, the bin is manufactured with positive angles. There is a single screw conveyor in bottom. This is enough to transport the salt out of the bin.

## What to consider, when you design a bin with a screw conveyor

1. Flowability of the product – is a single screw rotor enough to empty the bin?
2. Is there a risk for bridge building?
3. If there is a risk for bridge building consider a live screw bottom

### Other example of a bin with a lifting screw conveyor

#### Example of live screw bottom

BEMA has many years of experience in designing different types of bins and hoppers in combination with screw conveyors. Every case has to be considered, and requires experienced engineering to make a good and workable solution.

Besides the material consideration you should also look for:

- What is the physical size of the complete bin with a screw conveyor
- How shall the product be transported to the final site
- Is it necessary to separate the bin in different parts for easier transportation possibilities

BEMA can assist in these questions. We always recommend that you contact BEMA as early as possible in your planning process.