



Bin with swivel screw conveyor - 15520



Specifications

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- Material: All housing manufactured in 1.4401/AISI-316. Acid pickled after welding
- Screw flights are manufactured in Hardox steel (wear resistant)
- All welding 100%
- Designed as an off-shore application for a rough environment
- BEMA has made the complete design followed by manufacturing
- Complete enhanced documentation delivered with the project

Additional Information:

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



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Short Description

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Bin with swivel screw conveyor manufactured to store drill cuttings for distribution to transport containers.

The bin is a part of a complete transport system:

- Storing the cuttings intermediately
- Further delivery to transport containers
- Transport containers to be taken on-shore for further treatment

Main challenge in the project

1. Design of the swivel screw
2. Finding a solution for safe handling when the swivel screw is turned
3. Finding a solution for combining the swivel screw with the bin

The swivel screw conveyor is inclined. To feed the swivel screw it is necessary to have a horizontal screw conveyor in the bottom of the bin. The swivel screw conveyor is supported in a single vertical point in which it can turn app. 120°.

In this solution the bin has 3 different functions:

1. Storage of material
2. emptying to the swivel screw via a horizontal screw conveyor
3. Inclined transport to transport containers in different positions

All functions are solved by 3 independant components:

- The bin
- The horizontal extraction screw conveyor
- The inclined swivel screw

The independant components ensure a failure proof and very reliable solution.

See another example of a swivel screw conveyor [here](#).

Bin design in combination with screw conveyors require skilled engineering to be succesfull. BEMA has engineering expertice to assist in the initial design phase. We recommend that you contact BEMA as soon as possible when the project is under planning. BEMA has solved different projects with swivel screw conveyors which you can find here on our web-site.