



# Live bottom screw feeder with bin - 19324



## Specifications

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- Material: All manufactured in carbon steel and painted to a customer defined RAL-code
- Screw rotors: Ribbon screw flights since the material can be sticky
- Gear boxes: Planetary gear boxes used due to a low speed - app. 2 RPM/min
- Chain coupling used between the gear box and the screw feeder
- The top covered with grating. The material is loaded from the top of the bin through the grates
- The bin is app. 10 m3

#### Additional Information:

Product type:	Screw conveyor, Silo / bin
Industry:	Offshore
Transported material:	Bulk material
Applied steel in product:	Carbon steel
Surface treatment:	Carbon steel – painted



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### Short Description

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The live bottom screw feed is manufactured to transport mud waste received in the harbour from rigs off-shore. The mud is via the live bottom screw feeder transported to containers for further treatment on-shore to clean it from hydro carbon elements.

## What is the advantages of the live bottom screw feeder bin?

1. The complete coverage of screw feeders in the bottom of the bin avoid the possibility for bridge building of the material
2. By controlling the gear boxes with frequency inverters, it is possible to control the flow rate out of the bin with high precision
3. The live bottom bin can handle a variety of the incoming material. The flow rate can be controlled and ribbon screw flights take care of the sticky material

BEMA has designed the complete system. It begins with the live bottom screw feeder bin, and continues with a number of transport screw conveyors. The final destination are containers for further treatment on-shore in a recycling plant.

During the design phase BEMA has supervised the end customer with different screw conveyor features to come up with the best possible solution for the application.

Designing of live bottom screw bins require more engineering compared to standard screw conveyors. The designing process need to be in close cooperation with the final end user to clarify all relevant information regarding the actual solution. BEMA has the experience to undertake such tasks in cooperation with the customer.

## Example of bulk material, where live screw feeder bins are used:

- Wet starch
  - Flake ice
  - Wood chips
  - Powder that needs to be taken out of a silo with precision flow rate
- See another BEMA project for a live bottom screw feeder [here](#)