



Bin with horizontal screw conveyor - 18817



Specifications

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- Material:
- The bin is manufactured in carbon steel and painted to a customer defined color
- The screw flights are manufactured in HARDOX steel to avoid wear
- Manufactured including supports ready to be installed on-site
- Delivered including gear box and driving parts
- BEMA has made the complete design

Additional Information:

| | |
|---------------------------|----------------------------|
| House: | Bin |
| Industry: | Recycling |
| Applied steel in product: | Carbon steel, Hardox plate |
| Product type: | Screw conveyor, Silo / bin |
| Surface treatment: | Carbon steel – painted |
| Transported material: | Bulk material, Minerals |



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Short Description

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Bin with horizontal screw conveyor manufactured for recycled material. The size of the bin is approximately 12 m³ with screw a horizontal screw rotor in the bottom. When designing this type of bin, it is important that the material do not bridging. If there is a risk of bridging you shall look for live screw bottom – [see an example here](#).

Advantage of having a horizontal screw conveyor in the bottom of the bin

- The screw conveyor can be used as a dosing screw rotor
 - By adding a frequency inverter to the electrical motor, you can control the output
- In the actual case the bin acts as a plain storage for recycled material. It is emptied when it is filled checked manually by the production employees.

What to consider when designing the bin?

1. The size of the bin
2. The rate in which you want to empty it
3. The flowability of the product
4. The abrasivity of the product

In this case BEMA has manufactured the screw rotor with HARDOX screw flights. This increases the life time of the screw rotor, if the material is abrasive.

Other examples of a hopper with a horizontal screw conveyor

BEMA has many years of experience in designing bins with screw conveyors. A good design requires respect for the engineering, because there are more parameters to take into consideration.

We recommend you to contact BEMA as early as possible in the desing process to get the best possible result.