

Screw conveyor with storage bin - 34508



Specifications

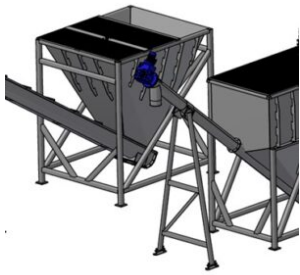
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2 pcs. screw conveyors with storage bin

- Material: Carbon steel painted in RAL 5010, stainless steel 1.4301 acid pickled after welding
- Gear box placed at the outlet - optimal position compared to placement in the bottom
- The bearing in the bottom is closed to ensure a completely tight solution
- Manufactured with frames to support the storage bin
- The screw conveyor is separated from the bin via a flange connection - easier transport to the final customer

Additional Information:

Applied steel in product:	Carbon steel, Stainless steel
House:	Bin, Pipe, Through
Industry:	Recycling
Product type:	Screw conveyor, Silo / bin
Surface treatment:	Carbon steel – painted, Stainless steel – acid pickled
Transported material:	Cablewaste



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Short Description

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Project with 2 pcs. 3 m³ silos with extraction screw conveyors.

- One silo manufactured in carbon steel

- One silo manufactured in stainless steel/1.4301 because it is water filled and act as a clarifier

The screw conveyor with storage bin manufactured in carbon steel is used as an intermediate storage for recycled parts. The stainless steel bin with screw conveyor is acting as a classifier – The screw conveyor takes slowly parts out of the bin after they have been cleaned by the water in the tank.

A double horizontal screw conveyor is a part of the project for further transport of the waste material

The solution is manufactured for a cable recycling plant, where the different crushed cables are sorted into specific fractions. The screw conveyor with bins are part of the internal sort and transportation.

The screw conveyor is bolted to bin via a flange connection. This makes it more efficient to transport over long distances.

What is the benefit to use a bin with a screw conveyor?

1. The screw conveyor is a well known method for transporting the material
2. You can completely close the screw conveyor and avoid dust and other environmental issues
3. It is easy to maintain and have very few moving parts

The design of a storage bin with a screw conveyor really depends on the actual application.

What to consider when you plan a storage bin with a screw conveyor?

1. The size of the bin
2. How you want to fill the bin
3. How shall the bin be supported?
4. Shall the bin and screw conveyor be optimised for easier transportation?
5. The friction of the material – is there a risk of bridging?
6. The delivery point outside the bin
7. The empty rate of the screw conveyor?

Before contacting BEMA we recommend that you consider these questions and make a small sketch for us. This will make the design phase much more efficient, and ensures that the main details of the solution have been clarified from the beginning.

Other examples of BEMA solutions of screw conveyor with storage bin:

Bin with Horizontal screw conveyor in the bottom

Stainless steel bin with an extraction screw conveyor

Bin with a rotatable screw conveyor