



# Live screw conveyor bottom for rough sawdust - 12530



## Specifications

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- Material: All manufactured in carbon steel
- Surface treatment: Painted to a customer defined RAL-code
- Silo manufactured with inspection hatches
- Explosion proof hatch at the top - ATEX requirements
- Standard hollow shaft gear box used for the screw feeders
- Spherical roller bearings used for the screw rotor feeders

### Additional Information:

Product type:	Screw conveyor
Industry:	Power plants
Transported material:	Biomass
Applied steel in product:	Carbon steel
Surface treatment:	Carbon steel – painted



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### Short Description

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BEMA has delivered a complete project with a live screw conveyor bottom for rough sawdust:

1. 100 m<sup>3</sup> silo
2. 15 m<sup>2</sup> live screw conveyor bottom

### Key features of the live screw conveyor bottom:

1. The 4 pcs. screw feeders take material out to both sides of the bin. The reason is to have an equally level inside the silo during emptying
2. The live screw bottom can deliver a constant material flow rate out of the silo.
3. The live screw conveyor bottom is designed to 40-150 m<sup>3</sup> material flow pr. hour.
4. The silo top was manufactured in sections for easier installation on-site.
5. The screw feeders have been design with a gradually increased pitch towards the discharge end. This results in uniform material extraction.

Designing of a live screw conveyor bottom requires engineering capabilities. Each application is unique

### What to consider during design:

- Type of material to handle
- Transport capacity out of the screw conveyor bottom
- Required torque/power to run the live screw feeders
- How to fill the silo and how to handle the material from the live screw bottom
- What kind of documentation that is needed
- How to install it on-site

BEMA has engineering capabilities to assist in clarification of the application. We can based on the agreed design manufacture the application and deliver it to the customer side. When designing live screw conveyor bottoms, you shall always consider how to transport it to the final customer destination. In this process also how you want to install it on-site.

**Similar application for a live screw conveyor bottom.**