



# Live screw feeder bottom for potatoes - 23800



## Specifications

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- Material: Manufactured in 1.4301/AISI-304
- Execution: All welding 100%, acid pickled after welding
- Standard hollow shaft gear boxes used on the extraction screw feeders
- Spherical roller bearings used to carry the extraction screw feeders
- Delivered full size to the end destination at the customer location

### Additional Information:

Product type:	Screw conveyor, Silo / bin
Industry:	Food industry, Process industry
Transported material:	Bulk material
Applied steel in product:	Stainless steel
Surface treatment:	Stainless steel – acid pickled



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## Short Description

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100 m<sup>3</sup> silo equipped with a live screw feeder bottom. The application is a potato inlet to a starch factory. The silo is used for dosing the potatoes to the potato rasps at the beginning of the starch processing line.

The live screw feeder bottom is able to deliver a constant flow rate to the potato rasp. This ensures a correct feeding through the hole starch manufacturing process.

## Function of the screw feeder bottom

- The potatoes are filled in the top and drawn out in the bottom
- The bottom has 4 screw conveyors – each 500 mm. in diameter
- The bottom screws deliver the potatoes to 4 transportation screws that move the potatoes to the potato rasps

## Information of the application

- The silo is supported by a HEB-450 support beam that is put onto a system of load cells
- The bottom screw feeders are designed specially to sit in a heavily loaded bin – the bottom is re-inforced with steel plates
- BEMA has solved all tasks including design, static calculations, manufacturing, transportation and assistance during installation and test run

Designing and manufacturing of a live screw bottom requires experienced mechanical engineering. BEMA has these skills, and we have over the years manufactured various live screw feeder bottoms.

Below are three examples of live screw feeder bottoms manufactured by BEMA:

**Screw feeder bottom for flake ice**

**Screw feeder bottom for wood chips**

**Screw feeder bottom for oil cuttings**

You can always contact BEMA during your planning process for a live screw bottom. We will be able to assist in the design and manufacturing.