

Sorting systems



SORTING EQUIPMENT

Borins manufactures a number of different machines for sorting of recycled fractions and other material.

In order to meet customer needs, the sorters use different techniques to move the specific material as cost efficient as possible.

The machines are designed according to customer requirements in terms of size and volume management.

We also produce smaller houses where sorting is carried out and various types of trummel mixers.

MODELS

- Disc sorter with stair design for sorting of paper fractions.
- Vibrating screens for sorting of finer materials.
- Trummel sorters of different sizes for soil, bark and ash sorting etc.
- Sorting house built in steel frame for outdoor use with built-in heat.
- Trummel mixers to mix different kinds of materials in a rotating drum.

Sorting systems

DISC SORTER

Product description

Disc sorter SL-1600T3 is made with a staircase design and is used in larger plants for sorting recycled material consisting of paper fractions.

In the first part of the sorter, rubbish and gravel are sown. In the second and third parts of the sorter newspapers are removed. The final material consists of corrugated cardboard.

The sorter consists of three sections with sorting discs of steel. The sorting discs are mounted on axes that are in line, angled at 23°.

The axles in each section are connected to a gear motor via chains. Section 1 consists of four axes, section 2 and 3 has seven axes each.

The sorting discs consist of two types: 98th round with a diameter of 600mm and 86th oval with a measure of 600x400mm. The discs are provided with teeth.

Three engines drive 18 axes through heavy chains. The chains have self-tensioning devices.

The disc sorter is easy to maintain and the bearings of the axles are lubricated at a number of fixed lubrication points.



Disc sorter SL-1600T3

Benefits

- Large capacity of approx. 15-20 tons / hour.
- Sturdy construction.
- Easy and cheap to maintain.
- High-quality gear gear motors.
- Can be connected to existing conveyers.

VIBRATING SCREENS

Product description

Vibrating screen SK-1500 is part of a series of sills for sorting finer fractions of material.

The machine has a very sturdy construction and can be customized in different widths and lengths.

The screen has 30/13 loopholes and has a shaft powered by a 7.5 kW gear motor.

The screen surface is 3400 x 1270 mm and the clearance height is 500 mm.

The machine is mounted on a tripod and is usually angled around 105 degrees.



Vibrating screen sorter

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TRUMMEL SORTER

Product description

Trummel sorter TS is a series of trummels in different sizes for soil, bark and ash sorting etc.

The sorting of the material is done in a rotating drum where all the fine material passing through the mesh hole falls out underneath the ground or on a conveyor belt.

The sorter can be fitted with a top mounted brush for self cleaning of the drum.

The drum is available in three fixed lengths: 7 m, 9 m or 13 m, but can be manufactured in the customer's chosen length.

The hole size in the mesh can be customized.



Trummel sorter

Benefits

- Three fixed lengths.
- Can be easily transported on a hooklift.
- The hole size in the mesh can be customized as the customer demands.

SORTING HOUSE

Product description

The Sorting houses are manufactured for outdoor use and is constructed with a bearing frame and metal columns.

The walls are reinforced with sheet metal where the conveyor belts must go through. The doors are built in steel and are fireproof.

The windows are connected and can be opened.

The heating system consists of electrical elements and hot air units for the incoming fresh air.

Underfloor heating provides a pleasant ground heat and increases the comfort.

Stairways and walkways for escape routes are included.

All electrical installations inside the house are plugged in a cabinet with extra space for connecting conveyors.



Sorting house

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TRUMMEL MIXER

Product description

Trummel mixers are used to mix specific material fractions such as: bark, ashes and sludges with a certain dry matter content. The fractions are mixed in a large drum.

The fractions are emptied into the feed and the drum rotates slowly to mix the material.

The material is then moved out of the drum at the front if the right angle of the drum is aligned.

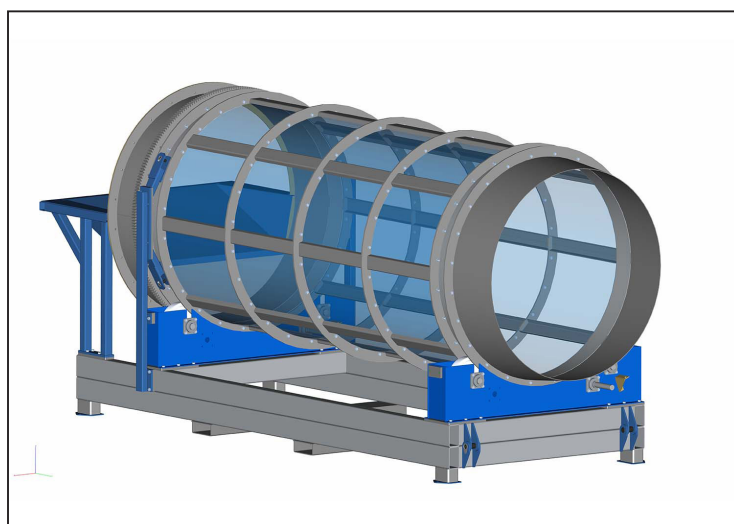
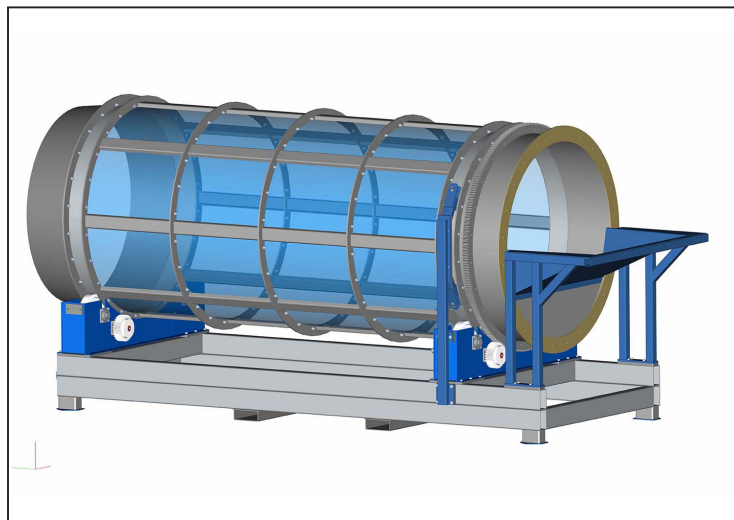
The drum rotates with the help of a drive engine on the upper frame.

The machine consists of four main parts: lower frame, upper frame, drum and input funnel.

The frames are linked at the front and can be raised and lowered in order to get the right drop of the fractions in the drum.

Construction

- Diameter on drum up to 2000 mm.
- Lengths according to customer's demands.
- Drive engine from known engine suppliers.
- Approved emergency stop solutions.



Trummel mixer

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