

Push Floor

Optimum Discharge Machine for Rectangular Bunkers



Saxlund International offers a wide range of bulk handling equipment including silo systems with discharge machines. All of this is designed for difficult non free flowing bulk solids and is therefore mainly suitable for the cement industry, timber and wood board industries as well as for sludge cake handling in the water industry and indeed many other industries worldwide. The basis of your trust is our knowledge and experience which has been generated over many years.

The Saxlund Push Floor

The Push Floor is an discharger design by Saxlund International for square and rectangular bunkers. It is designed to function with non free flowing and difficult to handle bulk solid materials. The flat bottom floor concept gives many advantages and the Push Floor can be used in a number of different configurations to suit the client' s particular requirement. This discharge device ensures a reliable material discharge, an exact dosage and allows the storage of large volumes.

Function

The push floor consists of hydraulically driven push floor ladders, which move alternately over the bottom of the bunker. Due to the movement of the ladders arranged in parallel, the bulk material is pushed from the bunker floor into a discharge screw or into other downstream conveyors. The desired dosage from the bunker is either by screw or by the Push Floor ladders themselves.

Complete Service

Saxlund International offers a complete service from engineering and manufacturing of silo equipment to commissioning and world-wide after-sales service. Our in-house quality control ensures the consistent quality of all plants.

Reliable and versatile

The Push Floor discharge machine can be used in a number of different configurations. Installed on the bottom of a rectangular bunker, the bulk material is reliably pushed from one side of the bunker towards the discharge device. If the material is to be transferred through a discharge opening into one or more screws or a solids pump, the bulk material is additionally conveyed into the middle of the bunker. Due to the versatility of the sliding floor, it can be used for dosing tanks, underground bunkers and large outdoor storage areas.

Materials handled

The Push Floor is particularly suitable for heavy and moist bulk materials such as wood chips, sawdust, waste mixtures and bark. But also tires, waste fractions, rubber waste, sludge and other heavy flowing materials can be easily carried out.

Design Possibilities

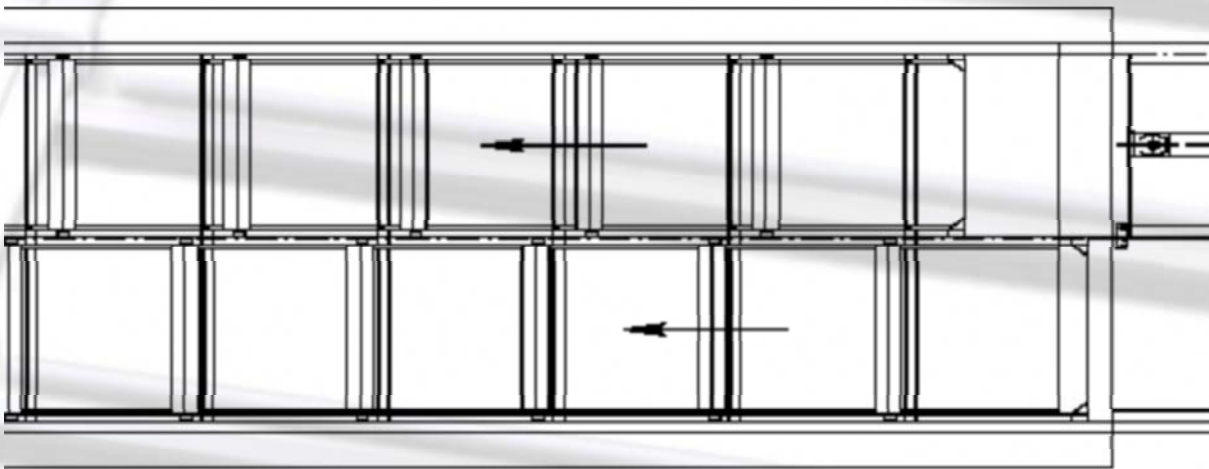
The original Saxlund International Push Floor discharge machine is built in lengths of more than 20m and any width since any number of pusher frames are possible. The maximum economic storage capacity is generally about 1500 m³. The Push Floor system is modular so extra pusher frames can be added later if required by the client. The Push Floor can be retro fitted into the client's existing bunker to overcome bridging problems. The silo or bunker can be constructed from steel concrete or plastic.

Advantages

- Effective and simple operation
- Exact dosage
- Flat bottom bunkers are cheap to manufacture
- Flat-bottomed bunkers guarantee a maximum storage volume
- Low maintenance
- Complete systems from a single source

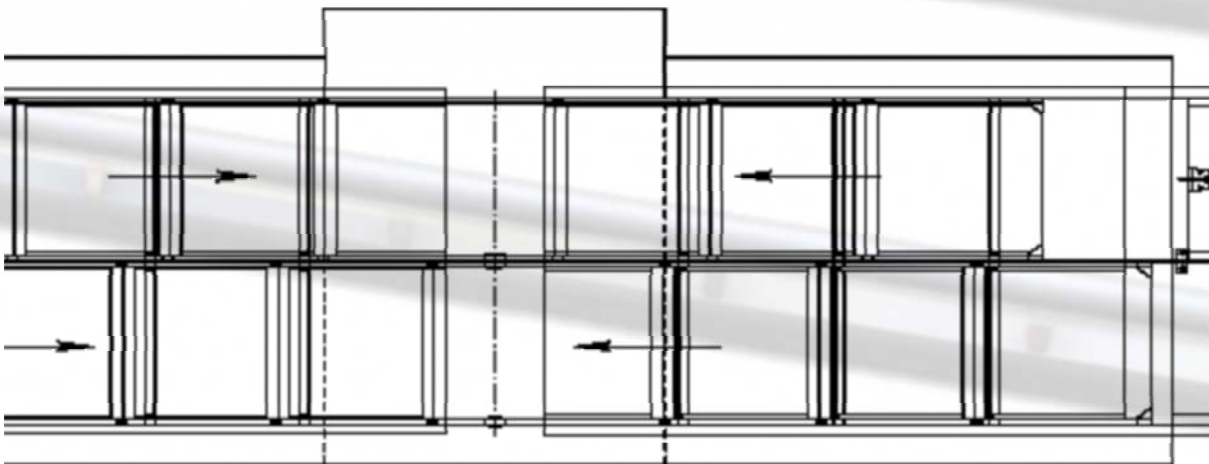
Push Floor Type SB

suitable for granular, difficult, non free flowing bulk solids e.g. wood chips, recycled wood, bark, plastic pieces.



Push Floor Type SZB

suitable for sludge cake applications



The Push-Pull Floor Ladders

The ladders convey material to the openings in the bunker bottom in both directions. The bevelled side of the SZB rungs moves below the material, the vertical side conveys the material. The SZB ladders are powered by double-acting hydraulic cylinders mounted outside the bunker. If an end position, e.g. is not reached by jamming a foreign body, a pressure switch switches the cylinders of the Push-Pull Floor.



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