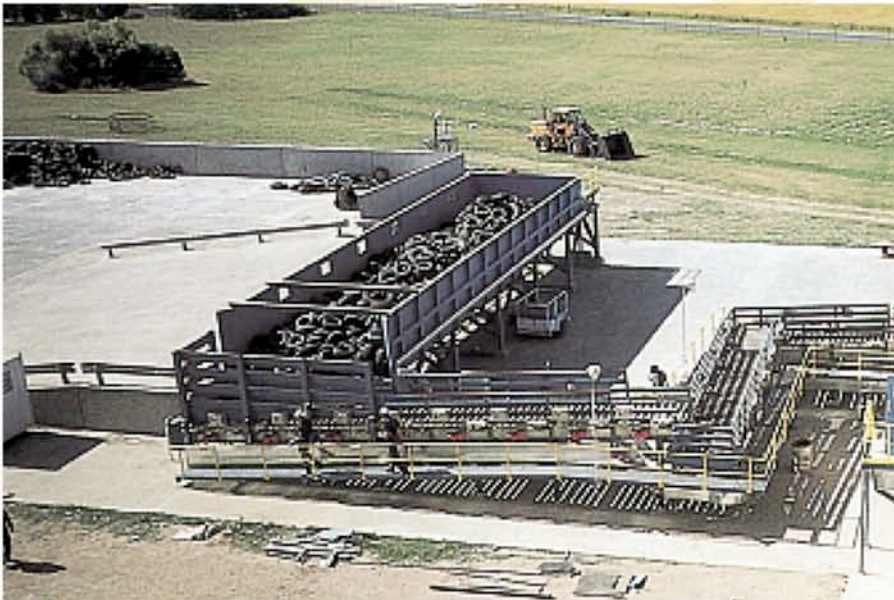




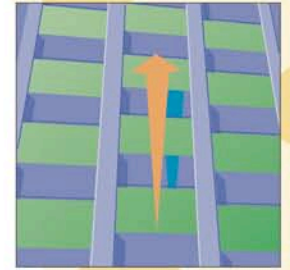
PUSH FLOOR:

Optimum Discharge Machine for Rectangular Bunkers

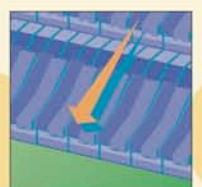
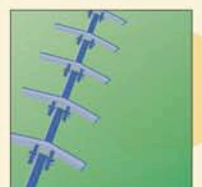
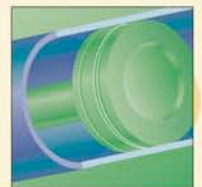
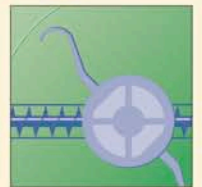


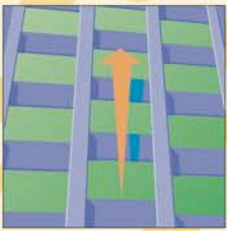
Saxlund International offers a wide range of bulk handling equipment including silo systems with discharge machines. All of this is designed for difficult non free flowing bulk solids and is therefore mainly suitable for the cement industry, timber and wood board industries as well as for sludge cake 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.



Push Floor





The Saxlund Push Floor



Discharge Machine for Rectangular Bunkers

The Push Floor is an 'original' 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. Reliable

discharge and accurate metering can be achieved on demand.

Function

The Push Floor is driven by a hydraulic system that moves a number of parallel pusher frames or 'ladders' in reciprocating motion across the bunker flat floor. As it does so it digs the stored bulk solid material from the bunker and delivers it to a screw conveyor or other machines. Either the screw or the pusher frames themselves perform the required metering function from the bunker.

Reliable and versatile

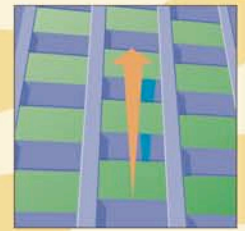
The Push Floor discharge machine can be used in a number of different configurations. It can be used in the bottom of a square or rectangular silo or bunker. It can be used to push the material to one end of the bunker or to pull it to the other end. It can also push and pull the material to the centre of the bunker where there can be either one or several screws, solids handling pumps etc. It is then performing as a rectangular version of the Sliding Frame machine. The Push Floor can also be used as a 'drive in, tip and leave' machine or indeed as a stock-pile reclaimer.

Materials handled

The Push Floor discharger is especially suitable for handling heavy, wet and generally non-free flowing bulk solid materials.

Complete Service

Saxlund International offer a complete service including the design and construction of the silo through to the commissioning. We furthermore have our own 'in house' controls division.



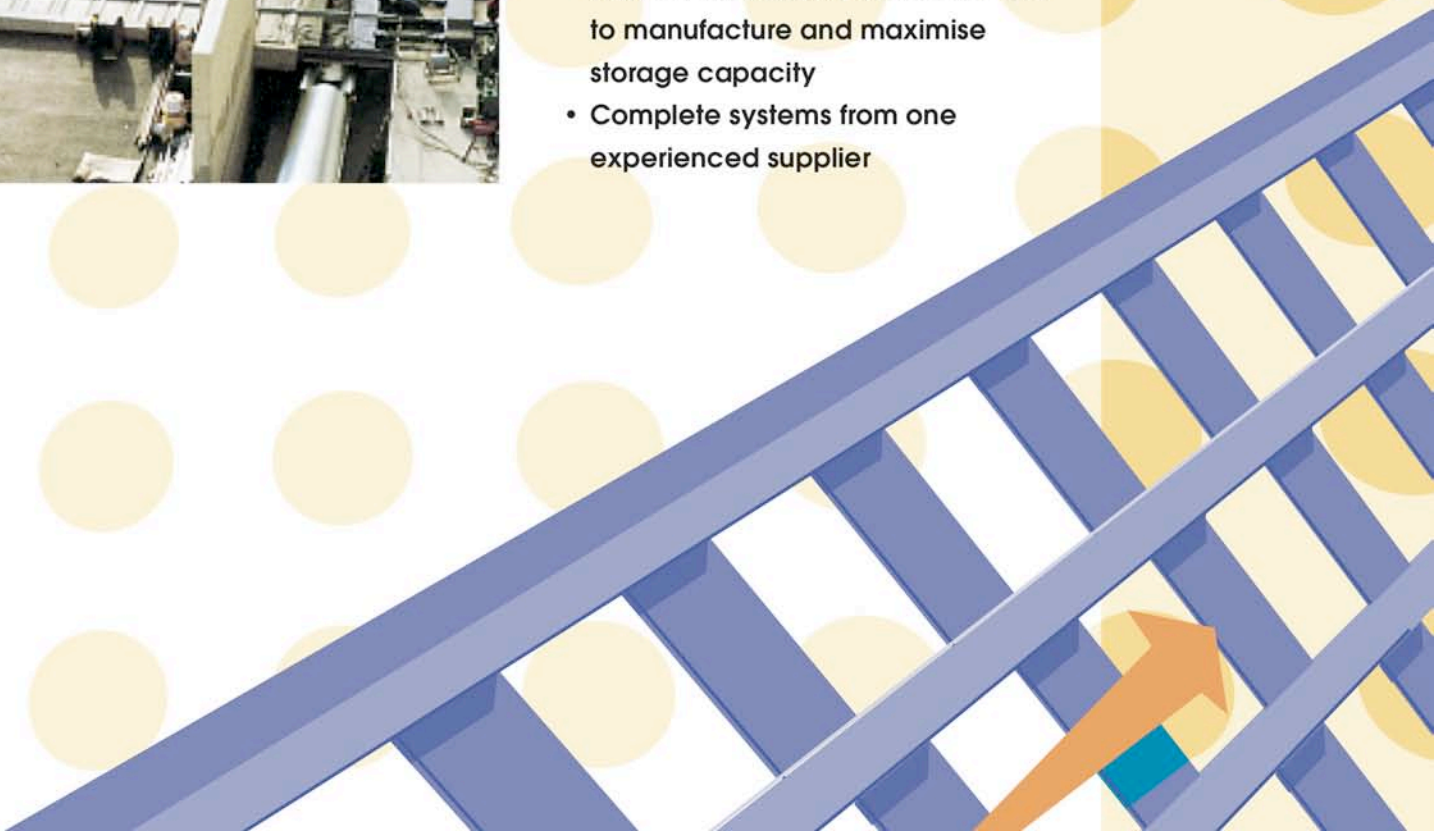
Design Possibilities

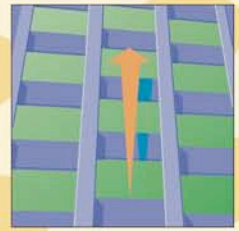
The original Saxlund International Push Floor discharge machine is built in lengths up to 20 m and any width since any number of pusher frames are possible. The maximum economic storage capacity is generally about 1500 m³. The Push Floor system is modular so extra pusher frames can be added later if 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.



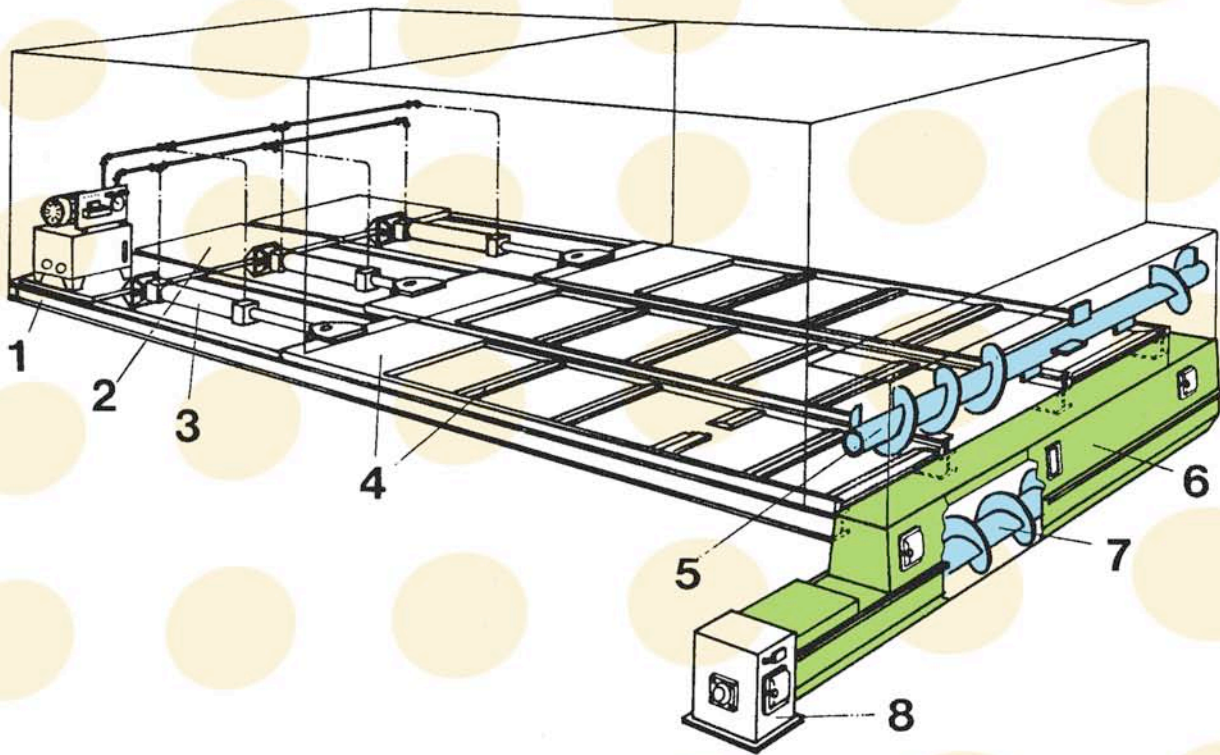
Advantages

- Effective and simple operation
- Low maintenance costs
- Accurate metering
- Flat bottom bunkers are economic to manufacture and maximise storage capacity
- Complete systems from one experienced supplier



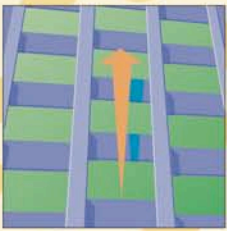


Push Floor type SB suitable for granular, difficult, non free flowing bulk solids e.g. wood chips, recycled wood, bark, plastic pieces etc.



- 1. Hydraulic power pack
- 2. Cylinder mounting plates
- 3. Hydraulic cylinders
- 4. Pusher elements

- 5. Levelling screw
- 6. Fall chute
- 7. Discharge metering screw
- 8. Discharge head

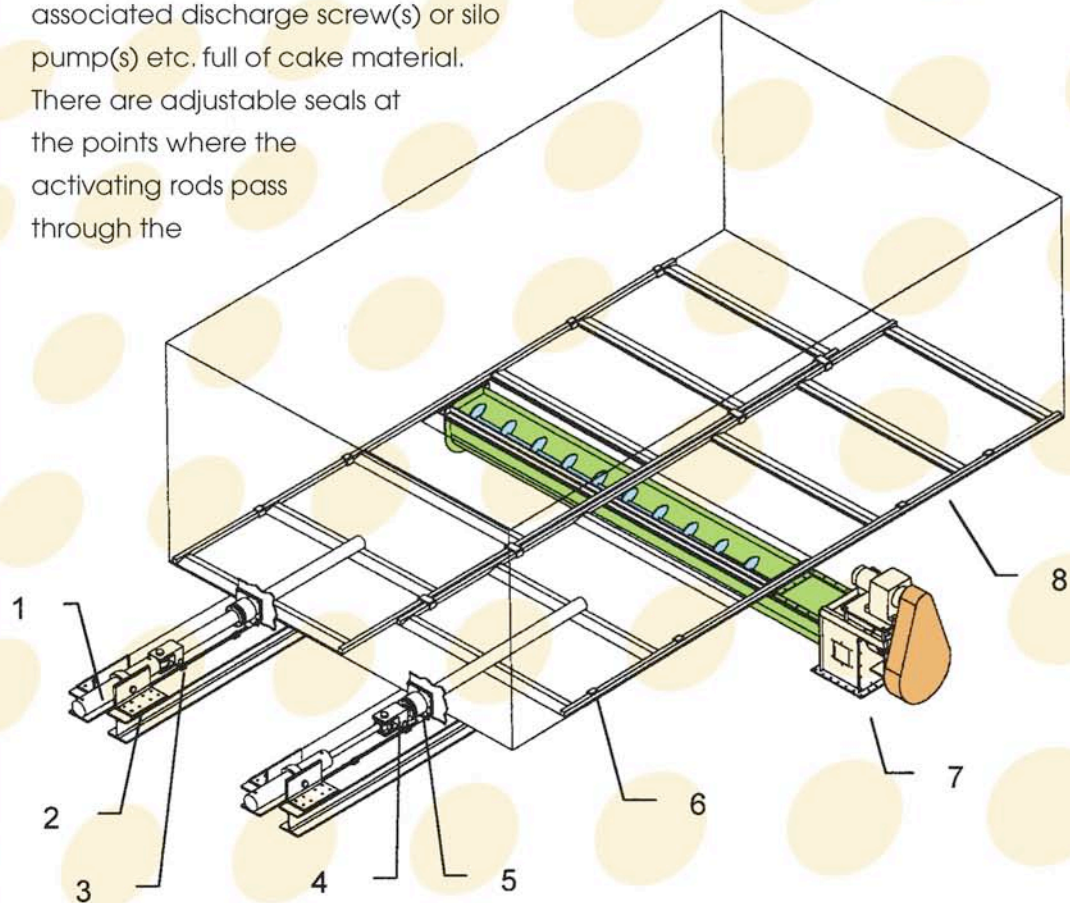


Push Floor type SZB suitable for sludge cake applications

The Push Floor elements are installed on the floor of the bunker and constrained by guides. These special Push-Pull elements are driven by double acting cylinders and a hydraulic system. As they reciprocate, their action creates 'mass flow' in the bunker and moves the stored material towards the discharge slots(s) in the bunker floor thereby maintaining the associated discharge screw(s) or silo pump(s) etc. full of cake material.

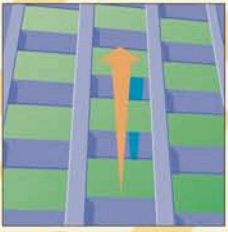
There are adjustable seals at the points where the activating rods pass through the

bunker wall as in the Sliding Frame silo. Pusher element reciprocation is maintained by stroke end sensors plus an emergency pressure switch should a foreign object enter the bunker and prevent either element reaching its stroke end. The Push Floor is a simple, cost effective and robust, low maintenance discharge machine.



1. Hydraulic cylinders
2. Cylinder mountings
3. Stroke end switches
4. Cylinder clevis

5. Adjustable stuffing box seal
6. Pusher element guides
7. Screw discharge head
8. Push Floor elements



Truck reception bunker in pit showing safety grid

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