

SLIDING FRAME:

Optimum Discharge Machine for Flat Bottom Circular Silos

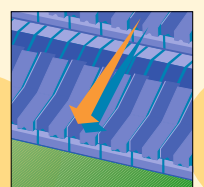
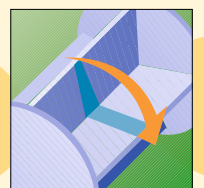
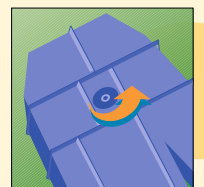
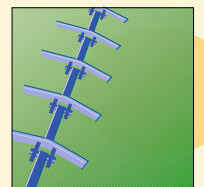
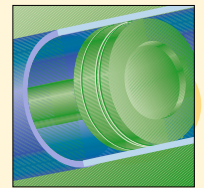
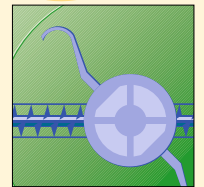
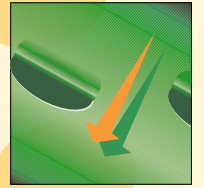
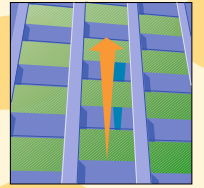


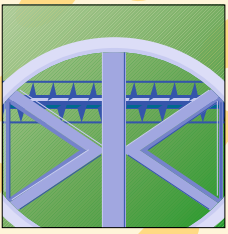
Saxlund International offers a wide range of bulk handling equipment including silo systems with discharge machines. All of this is designed for difficult non free flowing bulk solids and is therefore mainly suitable for the cement industry, timber and wood board industries as well as for sludge cake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



Sliding Frame





The Saxlund Sliding Frame



Truck loading silo
for sludge cake

Function

The Sliding Frame is driven by a hydraulic system that makes the Frame reciprocate slowly across the silo flat floor. As it does so it digs the material from storage and at the same time delivers it into a screw or screws situated beneath the silo floor. The screw or screws are thus maintained completely full and are therefore able to meter the material at the desired rate into the process etc.

Reliable, safe and economic

The energy consumption with the Sliding Frame discharger is considerably lower than with most other systems. The minimum amount of energy is used to move the material from silo storage to the process. The parts within the silo are subjected to very little wear and it is possible to maintain the machine from outside the silo – even with the silo full.

Uses with sludge cake

There are generally three main areas where the original Saxlund Sliding Frame silo is used for sludge cake. The first is for cake reception where tipper vehicles deliver the material into a plant. The second is for buffer storage and meter feeding directly to a particular process such a dryer or incinerator and the third is for storage prior to onward transport by road-truck loading.

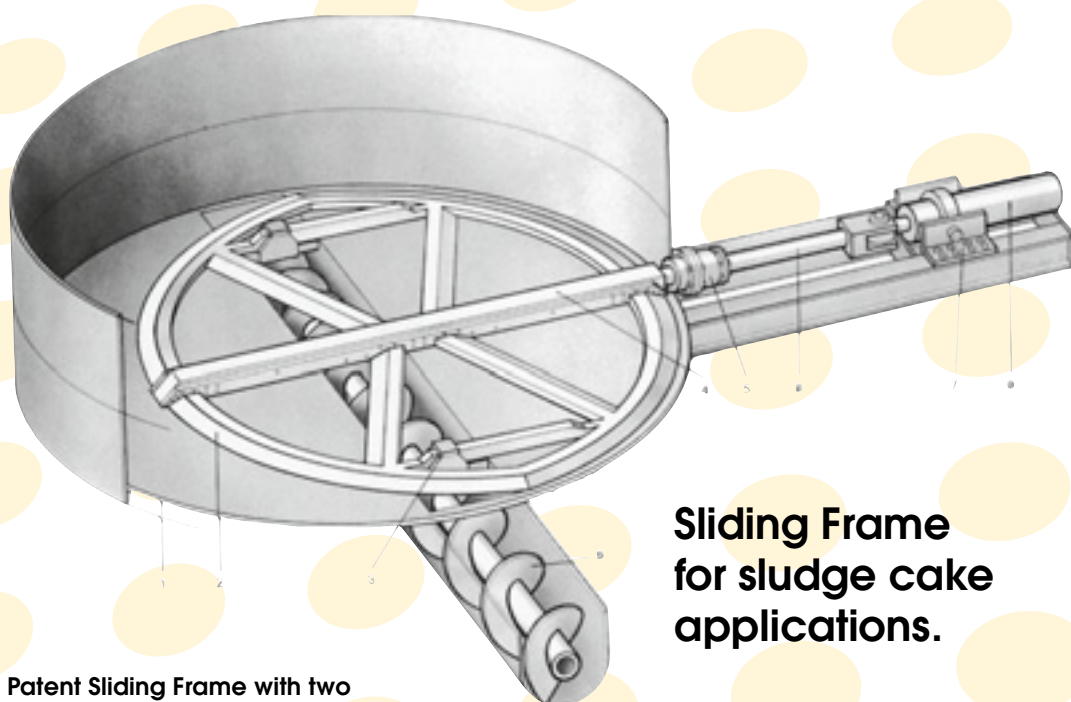
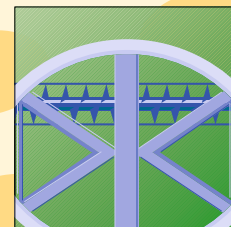
Complete service

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 Sliding Frame discharge machine is built in diameters from 2.5 m up to 12 m and with silo capacities from 5 m³ up to 2,500 m³. The Sliding Frame can be retro fitted into the client's existing silo to over-come silo bridging problems. The silo can be constructed from steel, concrete or plastic.



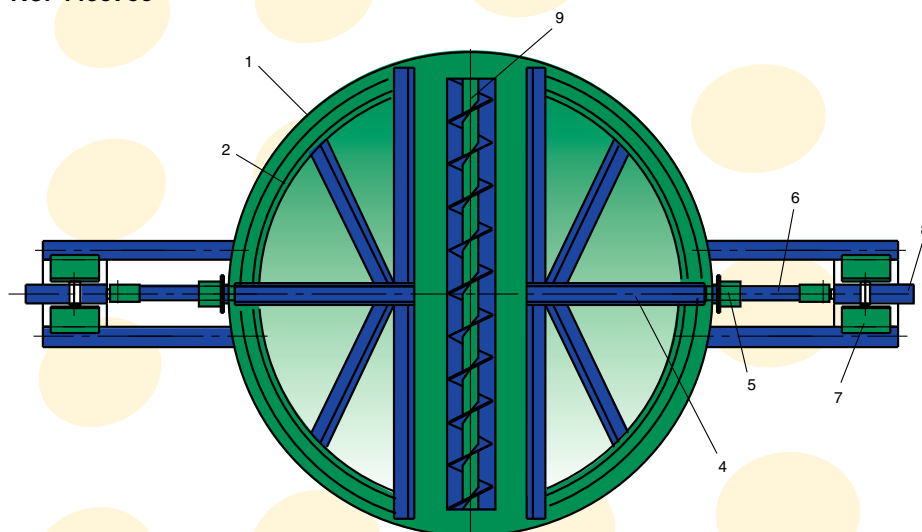


Patent Sliding Frame with two moveable elements
Pat.-No. 4403986

Sliding Frame for sludge cake applications.

Legend

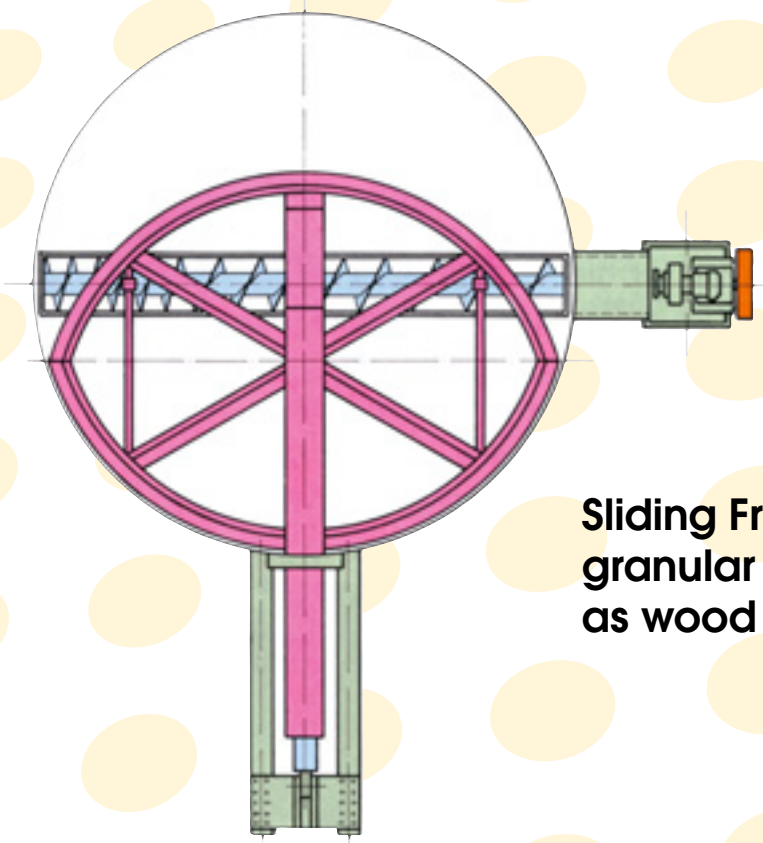
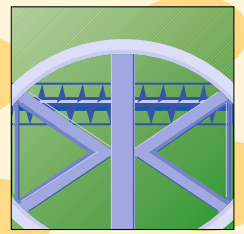
- 1 Silo bottom
- 2 Sliding frame
- 3 Frame guides
- 4 Central spine
- 5 Stuffing box
- 6 Connecting rod
- 7 Cylinder mounting
- 8 Hydraulic cylinder
- 9 Metering screw



The Sliding Frame is an 'original' discharger design by Saxlund for flat bottom circular silos. It is designed to function with non free flowing and difficult materials such as dewatered sludge cakes. The flat silo floor concept gives many advantages such as the maximum possible sized discharge openings. The Sliding Frame discharger creates 'mass flow' within the silo even with these difficult materials. The client can be sure of achieving accurate discharge and metering of the stored material on demand no matter what the application.

Advantages

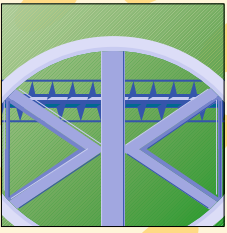
- **Completely enclosed - no odour**
- **Effective and simple operation**
- **Low power consumption**
- **Low maintenance costs**
- **Accurate metering**
- **Flat bottom silos are economic to manufacture and maximise storage capacity**
- **Complete systems from one experienced supplier**



Sliding Frame for granular bulk solids such as wood materials.



Installation of tandem Sliding Frame for wood material in 6000 mm diameter silo during silo construction.



3 Decades of experience with our Silo & Bunker discharge systems.

All of our discharge machines were invented by us and are continuously developed by our team of dedicated engineers. They are all designed to give optimum results while using the minimum of energy with the most robust construction offering long life and low maintenance costs even under the most arduous operating conditions.

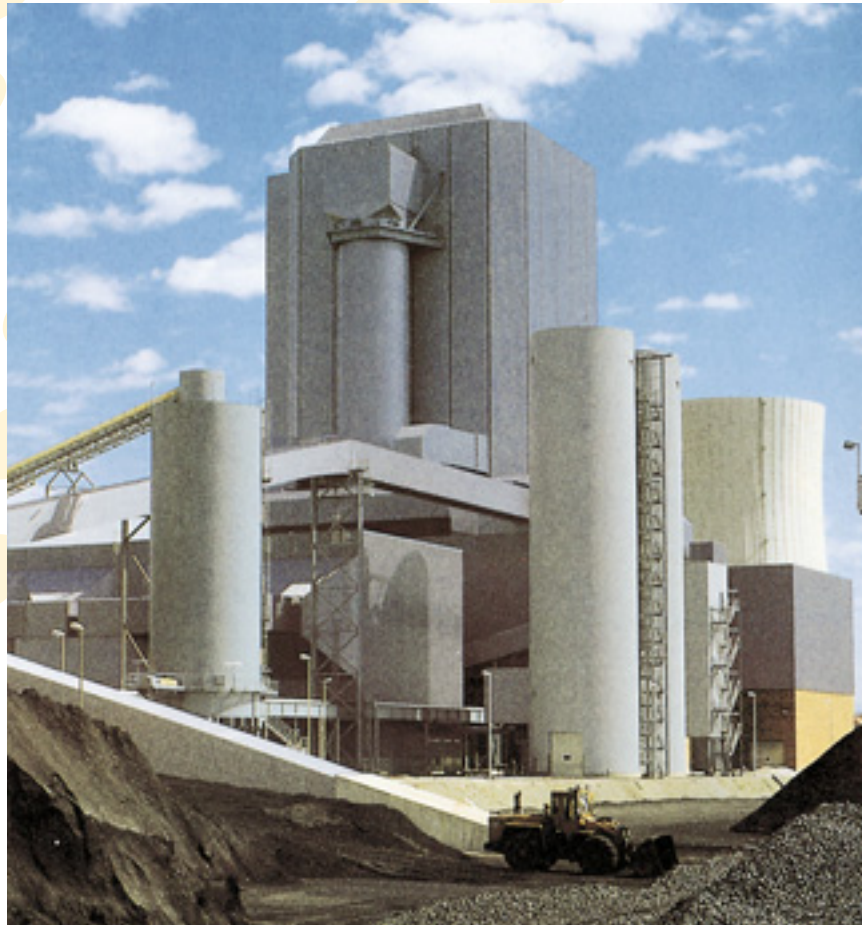
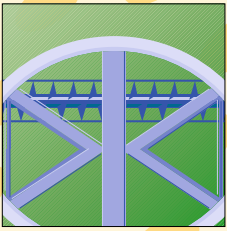
Advantages:

- Low energy consumption
- Low maintenance costs
- Very low wear - slow moving
- Excellent maintenance access
- Highest possible availability



By utilising our knowledge and experience with complex discharge screw geometry, silo shell mounted deflector plates and Sliding Frame activators

(patent), we can offer reliable discharge of critical bulk materials such as wet wood shavings and flakes.



Conveying, storage and
loading installation for
flue gas desulphu-
risation gypsum

References: more than 700 installations in Europe!

Further products for silo and
conveying technology:

- Saxlund Solids Pumps
- Saxlund Push Floors
- Screw conveyors
- Elevators
- Rotors
- Troughed chain conveyors
- Rotary valves
- Tubefeeders
- Control systems

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