

TubeFeeder®

For Energy Efficient and Continuous
Transport of Bulk Materials



Saxlund International offers a wide range of bulk handling equipment including the TubeFeeder® bulk material reclaim system.

This system is designed for the continuous discharge of bulk materials from rectangular bunkers, large diameter silos, and open-air stockpiles.

The TubeFeeder® gently handles wood chips and cutting commonly found in the wood products and paper industry, as well as other types of non free flowing bulk materials.

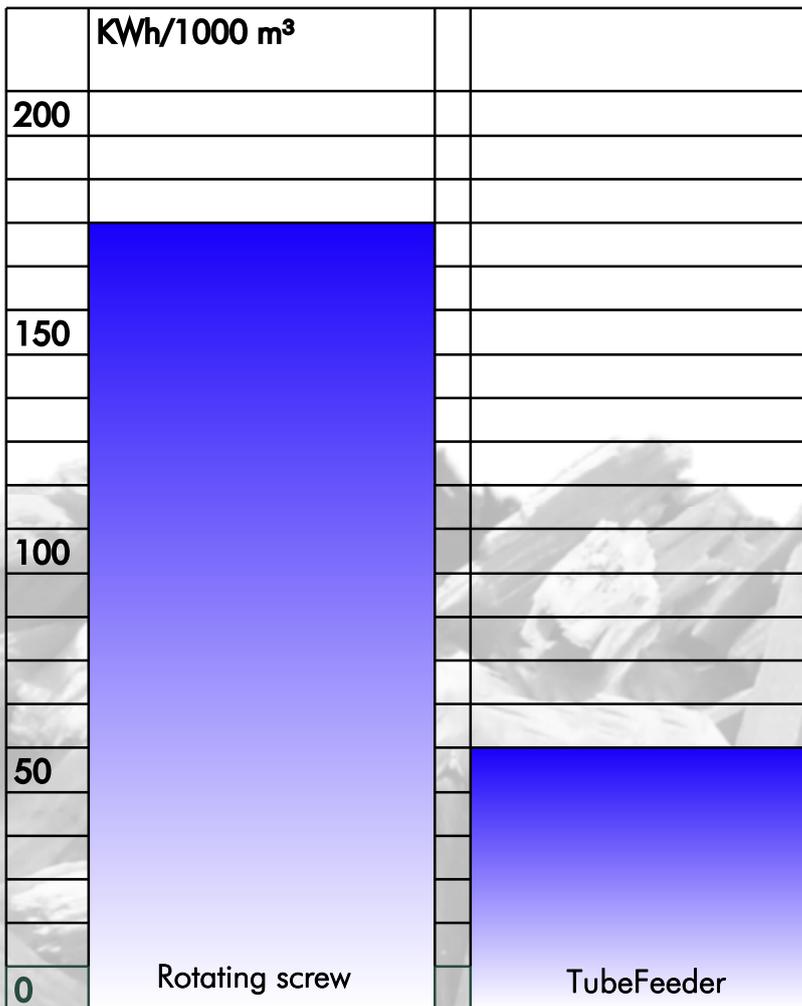
Saxlund International is a diversified engineering, design, and fabrication company, supplying materials handling and energy systems to industrial and municipal clients throughout the world.

For more than 50 years, Saxlund Int. has been developing the „know how“ and experience necessary to solve challenging materials handling problems.

The basis of your trust is our knowledge and experience which has been generated over many years in this industry.

Low Energy Consumption

Energy Efficient and Continuous Transport of Solid Bulk Materials. The TubeFeeder® is designed to provide continuous, high-volume reclamation of bulk materials. The system is energy efficient consuming as little as 25% of the power needed for traditional exposed screw reclaimers. It also provides for gentle handling of the materials and can be installed in flat bottomed bunkers and silos with large spans and diameters, in addition to open air stockpiles. The TubeFeeder® is well suited for processes that require a high level of accuracy; it offers a superior solution for industries that place exacting demands on efficiency and performance of their materials handling processes.



The diagram shows the potential for reducing the energy consumption when using a TubeFeeder® compared to a rotating screw under the same working conditions.

The TubeFeeder® is also characterized by high discharge accuracy. In short, it allows for better process control. The TubeFeeder® consists of a driven tube with evenly spaced openings. In the pipe, the screw conveyor is mounted, which is shielded by the pipe. The bulk material passes through openings in the tube as the tube is rotating and transport the material to the end of the tube. By using the tube, the TubeFeeder® has clear advantages over conventional systems. Since the tube "floats" practically in the material, there are also no loads from the bulk density of the product, especially to no deflection. This allows larger plant dimensions. Moreover, this process does not generate any shear stress - the energy consumption is extremely low.

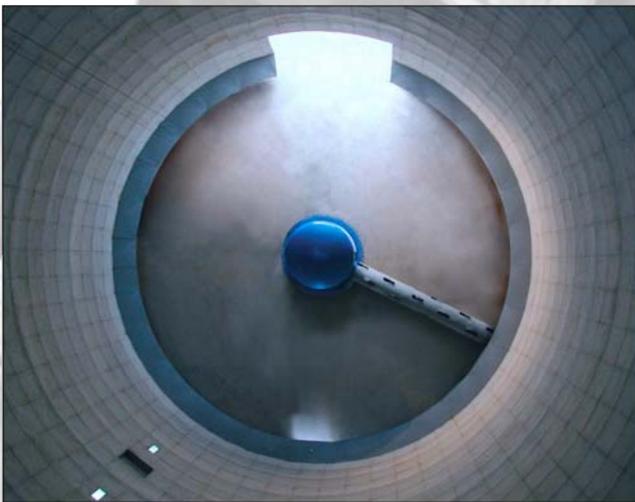
Highest availability

The TubeFeeder® can be installed in round or rectangular bunkers or silos. With a round arrangement, the material discharge takes place in the center of the silo or warehouse.

The uniform discharge of the material takes place over the entire length of the tube. The material is already mixed during transport in the pipe. This achieves the greatest possible homogenization. The discharge capacity can be easily and precisely changed by simply adjusting the speed of the pipe. Different material qualities can be mixed by using two TubeFeeders®, which work on the same discharge conveyor. Another possibility is a TubeFeeder®, which receives the material from two separate sections.

The advantages of TubeFeeder® at a glance:

- Low energy costs
- Less wear
- Less maintenance
- Larger discharge
- Long service life
- Adjustable discharge quantity
- Mixing
- High accuracy
- Uniform discharge
- Gentle material treatment
- Homogenization of the material



The mixed material can be fed directly to the processing without further treatment.

For further details and information please contact our engineering department.



The TubeFeeder® can be installed in round and rectangular outdoor storage areas and silos.



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Products for silo and conveying technology:

- Saxlund Sliding Frames
- Saxlund Push Floors
- TubeFeeder®
- Saxlund Rotors
- Saxlund Solids Pumps
- Trough Chain Conveyors
- Screw Conveyors
- Elevators
- Rotary Valves
- Combustion Plants
- Control Systems
- Trailer Docking Station

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