

PURE EFFICIENCY: SLUDGE CONVEYANCE WITH THE TUBE CHAIN CONVEYOR

Moving wet sludge or adhesive products from A to B constitutes a major challenge for mechanical conveyors and pump systems. We have taken on this challenge and have optimized our tube chain conveyors for the purpose of transporting such materials. Smooth surfaces achieved through high-quality manufacturing methods, material pairing using a variety of stainless steels, and special materials for the discs facilitate problem-free transportation.

CUSTOMIZED CONVEYOR SYSTEMS

Because sludge comes in many different ways! And, therefore, the conveyor system from Friedeburg is technically customized to perfectly match the corresponding bulk material. There are lots of different types of sludge in the various industries: e.g. sewage sludge or shredded waste in waste management facilities, coffee grounds or meat pulp in the food industry, applesauce or pomace in the beverage industry, wet ash or biomass in power plants, and much more.

All of these products have different characteristics. That is why we analyze each product sample in our in-house pilot plant prior to the placement of an order. Conveying tests show which design and material are most suitable for the corresponding application. Because many details need to be clarified prior to the beginning of a project: Which of the five sizes (115 to 270 mm) will we use to achieve the desired conveying capacity? In general, outputs of up to 80 m³/h are possible. Which layout is ideal for an undisturbed product flow? And which design will allow for an energy-efficient and low-wear operation of the conveyor system in each individual case? All of these questions are thoroughly investigated by our engineers - nothing is left to chance.

THE RIGHT ACCESSORIES FOR ANY KIND OF SLUDGE

Depending on the adhesiveness of the product, special accessories may be indispensable. For example rotating bridge breakers to support the infeed. Alternatively, knocking units can also be used to support the infeed of the product in the inlet area. Brush stations can be used to separate easily adhering products from the conveyor chain. Moreover, plungers mounted to the tooth flanks of the driving sprocket remove adhering or non-free-flowing bulk materials stuck between the disks. The use of vibration or jet systems for the forced discharge of the products is also conceivable. Inside the pipe system itself, the conveyor chain can also be equipped with oversized cleaning discs or brush discs, elastic sealing washers, or scratch discs. This will clean the pipe in the conveying as well as in the return path from the inside and helps to prevent product buildup. However, the design with virtually no dead space at all, already ensures that no residues will build up inside the conveyor system.



Tube chain conveyor for sludge and adhesive products

Schrage[®]

CONVEYING SYSTEMS

Schrage Rohrketten-system GmbH
Conveying Systems

CONVEYOR TECHNOLOGY FOR CHALLENGING PRODUCTS

The tube chain conveyor is gas, water, and dust tight and, due to its hermetically closed system, it is predestined for the transportation of challenging media as well as harmful or dangerous substances. , regardless of whether they are abrasive, explosive, toxic, adhesive, or chemically aggressive. This conveyor allows for odor free transport and is also available in an ATEX compliant design for use in areas exposed to extreme explosion hazards.

Because, apart from the economic aspect, ensuring the safety of your venture is the key factor in the planning of your conveyor system.

You see, we take matters seriously! Because it is only then that we can find the optimum solution for our client and deliver true Schrage quality. Also for your project! Please call us!