HUBER TECHNOLOGY
WASTE WATER Solutions

HUBER – Conveyor Systems
Screw Conveyor

For transporting screenings, dewatered sludge and grit as well as solids from industrial processes

- Horizontal and inclined conveyor
- Distribution conveyor solutions
- Vertical conveyors

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Design and function

Huber screw conveyors are designed as pipe screw conveyors (Ro8) or trough screw conveyors (Ro8 T) depending on the application. They are installed for horizontal, inclined and even vertical transport of screenings, dewatered sludge, grit etc. from wastewater treatment plants, or other solids from industrial processes. The entire process of material transport takes place within a closed tube or a lidded trough. Gentle movement in an enclosed pipe prevents odour nuisance and dust development. HUBER screw conveyors are custom made for the individual product to be conveyed. They are planned and manufactured with state-of-the-art design and production equipment to suit individual customer demands.

Thanks to their special design principle the conveyors of this machine type can be equipped with either a push or pull drive. Depending on the specific installation situation several feed hoppers or discharge chutes can be selected. Direct screenings transfer from one to the other screw conveyor is no problem.

HUBER Trough Screw Conveyor Ro8 T
The HUBER Trough Screw Conveyor Ro8 T is characterised by its robust design and comprehensive stainless steel components. The screw is mounted in plastic bearing shells that are fixed in the trough. Bearing shells made of wear-resistant plastic are used to guarantee maximum service life and resistance to wear and tear. The modular design permits easy disassembly. This minimises maintenance and repair costs.

HUBER Pipe Screw Conveyor Ro8
The HUBER Pipe Screw Conveyor Ro8 features with guide bars and can be installed at an angle of up to 90° depending on the individual product to be conveyed. The design of the Ro8 screw conveyor allows the screw to be mounted on both sides to guarantee low levels of wear during operation.

- **Installation angle**
  An installation angle of up to 90° is conceivable depending on application and variant.
- **Completely made of stainless steel**
  The machine is completely made of stainless steel and acid-treated in a pickling bath, which eliminates maintenance work otherwise caused by corrosion.
- **Enclosed system**
  A fully enclosed system eliminates any development of odour and dust
- **Outdoor installation**
  The HUBER Screw Conveyor Ro8/Ro8 T can also be supplied with frost protection thanks to heating that is potentially combined with additional insulation.
- **Low-maintenance design**
  System does away with lubrication points. Maintenance is essentially limited to regular checks and visual inspections.

Conveyor solution for mechanical pre-treatment of unpressed screenings.

Graphic illustration of a HUBER Screw Conveyor Ro8 T.

Inclined conveyor supply downstream of a HUBER Screw Press Q-PRESS®.

Horizontal and inclined conveyor supply with the HUBER Trough Screw Conveyor Ro8 T

The concept of the Ro8 T trough screw conveyor with easy-to-change bearing shells makes this machine variant the predominant transport solution

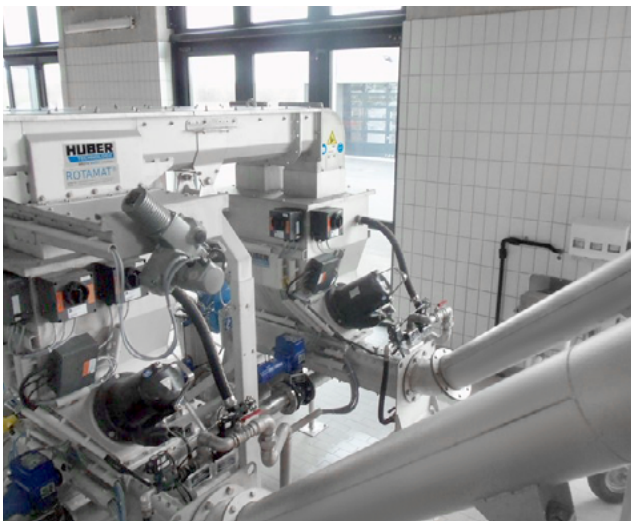
Depending on the medium to be conveyed

- Installation angle up to 35°
- Coarse bulk materials such as screenings: Up to 30 m transport distance
- Free-flowing bulk solids such as dewatered sludge: up to 60 m transport distance
- Option of implementing redundant conveyors by integrating an electrical diverter on two parallel trough conveying screws

Horizontal transport of dried sewage sludge.

Redundant conveyor using a double trough diverter.

HUBER Screw Conveyor Ro8 T discharging screenings into a HUBER Wash Press WAP® SL.



Intermediate pusher for distributing untreated screenings to two HUBER Wash Presses WAP® SL.

Two screens installed in parallel discharging into a screw conveyor.

Conveyor distribution supply with the HUBER Trough Screw Conveyor Ro8 T

Distributor with intermediate slide or two end discharge units

Application of an intermediate slides or distributing the material flow by reversing the screw's direction of rotation to a corresponding end discharge point represent the typical distribution functions of a screw conveyor.

In this process, intermediate slides can be operated electrically or pneumatically. The detailed design of the slides is adapted to the respective application.

In addition to fixed, ceiling-mounted distributors, rotating distribution screws are also used to ensure an even supply of containers, especially in the sludge disposal sector.

Ceiling-mounted distributor for pressed screenings with two end discharge units.

Distribution conveyor to supply sludge to a HUBER Sludge Turner SOLSTICE®. 55 m conveyor length, 16 discharge points.

Ceiling-mounted distributor for disposal of dewatered sludge in containers.

Rotating Distribution Screw Ro8 TC for dewatered sludge to supply open areas or containers.

Rotating Screenings Distribution Screw Ro8 TC.

Vertical conveyor supply with the HUBER Screw Conveyor Ro8

The HUBER Screw Conveyor Ro8 V is used for vertical or very steep conveying angles. Please note that an upstream screw conveyor or wash press is required to feed the Ro8.

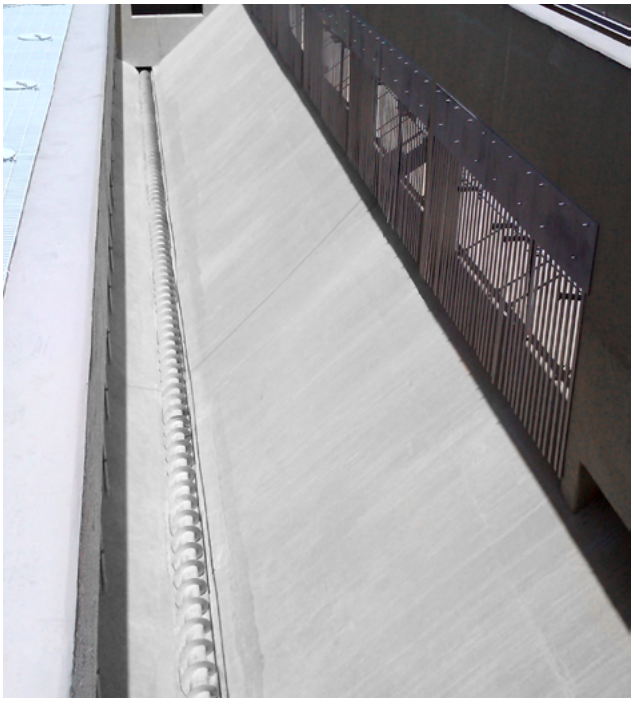
- Delivery angle up to 90°
- Conveyor lengths up to 12 m

HUBER Screw Conveyor Ro8 V as container distribution solution.

Vertical installation of a HUBER Screw Conveyor Ro8 discharging screenings into a HUBER Wash Press WAP®.

Underground screenings system, vertical wash press discharge with downstream Ro8 V.

Vertical discharge of screenings from a micro strainer out of a deep manhole.



HUBER Trough Screw Conveyor Ro8 T as grit removal screw in a longitudinal grit trap.

Open distribution chute for screenings in tip mode.

HUBER Trough Screw Conveyor Ro8 T as supplying conveyor bridge to a HUBER Solar Sludge Dryer .

HUBER Trough Screw Conveyor Ro8 T for a fully enclosed disposal solution with loading bellows.