



HUBER Screw Conveyor Ro8 TC as distribution screw

- ▶ For conveying and distributing dewatered sludge after dewatering
- ▶ Degree of automation can be adapted to customer requirements

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Design and function

The HUBER Screw Conveyor Ro8 TC is used for the transport and distribution of dewatered sludge, e.g. after the HUBER Screw Press Q-PRESS®.

The screw conveyor is designed with a swivelling system to enable the sludge to be distributed into several containers. A swivelling chute is fitted at the end of the screw conveyor to ensure that the cone is evenly distributed.

The entire process of material transport takes place within a lidded trough. The HUBER Screw Conveyor Ro8 TC is custom made for the individual discharge situation and designed and manufactured with state-of-the-art techniques. The upright can be adjusted from 0.5 to 2.3 meters to suit the relevant situation. The machine can also be designed for different throughput rates, depending on the dewatering capacity of the HUBER Screw Press Q-PRESS®.

Both free discharge and loading of open containers can be realised depending on the installation situation and customer requirements. The machine can be operated in different degrees of automation – from manual to fully automatic.

The advantages of the HUBER Screw Conveyor Ro8 TC

► Variable discharge height & wider swivel radius

The discharge height of the Ro8 TC is adapted to the local conditions. To do this, adjust the height of the upright and set up the machine at an angle of 20°. With a swivel radius of approx. 5 or 4 metres, up to four 10 m³ trough containers can be filled or a large dumping circle can be generated in free discharge.

► Pendulum chute

The use of the pendulum chute allows the creation of several cones in one screw position. This makes it possible to make ideal use of the storage volume.

► Made completely of stainless steel

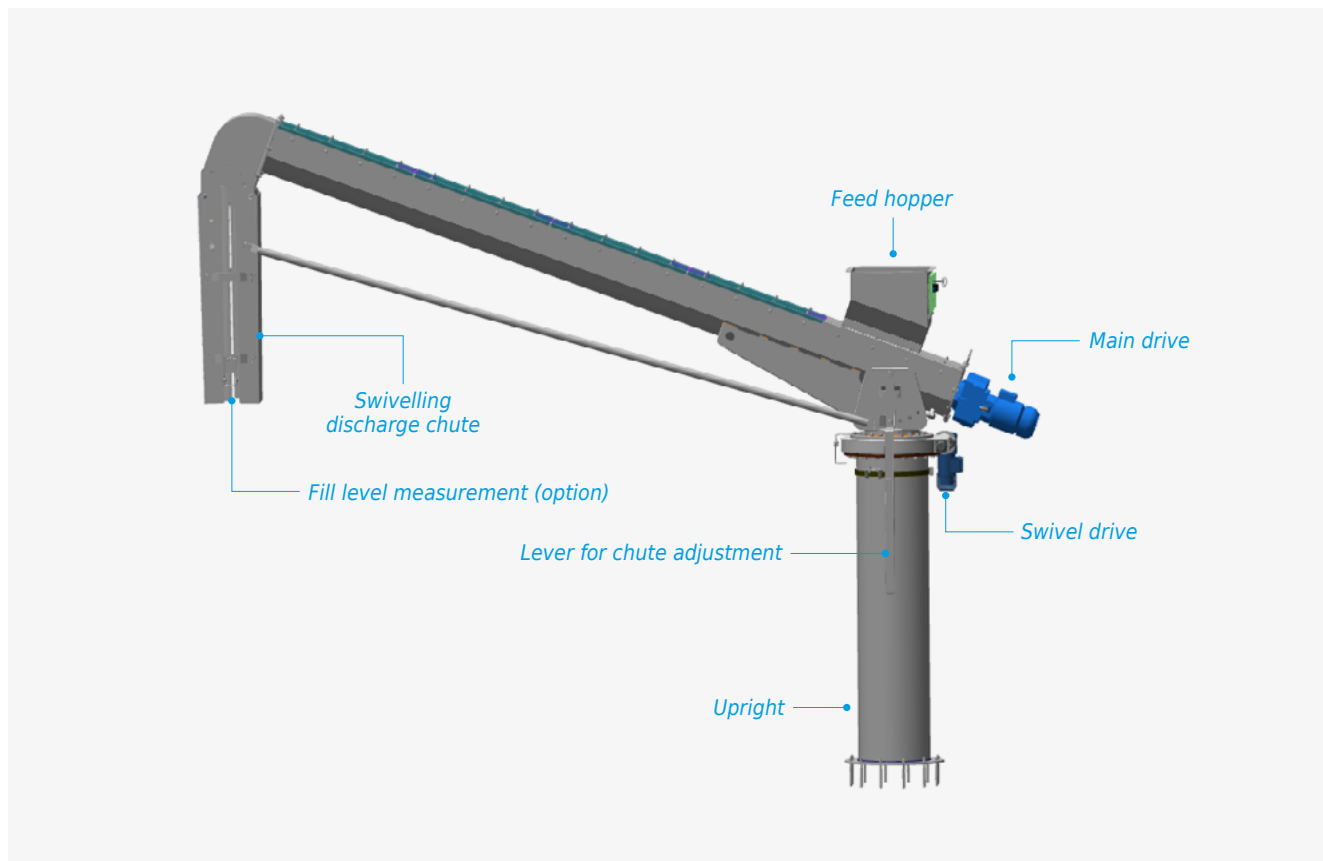
The trough and grit removal screw are made of stainless steel and pickled in a pickling bath. Corrosion problems are thus a thing of the past.

► Low-maintenance design

System does away with lubrication points. Regular checking and visual inspection are sufficient.

► Outdoor installation

Windproof design allows the machine to be installed outdoors.



Schematic diagram of the HUBER Screw Conveyor Ro8 TC.

Degrees of automation of the HUBER Screw Conveyor Ro8 TC

The distribution screw can be designed in different degrees of automation depending on the customer request and installation situation. For solutions with containers, the consistent positioning of the container must be ensured on the system side in the case of automation.

Jog mode – fully manual

In this operating mode, the entire screw conveyor must be operated manually. This means that the screw can be swivelled from one position to the next via the local control panel. The chute can also be moved to different positions via a hand lever to enable the sludge to be distributed.

Automatic: Swivel drive

Manual: Pendulum chute

In this version, a measurement of the cone via a radar probe is integrated. As soon as the required filling height is reached, the distribution screw automatically swivels to

the next drop point. After all positions have been filled once, the chute can be adjusted manually with the hand lever and all positions can be approached again.

Automatic: Swivel drive

Automatic: Pendulum chute

If the HUBER Screw Conveyor Ro8 TC is desired as a fully automatic version, the adjustment of the chute is also automated in addition to the swivelling of the screw. The screw conveyor can therefore automatically move to various positions and reports as soon as all containers are completely filled.

Container operation of the HUBER Screw Conveyor Ro8 TC

Up to four containers in a star-shaped or parallel arrangement can be operated by the HUBER Screw Conveyor Ro8 TC. The star-shaped arrangement allows very easy automation of the system.

With regard to space, care must be taken to ensure that the containers are lowered to the same place in a reproducible manner. Simple markings on the floor are sufficient.



Star-shaped arrangement of the containers.

Application examples



Sludge discharge through the Ro8 TC to a free area...



... or in containers.



Collision protection in front of the HUBER Screw Conveyor Ro8 TC.



Containers are filled by the Ro8 TC with automatic chute and automatic swivel drive.