



R&O



SCREW CONVEYOR & COMPACTOR

This equipment is mainly dedicated to the treatment of screening waste, sludge and sand/grit as part of the treatment of urban or industrial wastewater.

SHAFTLESS SCREW CONVEYOR

- The **shaftless screw** made of **special steel** is installed in a **U-shaped trough**, made of successive folded plates of **304L stainless steel** in its standard version.
- **The absence of a shaft** and intermediate stages **practically eliminates any risk of clogging**.
- Entirely covered, this equipment is **secure, odourless and clean**. The trough is protected from wear and tear by PEHD, stainless steel or Hardox strips.
- In each case, **the gear motor can either push or pull**. The screw conveyor can be installed both indoors and out, and has a large number of discharge options.



BENEFITS

- ✓ **Robustness**
- ✓ **Reduced maintenance (few wearing parts) and low initial investment**
- ✓ **Limited clogging risk**
- ✓ **Odourless and clean**
- ✓ **Not affected by fibrous materials**
- ✓ **Long lengths possible**
- ✓ **Angle up to 30°**
- ✓ **Wearing material suited to the product (waste, sand, etc.)**



*This system compacts the screening waste from sewage treatment plants.
The volume reduction can reach 50%, and dryness: 30%.*

SHAFTLESS SCREW COMPACTOR

- The screw compactor is composed of a **drainage area**, a **transport area** and finally a **dewatering/compacting area**.
- The waste is transported to the compacting area via a **stainless steel shaftless screw**. The press housing, the wringing unit and the conveyor tubes are made of **304L stainless steel** for the standard version.
- The trough is protected from wear and tear by PEHD or stainless steel strips.
- The waste is dewatered according to the length of the plug and the pressure exerted by the adjustable outlet valve, by means of a counterweight. The expressed liquor is evacuated via a drain.



- In order to avoid stagnation of the liquors in the screw trough, the screw should be installed at a slight slope (2 or 3°).
- The longest possible trough is 6 linear metres for a slope of 20°.
- R&O also offers a **bagging system**. The plastic bags are 90 m-long endless bags or filter bags.

BENEFITS

- ✓ **Robustness**
- ✓ **Reduced maintenance (few wearing parts) and low initial investment**
- ✓ **Limited clogging risk**
- ✓ **Odourless and clean**
- ✓ **Not affected by fibrous materials**
- ✓ **Throughput: from 2 - 13 m³/h**
- ✓ **Efficient rinsing of the strainer**

