

# Helisieve<sup>®</sup> In-Channel Fine Screen

## All-in-one: screening, conveying and dewatering system

The Helisieve<sup>®</sup> system uses shaftless spiral technology to perform screening, solids conveying and dewatering in one cost efficient operation. The heart of the system is a heavy-duty carbon steel spiral that conveys screenings to the dewatering zone and dewateres them to acceptable landfill requirements.

The spiral is fabricated in a continuous flight to assure a strong, stable structure. It is surrounded by a stainless steel tube that encloses screenings, minimizes odors and provides a clean, hygienic operation.

The Helisieve<sup>®</sup> system's shaftless core handles a greater volume of solids than shafted screw designs. Fibrous and bulky solids have a clear, barrier free path to the dewatering zone. The shaftless design also eliminates the need for maintenance-intensive bottom support bearings and intermediate hanger bearings.

### Three operations in one

#### Screening:

Influent moves into the fine screening area where the perforated screen removes solids. A spiral-mounted brush keeps the screen surface clean.

#### Conveying:

The spiral moves the screenings upward through the transport area. There is no shaft to restrict flow or become entangled with long, stringy solids.

#### Dewatering:

Solids are dewatered by compression against a plug of material formed in the flightless zone. Liquid is discharged through a perforated screen. A removable drain box simplifies access to the screen and solids plug. Solids at 30% dry weight are common.

# Advantages

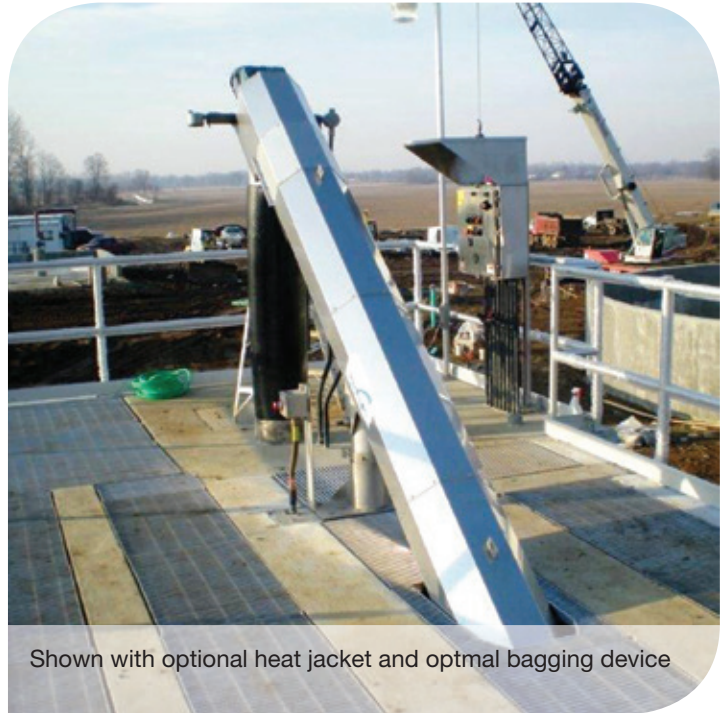
- Cost-effective: integrates three processes: screening, conveying and dewatering, in one compact unit.
- Efficient: the shaftless spiral provides greater conveying capacity and eliminates entanglement of solids around a shaft.
- Lowers disposal costs: dewatering reduces weight and volume. Thirty percent dry weight solids are common.
- Hygienic: screens are enclosed by the stainless steel tube and can be discharged directly into sealed containers to minimize odor and handling. Optional bagger assemblies simplify disposal.
- Designed to last: rugged steel alloy spiral fabricated in a continuous flight to tight manufacturing tolerances.
- Compact and easy to install: shipped assembled, with flexible seals, for quick channel positioning, or in its own tank housing.
- Economical: one low horsepower gearmotor drives the entire system.
- Up-front serviceability: pivots out for easy access for above-channel maintenance.
- Low maintenance: no troublesome submerged end bearings or intermediate hanger bearings

## Screen openings

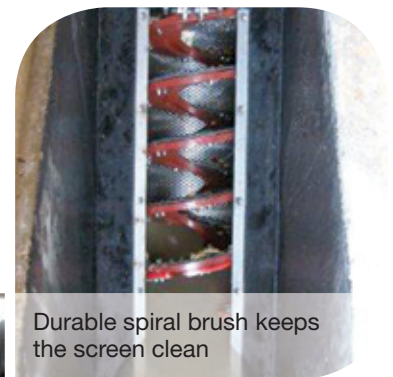
0.125" (3 mm) and 0.250" (6 mm) diameter and .040" x .4" perforated slots.

## Helisieve Plus® in-tank system for pumped flows

Screens, conveys and dewateres like the Helisieve unit, but is self-contained in a stainless steel tank. Suitable for industrial and municipal processes.



Shown with optional heat jacket and optimal bagging device



Durable spiral brush keeps the screen clean



Drain box with optional explosion-proof wiring



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