



Cost-efficient and easy to install



Screen-convey-dewater

# Hycor<sup>®</sup> 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

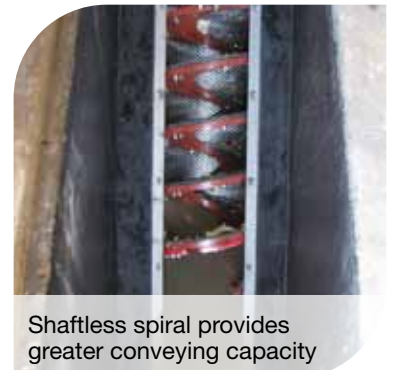
0.125" (3 mm) and 0.250" (6 mm) diameter and .040" x .4" perforated slots.

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

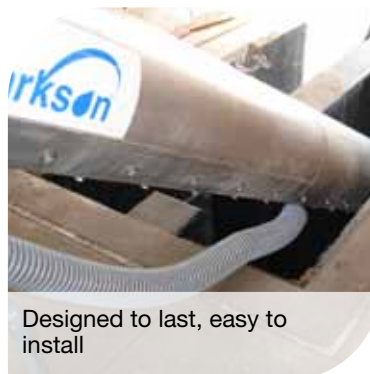
Screens, conveys and dewateres like the Helisieve unit, but is self contained in a stainless steel tank. Suitable for industrial and municipal processes.



Hundreds of units sold over the last 20 years



Shaftless spiral provides greater conveying capacity



Designed to last, easy to install



Fort Lauderdale  
Chicago  
Montreal  
Dubai

1.888.PARKSON  
[technology@parkson.com](mailto:technology@parkson.com)  
[www.parkson.com](http://www.parkson.com)