

Hycor[®] Helisieve[®] M In-Channel Fine Screen

All-in-One: Screening, Conveying and Dewatering System

- New operator-friendly features!
- Now with EZ-Wipe™ for advanced wipes control.

The Helisieve® M system uses shaftless spiral technology to perform screening, solids conveying and dewatering in one cost-efficient operation.

The Hycor® Helisieve® has provided an in-channel screening solution for over 25 years and more than 1,000 installations, trusted by operators everywhere. The Helisieve® M builds on the proven Helisieve platform by offering numerous operator-friendly maintenance and performance improvements. Screening baskets can be selected to target all solids in your waste stream.

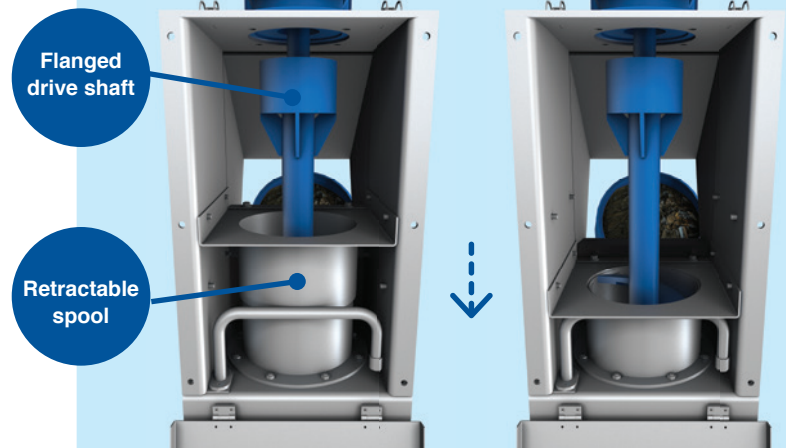


The heart of the system is a heavy-duty, carbon steel spiral that conveys screenings to the dewatering zone and dewateres them to acceptable landfill requirements.

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 M 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.

New! Press Zone with Retractable Spool Compaction Tube!



Standard Mode
Helps achieve drier solids

EZ-Wipe™ Mode
Reduces plugging due to high "wipes load"

New Operator-Friendly Features

- First adjustable press zone on the market helps meet different load needs
- Retractable spool with EZ-Wipe™ position enlarges solids drop zone to reduce potential for clogging
- Spiral angles 35° or 45°
- Segmented 180° brush reduces replacement time by at least 25%
- 25% or greater brush life due to new brush saver control feature
- Large hinged discharge cover for easy access
- Flanged drive shaft for easy decoupling of spiral from gearbox
- Fourth wear bar increases wear life by over 30%
- 6 models: 200 to 700

Advantages

- **Cost-effective:** Integrates three processes in one compact unit- screening, conveying and dewatering
- **Efficient:** Top entry to the press zone is more operator friendly
- **Hygienic:** Screenings 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 is fabricated in a continuous flight for improved stiffness and strength
- **Compact and easy to install:** The unit is shipped assembled with flexible seals for quick channel positioning or shipped in its own tank housing
- **Economical:** One low horsepower gearmotor drives the entire system
- **Up-front serviceability:** Pivots out of the channel and rotates laterally for easy access and above-channel maintenance
- **Low maintenance:** There are no troublesome, submerged end bearings or intermediate hanger bearings
- **Unit can be heat traced:** Ideal for cold weather operation

Three Operations In One

Screening:

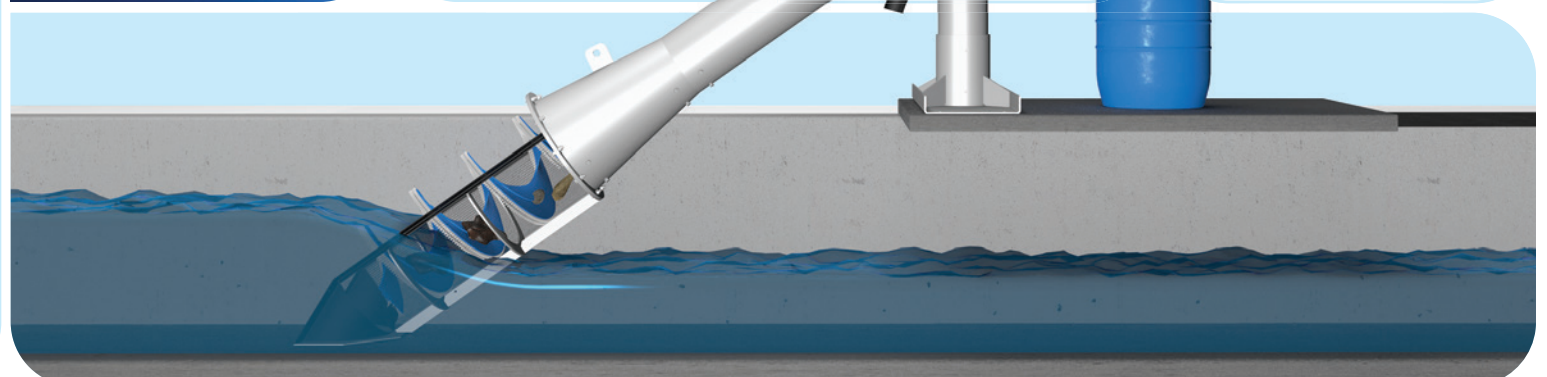
Influent moves into the fine screenings area where a spiral-mounted brush keeps the perforated screening surface clean. Available in 1/4" or 1/8" perforated screen openings with flow rates up to 8.5 MGD.

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 top-mounted, hinged access door simplifies access to the screen and solids plug.



Hycor® Helisieve® M Plus and Helisieve® M Plus Septage Receiving Station

A self-contained system with optional septage pre-treatment

The Hycor® Helisieve® M Plus provides customers with an in-tank unit when channels are not available. With the addition of special features and controls, the Helisieve® M Plus Septage Receiving Station can turn your plant into a professional septage receiving facility overnight – without requiring additional manpower or a major retrofit.

The Helisieve M Plus Septage Receiving unit is a self-contained system that pre-treats septage by removing solids, including rags, rocks and plastics, prior to introducing to plant processes. If not removed, these solids can foul pumps, digesters and other downstream equipment. These troublesome solids are removed and dewatered by the unit so they can be transported to a landfill while the liquid stream enters the plant. It's fast, easy and effective. Haulers simply hook up to the unit, discharge their load, and are on their way again in minutes. Incoming flow is automatically regulated by a control valve to prevent overflow, and odors are contained in the stainless steel receiving tank. The overall process is simple to operate and maintain.

Fast Payback

A Helisieve M Plus Septage Receiving Station prevents plant upsets and protects downstream equipment. It reduces hauling and landfill costs by dewatering the screenings for landfill and may even generate revenue for your plant. Payback time varies with the market price for septage acceptance.



Helisieve M Plus Septage Receiving Tank-Mounted Unit Advantages

- Level control automatically regulates septage feed and prevents overflow
- Low maintenance – shaftless transport spiral has no submerged bearings
- Automatic washdown – spray headers wash the tank interior after shutdown
- Optional security access system allows 24-hour access for pre-qualified haulers
- Optional flow meter and totalizer provide computerized monthly billing
- Optional pH sensors prevent acceptance of “off spec” loads



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