

# Spiralman™ & Spiralman Plus™

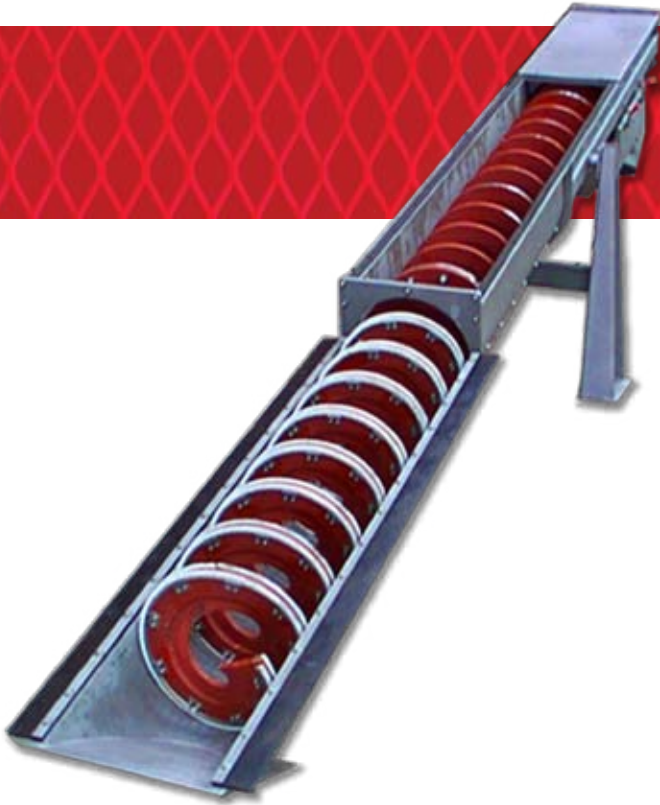
---

Headworks® Screening Systems



# Spiralman™ & Spiralman Plus™

The Meanest, Toughest Screens in the World



- ▶ **U-trough design with bolted covers provides simple access**
- ▶ **Bolted connection between sieve spiral & transport spiral reduces costly maintenance downtime**
- ▶ **Uniform spiral and trough diameters mean less blocking**
- ▶ **Openings as small as 1/8" (3mm)**
- ▶ **Optional TurboWash™ for superior screenings washing**

The Headworks Spiralman™ In-Channel screen is a shaftless spiral screen that combines screenings, conveying and compacting in a single reliable unit. The Headworks Spiralman Plus™ is a unique, patented, dual screen consisting of two complimentary screen units to provide extra capacity.

## PRODUCT HIGHLIGHTS

As the shaftless spiral turns it clears screenings from the perforated sieve and conveys them out of the channel. The Spiral is fitted with a brush in the Sieve Zone to keep the screen clean. The solids continue through the Transport Zone, through the optional Wash Zone and ultimately to the Dewatering Zone prior to discharge. To make maintenance both accessible and easy the entire length of the spiral sits in a U-trough. The Spiral remains the same diameter over its entire length, reducing the potential for blocking. The spiral in the Sieve Zone is bolted to the transport spiral and can easily be removed for brush replacement in a safe and comfortable

environment. The brush is mounted to the spiral with clips. Each clip has two bolts to securely hold them in place. A spare sieve spiral with a brush attached can also be provided. The Transport and Dewatering Zones have bolted covers for easy access to remove obstructions, inspect, repair or maintain the unit. Bolted wear bars in the U-Trough make replacement easy.

## Spiralman Plus™

Screens and screening systems are designed for the maximum water flow with the highest concentration of solids. Considerable hydraulic variations can be seen in some systems such as CSO systems, new developments with designs based on future flows or areas with significant tourism seasons. Due to the changing demands, the screens can be over-designed for the average operating conditions which can lead to sedimentation in the channel.

The Spiralman Plus™ employs two screening devices in one unit, one for the average or dry weather flow and a second for high volume or peak conditions.

*Here's how it works:*

The dry weather or average flow runs through the typical Spiralman™ unit in a narrow channel. The perforated add-on Plus Module screen handles the additional flow in a wider channel section beginning several inches above the channel invert. The screenings from the Plus Module are discharged into the Transport Zone of the Spiralman™ unit. Screenings from both screens are jointly removed, dewatered and discharged. A Wash Zone can also be added.

The narrow channel section at the bottom of the channel keeps velocities up during average flows or with start-up flow volumes which reduces settling.



## Your Future with Headworks:

- ▶ Low maintenance design
- ▶ Low life cycle costs
- ▶ High efficiency screening, no carry over or by-pass
- ▶ Removes small objects, large objects and floatables
- ▶ Reduced installation costs – easy retrofit of existing channels

### OPTIONAL EQUIPMENT

- Bagging Module captures solids as they are discharged and helps to reduce odors
- Bolted Spare Sieve Spiral for quick and easy brush replacement
- Turbowash System



The turbulent zone of influence created by the optional patented TurboWash™ agitator loosens and emulsifies the organic BOD material on screenings.





## **Spiralman™ and Spiralman Plus™**

Headworks® Spiralman and Spiralman Plus shaftless spiral screen combines screening, conveying and compacting into one unit.



800 Wilcrest, Suite 340 | Houston, Texas 77042 | USA

Phone: +1.713.647.6667 | Fax: +1.713.647.0999 | E mail: [hw@headworksusa.com](mailto:hw@headworksusa.com)

[www.headworksusa.com](http://www.headworksusa.com)