

# FLO-Screen & XD

FS/FSXD

Bar Screens



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## Efficient, Reliable, Low Maintenance Screening

The Flo-Screen and Flo-Screen XD combine high solids capture and screening efficiency with low maintenance. Unlike conventional rack and pinion design bar screens which have numerous moving parts, the Flo-Screen features a unique hydraulically driven ball bearing screw which requires no maintenance.

The Flo-Screen further minimizes maintenance costs with its robust saw-tooth rake design which eliminates tooth breakage. Installation of the Flo-Screen is also a simple procedure, eliminating costly channel modifications.

With its unique angle bar design the Flo-Screen retains solids more efficiently than conventional bar screens by increasing the screen's surface area. An innovative saw-tooth rake removes more solids and grease buildup by increasing the rake-to-screen contact area. Between cleaning cycles, the rake is parked at the bottom of the channel in position to remove any gross solids that might otherwise cause other screens to jam.



Maintenance-free Ball Screw Drive



Extended Discharge Flo-Screen

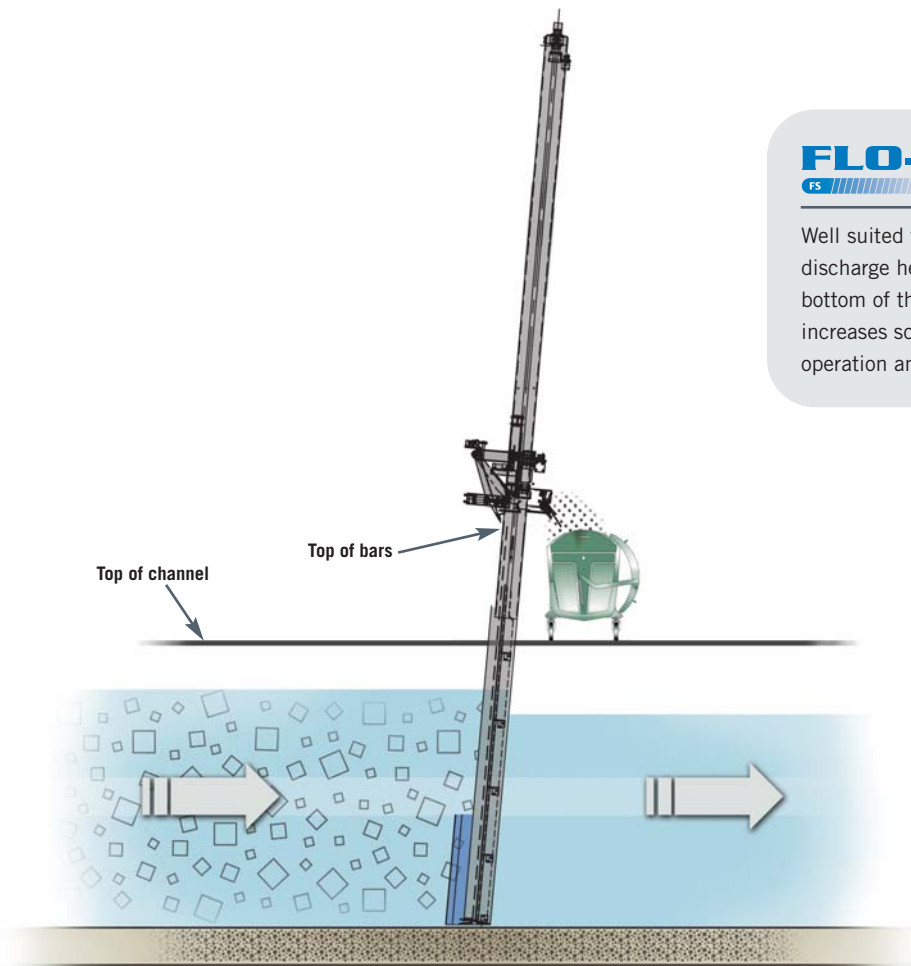
## Features & Benefits

- 1 **Angled bar design** - Improves solids capture and retention with minimal head loss.
- 2 **Saw-tooth cleaning rake design** - Cleans both leading edges of bar for maximum solids removal and minimal grease buildup.
- 3 **Ball-screw drive controls rake operation** - No maintenance required.
- 4 **Auto re-rake function** - Clears jams or large debris without user interaction.
- 5 **Central lubrication** - One location for adding lubricant with visual lube level indicator and low level alarm.
- 6 **Between cleaning cycles, rake is parked at the bottom of the channel** - Prevents the rake from jamming on large, sunken debris.
- 7 **All parts are serviced above water level** - Optimum operator convenience.
- 8 **Hydraulic drive** -
  - Frame mounting eliminates moving hoses and cables.
  - Better torque control.
  - Submersion will not harm the unit.
- 9 **Simple installation** - Screen mounts to the top of the channel – no channel modifications required.
- 10 **Value engineered for fewer components** -
  - Reduces initial equipment costs.
  - Decreases spare parts inventory.
  - Minimizes service requirements.
- 11 **Flo-Screen XD** - Extended discharge design to 35 feet with all the features of the Flo-Screen.

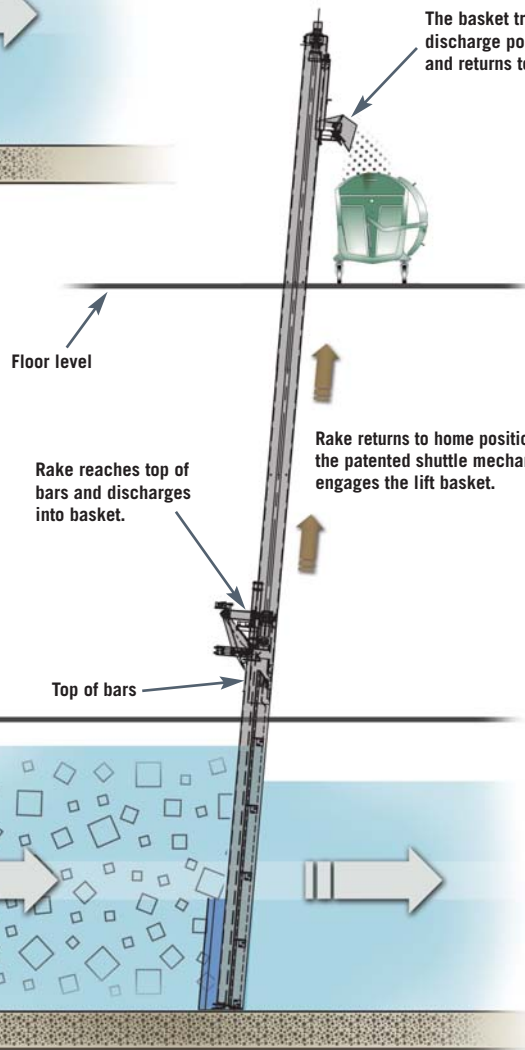
## FLO-Screen

FS Bar Screen

Well suited to applications requiring a discharge height of 12 feet or less from the bottom of the channel. The Flo-Screen increases screening efficiency while reducing operation and maintenance costs.



The basket travels to the final discharge point, discharges and returns to home position.



## FLO-Screen XD

FSXD Extended Discharge Bar Screen

With all of the same features and benefits of the Flo-Screen, the Flo-Screen XD adds the capability of discharging screenings at heights up to 35 feet.



## Specifications

|                                       |         |             |
|---------------------------------------|---------|-------------|
| <b>Flow rate (in a single unit)</b>   | mgd     | 1 – 50      |
| <b>Channel widths</b>                 | inches  | 18 - 48     |
| <b>Screen openings</b>                | inches  | 1/4 - 1-1/2 |
| <b>Angle of inclination</b>           | degrees | 85°         |
| <b>Flo-Screen Discharge Height</b>    | feet    | 12          |
| <b>Flo-Screen XD Discharge Height</b> | feet    | 35          |
| <b>Drive motor</b>                    | Hp      | 5           |
| <b>Voltage</b>                        | V       | 230/460     |
| <b>Controls</b>                       |         | NEMA 4X/7   |

## Materials of Construction

|              |                        |
|--------------|------------------------|
| <b>Frame</b> | 304 SST (316 optional) |
| <b>Bars</b>  | 304 SST (316 optional) |
| <b>Rake</b>  | 304 SST (316 optional) |

## FLO-Products

Simply Superior Design

Enviro-Care has been manufacturing liquid/solid separation and solids reduction technology for the wastewater industry since 1972. Many of these first units are still in service today. These unique products are engineered for high process efficiency, reduced maintenance and low energy consumption.

The Enviro-Care Flo-Products family is expanding. With the addition of new screens, MBR Pre-treatment systems, washing and dewatering options and complete septage receiving systems; Enviro-Care products can be found providing the same exceptional quality and cost-effective technology in more wastewater applications than ever before.

**Flo-Drum MBR** Pre-treatment Screen

**Flo-Drum** Rotating Screen

**Flo-DrumSieve** Externally-fed Rotating Drum Screen

**Flo-GritWash** Grit Classifying and Washing System

**Flo-Minutor** Solids Reduction Comminutor

**Flo-MultiRake** Coarse Bar Screen

**Flo-MultiRake** Fine Bar Screen

**Flo-MultiRake** Perforated Media Screen

**Flo-Press** Hydraulic Ram Press

**Flo-RotoDrum** Internally-fed Rotating Drum Screen

**Flo-Screen** Bar Screen

**Flo-Screen XD** Extended Discharge Bar Screen

**Flo-Sieve** Shaftless Spiral Screening Conveying, Washing and Dewatering System

**Flo-Spiral** Shaftless Spiral Conveyor

**Flo-Station** SR Septage Receiving System

**Flo-WashPress** Washer Compactor

