HYDRIA™ WATER



CROSS SCREEN XS

Cross Screen XS is a mechanical step-type screen that separates solid particles, screenings and debris from wastewater.

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A step-type fine screen has several unique properties. For example, it is totally self-cleaning and therefore requires neither flushing nor brushing. The step-type fine-screen model also has unsurpassed capacity, results and total economy in mechanical screenings separation.

Cross Screen XS is equipped with a unique sealed low-friction bottom step without plastic spacers. This results in a screen with constant gap width and the highest separation percentage of any step screen on the market. A constant gap width can be guaranteed, even during operation. The large steps with uniquely designed bars provide a safe and high conveying capacity. A 2–6 mm cross screen replaces a 10–30 mm coarse screen in existing channels with retained capacity and hydraulic flight.

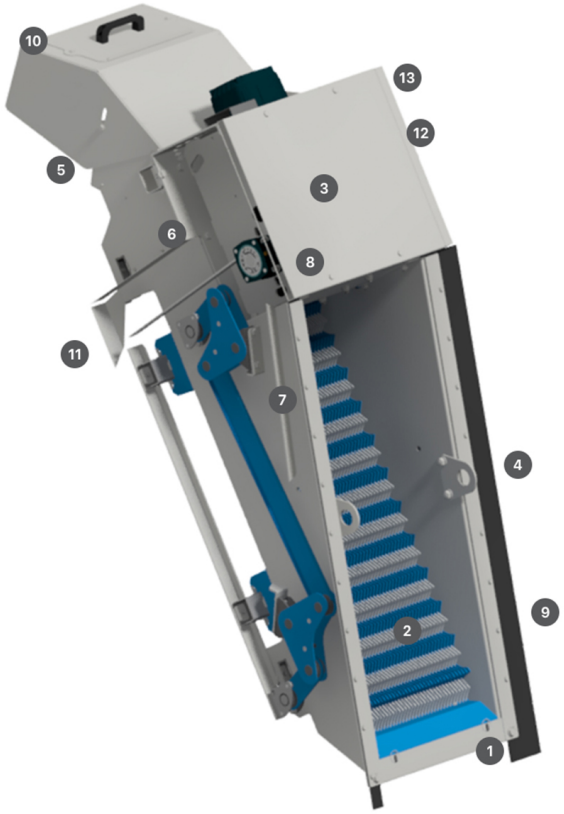
FUNCTIONS

- Unique and sealed low-friction bottom step without plastic spacers provides a constant gap width and the highest separation of any step screen on the market. This enables the replacement of perforated fine screens.
- Patented bottom step.
- The only screen on the market with guaranteed gap width, even during operation.
- Uniquely designed bars for high conveyor capacity.
- Self-cleaning discharge without plastic spacers.
- Solid design with strong and stable bars.
- Large steps provide a secure and high conveyor capacity.
- Linkage transmission eliminates limitations such as min. or max. water depth.
- Solid crossbeams and high mechanical strength allow large screening widths.
- Flexible mounting angle of 45–50 degrees provides a compact installation.
- Completely enclosed, safe and hygienic machine with easy-to-open inspection hatches.
- Adjustable support legs for suspension simplifies installation and service.

SPECIFICATIONS

Discharge height	0,8-5,5 m
Effective width	<1 600 mm
Inlet/Bar-spacing	1-6 mm
Capacity	<6 000 l/s
Drive unit	SEW/Nord
Material	EN 1.4301, EN 1.4404

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EXPLODED VIEW

1. Patented bottom step

   Moves with the machine's cycles, creating an asymmetrical flow that reduces the risk of sedimentation. Also creates a rinsing effect that keeps the bottom step clean.

2. Symmetrically designed bars

   Ensures separation and transport of larger particles regardless of their position in the medium and prevents waste from accumulating in front of the screen, avoiding a snowball effect.

3. Bolted cover over motor package for easy access during service

4. Lifting eyes for easy installation and service

5. Debris discharge for further processing

6. Reinforced scrapers ensuring debris discharge without the risk of twisting effect

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7. The market's most robust and developed linkage system for smooth and stable operation

8. Lifetime-lubricated bearings or bearings with a lubrication dispenser

9. Sealing rubber for guaranteed seal against tank/channel wall

10. Pivoting discharge guard, eliminating the need to disassemble subsequent equipment for service and inspection

11. Custom-designed support legs ensuring correct installation angle and facilitating pivoting and service

12. Pressure sensor controlling machine start

13. Factory-mounted junction box for power supply and home position sensor