

BOSCREEN™ TRAVELLING SCREEN

FINE SCREEN

BENEFITS

- High screening capacity.
- Large screening area in a compact design with minimum space requirement.
- Easy to retrofit into existing channels.
- Capable of high speed rotation (up to 15m/min).
- Easy and reduced maintenance compare. to other screens on the market.
- High tightness efficiency.
- Virtually zero carry-over.
- Premium quality construction and robust design.
- Designed to meet seismic qualifications.
- Compliant with existing regulations for aquatic life protection.

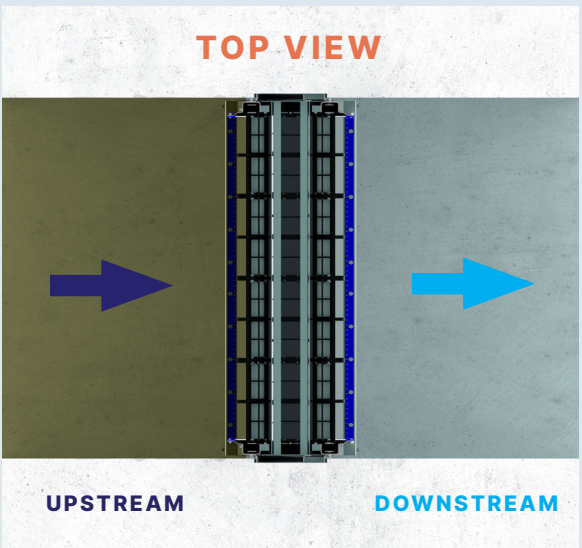


DESCRIPTION

- BEAUDREY Boscreen™ travelling screens are used to arrest the small debris, both floating and submerged, contained in the water so that the downstream users remain unobstructed and clean.
- Our Boscreen™ uses advanced fine screening technology to efficiently remove sargassum, algae, jellyfish, seaweed, any fibrous build-up (e.g., textile fibers, vegetal decay, seaweed, water grass...) and other suspended solids from water.
- BEAUDREY Boscreen™ can be customized to suit a wide range of applications such as municipal and industrial wastewater treatment plants (WWTP), water treatment plants (WTP), desalination plants, power plants and more. Installed vertically or inclined (45° or 70°), this machine is versatile to suit the needs of water screening across all industries, as well as ensuring our compliance with existing regulations for aquatic life protection, including EPA316b.
- Our Boscreen™ can operate in a variety of water types including seawater, fresh water and brackish water. The Boscreen™ is self-cleaning and have operation modes that range from fully automatic to strictly manual (maintenance).
- The integration of BEAUDREY Boscreen™ in any type of plant brings about significant cost savings. Its advanced filtration system reduces the need for additional treatment processes and prevents damage to downstream equipment. Additionally, the self-cleaning feature minimizes maintenance requirements and extends the product's lifespan, resulting in reduced operational expenses (OPEX) over time.

LAYOUT

The water flows across the upstream and then the downstream panels (through flow pattern only). The debris are arrested on the upstream panels and backwashed at the deck level.



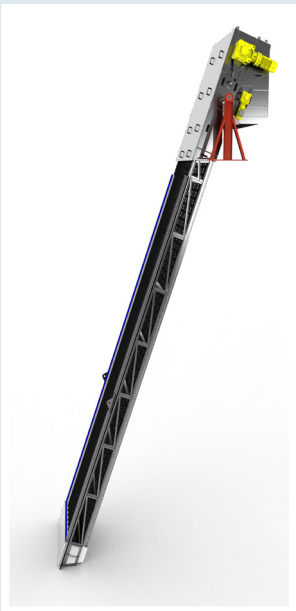
MATERIALS, SIZES & DATA

MATERIALS

- Structure : Available in Epoxy painted carbon steel, Stainless steel (304L, 316L), Duplex or Super Duplex.
- Screening element: In standard, synthetic material (BEAUDREY Nocling™ panel). Upon request, available in stainless steel (304L, 316L), Duplex or Super Duplex for the perforated plate or wire mesh (options).
- Main shaft: Available in Epoxy painted carbon steel, Stainless steel (304L, 316L), Duplex or Super Duplex.
- Chain links: Available in stainless steel AISI 316, Duplex or Super Duplex.
- Nuts and bolts: Stainless Steel A4, Duplex or Super Duplex.

SIZES AND DATA

- Mesh aperture from 3x3mm to 10x10mm.
- Channel height up to 15m.
- Channel width up to 3m.
- Installation: vertical or inclined (45° - 70°).
- For specific requirements, please contact us.



ACCESSORIES

NECESSARY ANCILLARIES

- Spray-water supply circuit.
- Head-loss monitoring system.
- Electrical control cabinet.
- Upstream bar screen according to the application.
- Pit dewatering stoplogs or penstocks.
- Trash collecting system (basket, wash press, screw conveyor, etc).

OPTIONAL FEATURES

- Variable speed rotation via VFD.
- Lifting trays / combs.
- Scraper.
- Ristroph-style buckets and low-pressure spray pipe (EPA316b).
- Seismic qualification.
- Cathodic protection (Anodes or impressed current ICCP).

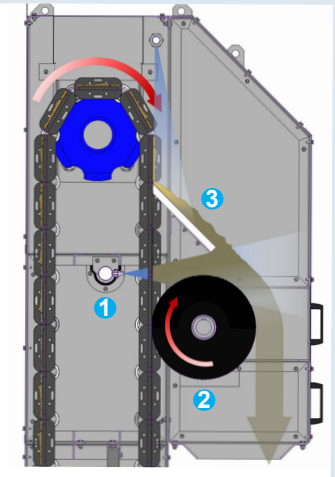


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DESCRIPTION AND OPERATION

- Our Boscreen™ utilizes specially engineered modular screening elements, like Beaudrey patented Nocling™ panels or stainless-steel wire mesh/perforated plates, that allow the passage of water while effectively capturing and retaining unwanted particles. This fine screening technology ensures thorough removal of solid matter, resulting in cleaner water.
- The screening panels collect the debris below the high-water level. They travel up above deck level, around the top and down again. Our unique three-stage panel cleaning process on the downstream side of the panels, within the screen's head structure, backwash the screening panels, remove the debris which are projected into a collection trough or wash press/screw conveyor.



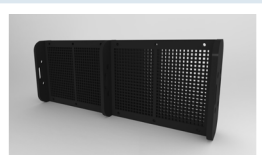
CONSTRUCTION

CLEANING SYSTEM, SCREENING PANELS AND BOOT PLATE

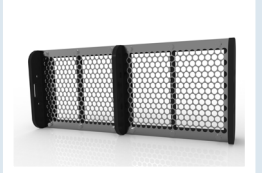
- In combination with BEAUDREY patented Nocling™ panels, our Boscreen™ uses a unique three-stage panel cleaning process. The first stage includes a specially designed spray water pipe ❶ equipped with self-cleaning nozzles (i.e., built-into strainer), to prevent screening panels becoming blinded by hair pinning and rag stapling. The second stage uses a fast clockwise rotating brush ❷ located in front of the spray pipe. This specific arrangement ensures a double cleaning effect by combining the high-pressure water blade of the spray nozzles and the brushing effect of the counter-rotating brush. This arrangement also increases cleaning energy and efficiency. Finally, the third stage uses a scraper ❸ (option) to complete the cleaning process if needed. This three-stage cleaning process ensures that each area of the screening panel is cleaned in the best possible way. State of the art, our unique cleaning process virtually eliminates debris carryover.
- Beaudrey boot plate and guide rail technology prevent debris and aquatic life from entering the Boscreen's bottom. And our well-proven patented Nocling™ panels combined with more than 100 years of experience in the water screening industry ensures our compliance with existing regulations for aquatic life protection, including EPA316b.
- Many options are available according to your application (e.g., lifting trays, Ristroph-style fish collection bucket, etc.).

CHAINS AND STRUCTURE

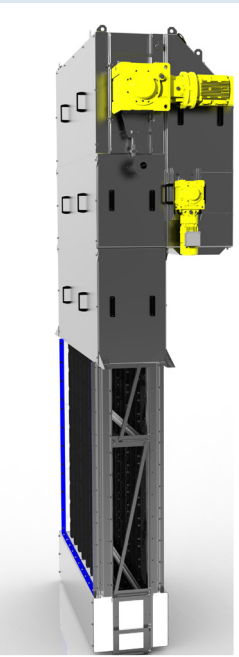
- Backed by over a century of experience, our long-lasting chain design reflects the best state of the art. Strong materials such as stainless steel AISI316 for fresh water, Duplex or Super-duplex stainless steel for seawater applications.
- Chains guides are part of the Boscreen™ structure.
- The Boscreen™ structure is self-standing.
- Our full-carrying structure reduces civil works and makes our Boscreen™ independent of civil works potential defects.



Screening element - Nocling™



Screening element - perforated plate



Screening element - wire mesh

