

# BOSCREEN™ TRAVELLING SCREEN

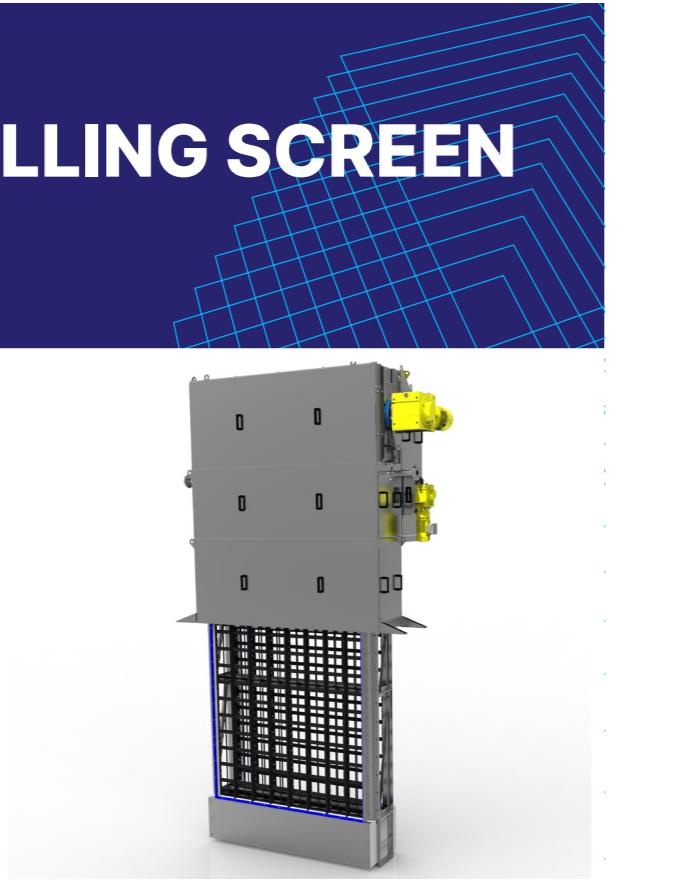
## FINE SCREEN

### BENEFITS

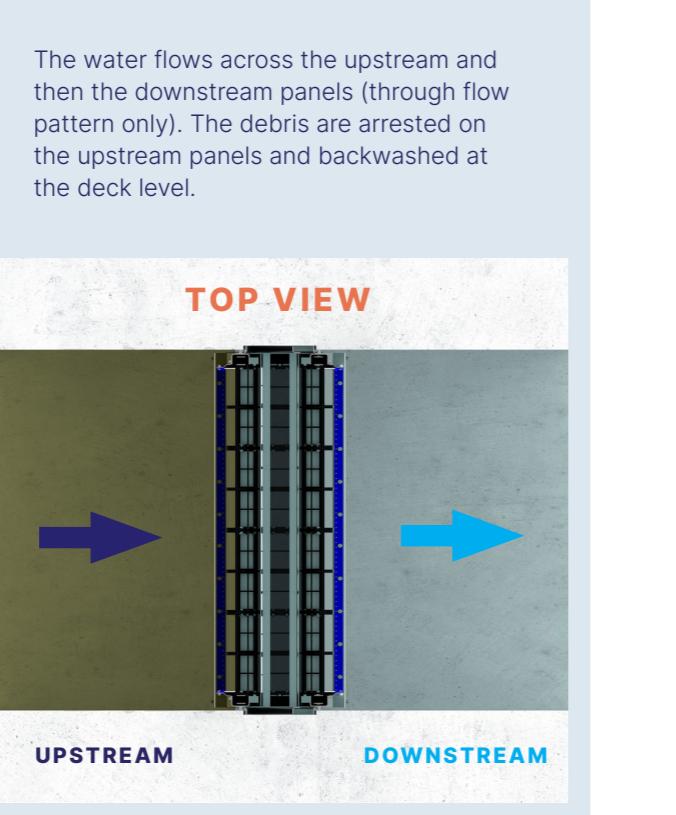
- High screening capacity.
- Large screening area in a compact design with minimum space requirement.
- Easy to retrofit into existing channels.
- Capable of high speed rotation (up to 15m/min).
- Easy and reduced maintenance compare to other screens on the market.
- High tightness efficiency.
- Virtually 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



### 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.

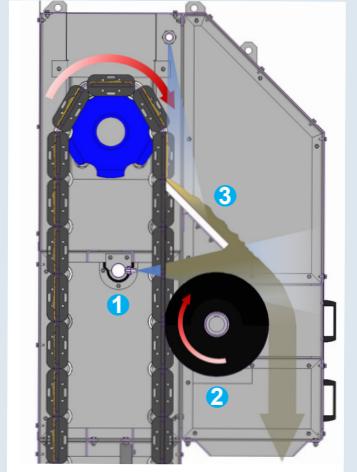
#### SIZES AND DATA

- 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.



### 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.



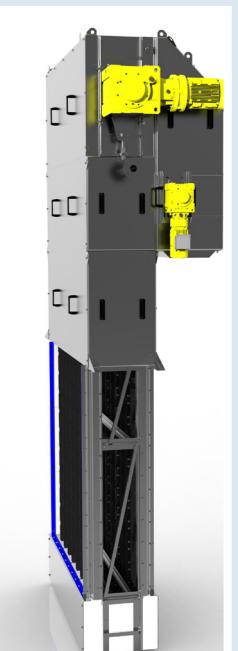
### CONSTRUCTION

#### 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 1 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 2 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 3 (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 - wire mesh

### 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).



[www.beaudrey.com/contact](http://www.beaudrey.com/contact)

