

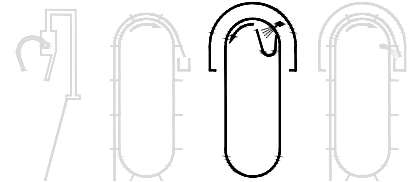


PROFILTER

Travelling band screen

awarded with the Gold Medal at MTP POLEKO

The PROFILTER's product portfolio covers the devices which may form the complete mechanical water and sewage treatment process line, i.e. repair gates, bar screens, bar screen cleaning grabs, mechanical bar screens, macerators, screenings wash presses, screw conveyors, travelling band screens, combined bar and travelling band screens, rotary screens and various types of corrosion-resistant filtrating meshes.



The PROFILTER travelling band screens (TBS) are used for the mechanical water treatment at surface water intakes.

The heart of the matter in the design of the PROFILTER TBS is the elimination of hinged joints of the cleaning mesh sections and replacing them with the **patented strainer assembly** consisting of an "endless" mesh band stretched between two toothed rubber carrier belts.

TECHNICAL PARAMETERS OF THE EXEMPLARY PROFILTER TBS:

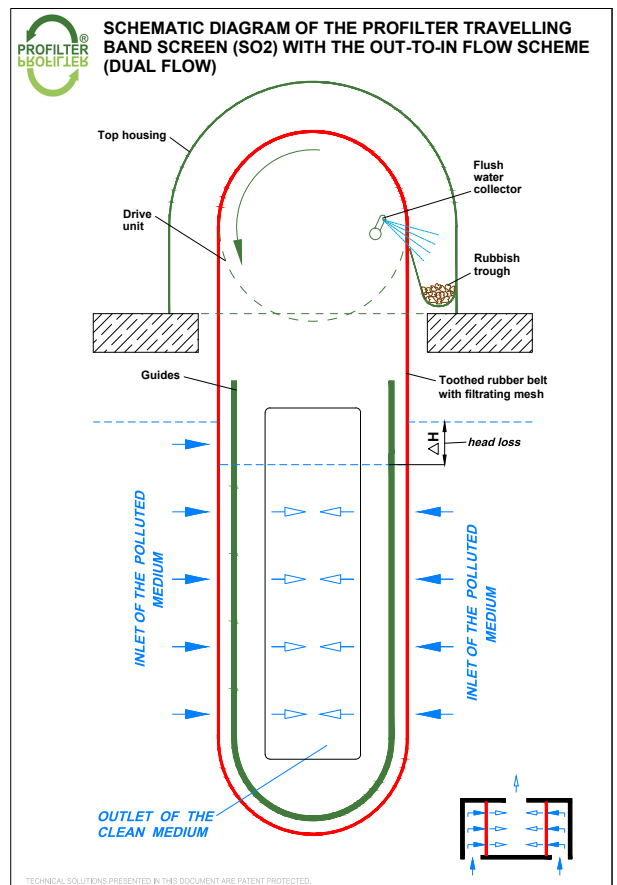
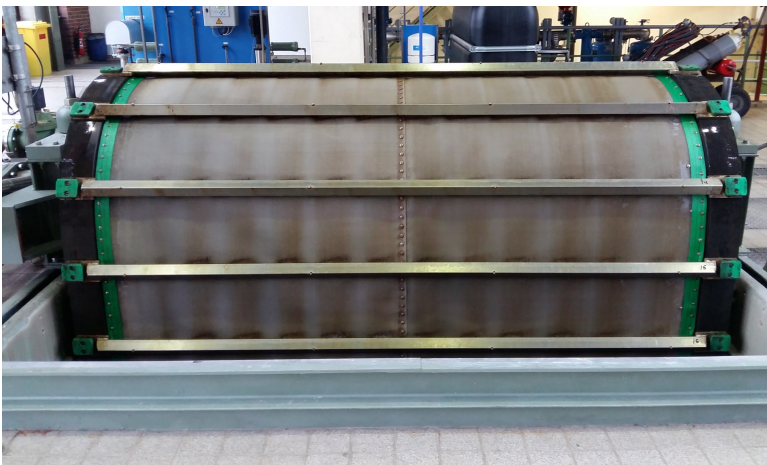
- capacity: ... 60k m³/h
- mesh size: ... 0,5 mm
- screen height: ... ~ 13 m
- screen width: ... ~ 4,5 m



- **CUSTOMIZED DESIGN** – customized dimensions and technical parameters of the devices (practically unlimited immersion depth of the screens), adaptable to the existing building infrastructure
- **SIGNIFICANT COST REDUCTION** – made with a far smaller amount of steel, while providing longer life span and much better cost effectiveness in comparison with other TBS designs
- **GREAT ADAPTABILITY** – installation possible in either new or old, revitalized water treatment facilities
- **PROVEN RELIABILITY AND LONG LIFE SPAN** – eliminating of corrosion by the usage of standard elements made of the stainless steel, solving the problem of wearing of the screen elements exposed to sand and hard particles of trash present in water by the elimination of articulated joints
- **ENERGY EFFICIENCY** – electric motors with 3 to 4 times smaller power consumption in comparison with the devices of old types



- **EFFECTIVE SEALING SYSTEM** – flexible seals between the slide guides and the chamber walls and between the carrier belts and the slide guides which are very tolerant of any surface irregularities of the chamber's walls and which damaged parts can be easily repaired or replaced without draining the screen chamber or making difficult underwater repairs
- **EFFECTIVE SELF-CLEANING SYSTEM** with its own integrated deep-well pump and filter
- **PROCESS OPTIMIZATION** according to the end-user's actual needs – automatic control system
- **STANDARD WATER FLOW SCHEMES** – in-to-out, out-to-in (dual flow), direct
- **CHEMICALLY AGGRESSIVE ENVIRONMENT OPTION**, e.g. for sea water facilities – stainless steel, titanium mesh
- **EXPLOSION-PROOF OPTION WITH ATEX CERTIFICATE**



PROFILER was established in 1992. The company is a manufacturer and supplier of modern devices based on its own patented invention, which have been recognized at prestigious fairs and exhibitions.

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We have extensive experience in the field of mechanical water treatment at surface water intakes with successful implementations in the biggest Polish power plants and CHP plants, chemical and paper industries, oil refineries and municipal services. We realize projects on both the domestic and international markets.



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