

Hubert

Travelling Band Screen



A Hubert travelling band screen is the 'heart' of the 'screening train', often used for (sea)water intakes as part of power plants and desalination plants, where big tidal differences can also play a role. It is more compact than a (vertical) drum screen, but it has still a high capacity. Quite common flow rates are 15.000 m³/h per screen, depending on customer requirements and the local situation at the intake.



Hubert Travelling Band Screen

A Hubert travelling band screen has a compact design

A travelling band screen is typically installed in water intake systems downstream from coarse bar screens. Woven mesh with a diameter of about 2-10 mm is used as relative fine filter medium.

Features and Benefits

- Large flow capacity
- No debris carryover
- High screening efficiency (99%)
- Minimal construction space required
- Big differences between water levels
- High quality and reliable
- Long lifetime (30 years or more)
- Resistant to abrasive water
- (Sea)water lubricated bearing

Standard Dimensions and Materials

- Width: up to 4 m
- Pit depth: to 20 m
- Skid or embedded configuration
- Mesh: opening 2/ 10 mm
- Materials: (coated) carbon steel, stainless steel, (super) Duplex

Design and Construction

Hubert travelling band screens require only a small installation area due to the vertical construction. This type of screen is used in places where the construction area of the total cleaning installation is limited or where big differences occur between water levels.

The band water screen operates on a conveyor belt principle. The 'conveyor belt' is composed of mesh panels that are mounted between two endless heavy-duty transport chains. The chains are driven by two sprockets.

The debris trapped on the screens is removed by spray water jets and discharged through a flushed chute. The drive unit, flushing mechanism and debris hopper are located at deck level. The upper section above deck level is fitted with a metal or reinforced polyester composite cover.

Fish Friendly – Fish Recovery System

The Hubert travelling band screens can be supplied with a fish recovery gutter or channel that allows trapped fish to be removed in a gentle and effective way. These recovery systems are tailor-made for each project.



History

Hubert, founded in 1880, has almost 150 years of experience in design and engineering, in-house manufacturing, installation and service of equipment for water purification and water intake applications. Our engineered products and technical expertise have enabled Hubert to become a major player in the global market for water treatment solutions. We focus on high-quality equipment with a long service life.

Over the years, we have gained an extensive number of satisfied customers and project references all over the world. Our machinery is a crucial part of every production facility and is usually continuous in operation. Our equipment has to operate efficiently and reliably in extreme weather conditions. Hubert's installed base comprises many thousands of installations that have recently been commissioned or that have been in operation for many years.

OUR DIVISIONS

Water Intake Systems

Hubert is market leader in water intake screening systems, used for mechanically clean water extracted from the sea, rivers or lakes. These systems can be found in power stations, petrochemical plants & refineries, desalination plants, drinking water & irrigation plants and industrial production plants requiring a huge demand for process water. We supply complete 'screening trains', including all additional equipment like controls and cathodic protection. We design, engineer, and manufacture our equipment in-house. You will find our projects in both new construction (EPC) projects and renovation and optimization of existing water intakes.



Wastewater Treatment Machinery

Hubert wastewater treatment machinery and (sub) installations are applied in municipal and industrial wastewater treatment plants. Our installations are of high quality and offer a long service life. Clients range from water boards and authorities in the public sector to multinationals in many industries.



Service and After Sales

Keeping your machinery operational, this is the daily work of our Service and After Sales division, which proves its importance by keeping Hubert installations operational anywhere in the world. Founded in 1880, the large amount of projects that Hubert has carried out over the years has resulted in a huge installed base of equipment. Many of these are still in operation! We supply parts but also provide optimization and renovation of your existing equipment.



High-Spec Steel Assemblies

We have been supplying both components and assembled parts to the offshore industry and other applications within the shipping and dredging industry for many years. Complex machined welding constructions, (sub) assemblies and complete products are part of our program. For this market we work according to customer (mechanical) specifications. Our scope includes parts in single pieces, series as well as assembled products.



Over 250 years of experience in water handling and treatment

From water intake systems to water cooling, from water management to wastewater treatment, pumping stations, hydropower and prize-winning innovations in the field of decentralised wastewater treatment. DeSaH, Hubert and Landustrie have joined forces. From Sneek in Friesland, our experts develop and manufacture future-proof solutions with an above-average lifespan.

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HUBERT
water treatment installations

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