

HUBERT

water treatment installations



Coarse screens

Trash rakes

Drum screens

Fine screens

Hubert chain-operated coarse screen

The Kobar coarse screen is a front raked, chain operated coarse screen. It is designed for automatic pre-cleaning of surface water or wastewater influent

The Kobar coarse screen is used particularly for removing debris from a water intake with a low water level.

The Kobar is a pre-assembled unit for direct installation at site. The rake is mounted in and operated by two chains. The rake is in open position when moving downwards.

At the bottom of the channel the rake closes and removes all debris from the coarse screen when moving upwards.

At deck level the debris is removed from the rake by a scraper and discharged on a conveyor belt, concrete gutter or in a container (choice to be made by client).

Advantages

The advantages of the Kobar coarse screen are:

- Only the rake enters the water. Chains and bearings etc. remain above water level
- Easy to install
- The bar screen is cleaned in one cycle over the complete bar screen width.
- Low installed power, low energy cost
- Low maintenance

Standard dimensions

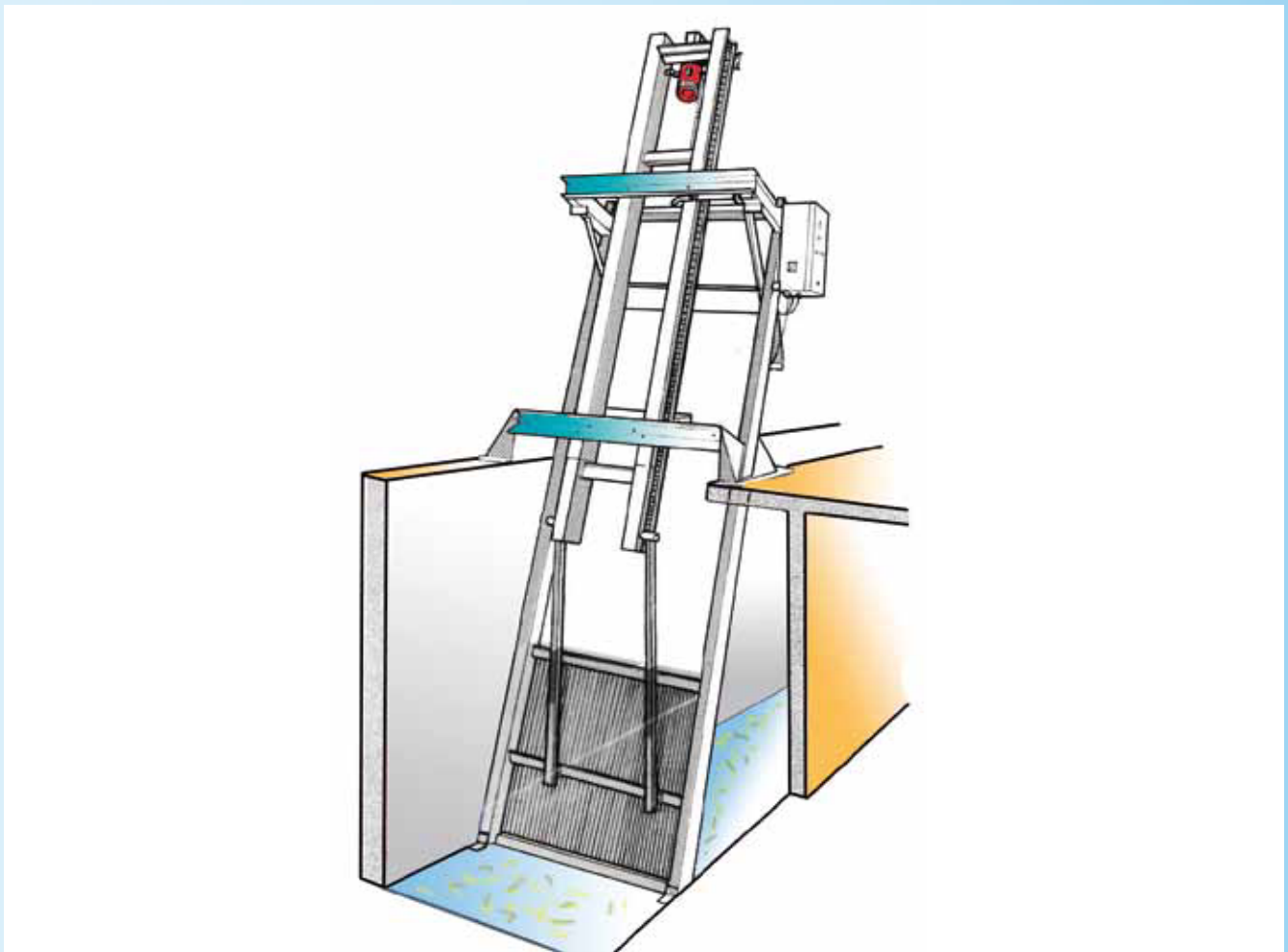
Width: up to 4 m.

Depth: up to 12 m.

Bar space: from 6 up to 20 mm.

Installation angle: from 70° up to 90°

Specific dimensions or materials on request.



Hubert chain-operated coarse screen

Hubert chain-operated coarse screen

The Dokwed coarse screen is a back raked, chain-operated coarse screen. It is specifically designed for the removal of large volumes of debris, such as heavy weed, reed, timber, plastics and other floating materials, out of water intake channels.

The Dokwed coarse screen consists of a number of revolving rakes, which remove the debris from the bottom of the screen in an upwards movement. The rake tines protrude 30 or 50 cm through the bar screen. At the curved top section the rake tines move out the bar screen and the debris is discharged on a belt conveyor or in a trash hopper.

The Dokwed is a pre-assembled skid unit for direct installation at site. The design is simple and functional with a maximum cleaning effect.

The Dokwed is suitable for seawater and fresh water conditions.

Advantages

The advantages of the Dokwed coarse screen are:

- Ideal for removing large amount of debris in a short time
- All moving parts are located at the clean side of the bar screen
- Easy to install
- Low maintenance
- No grease points - greased for life

Standard dimensions

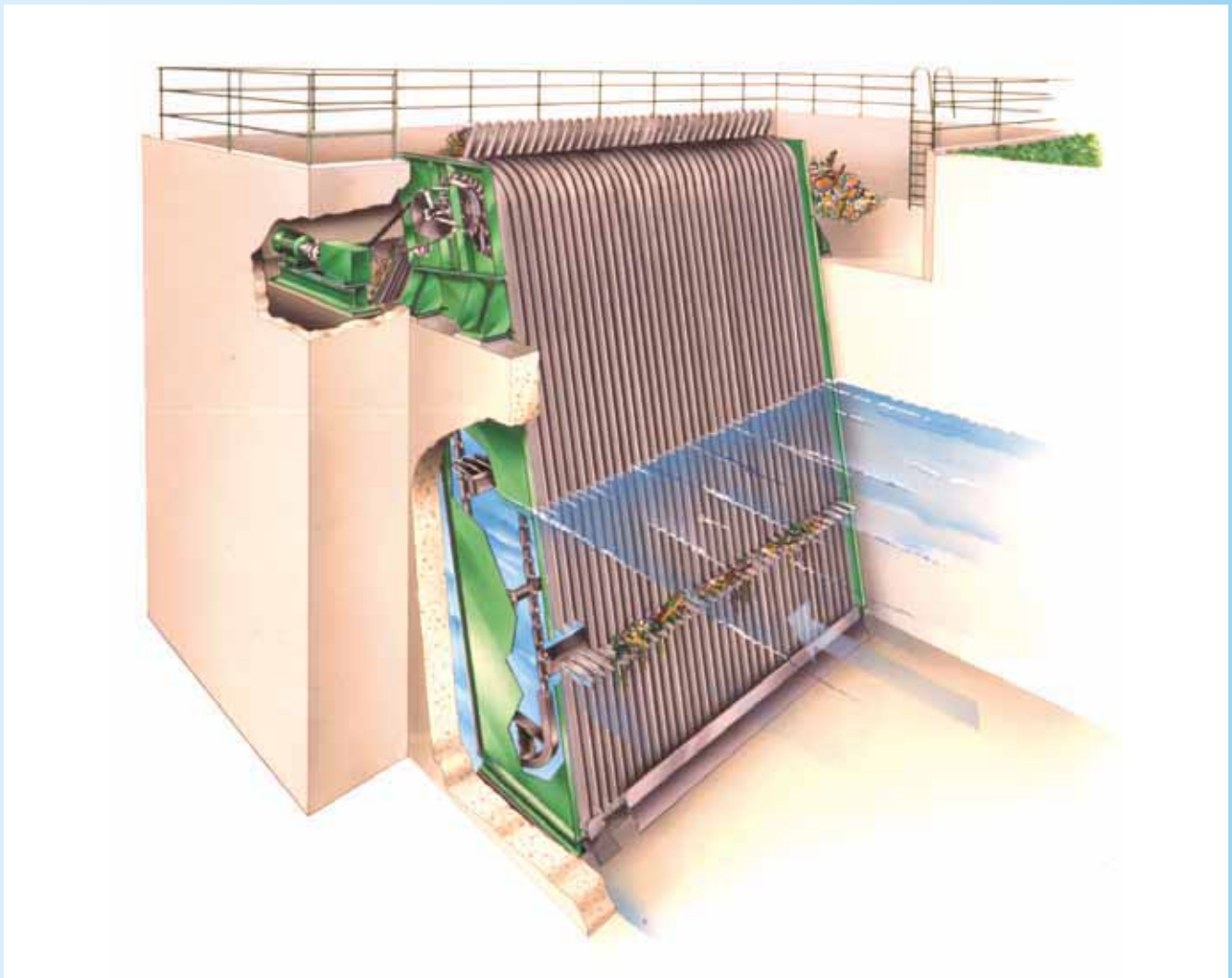
Width: up to 5 m.

Depth: up to 4 m.

Bar space: from 40 up to 100 mm.

Installation angle: from 75° up to 90°

Specific dimensions or materials on request.



Hubert Trash gripper

The Trash gripper is a gantry crane with a hydraulically operated gripper. It removes debris from a static coarse screen.

The Trash gripper removes the debris from the coarse screen in opened position when moving downwards .

At the bottom of the channel the gripper closes itself and is then lifted out of the water by the gantry crane. The gripper then discharges the debris in a container, truck or on a conveyor belt. (choice to be made by client).

The cleaning process can be executed automatically and semi-automatically.

Advantages

The advantages of the Trash gripper are:

- Wide range
- Capable of removing debris from multiple water intakes/ channels in-line.
- Capable of removing large debris
- Moving parts are above water level in rest position
- Low installed power, low energy cost
- Low maintenance

Standard dimensions

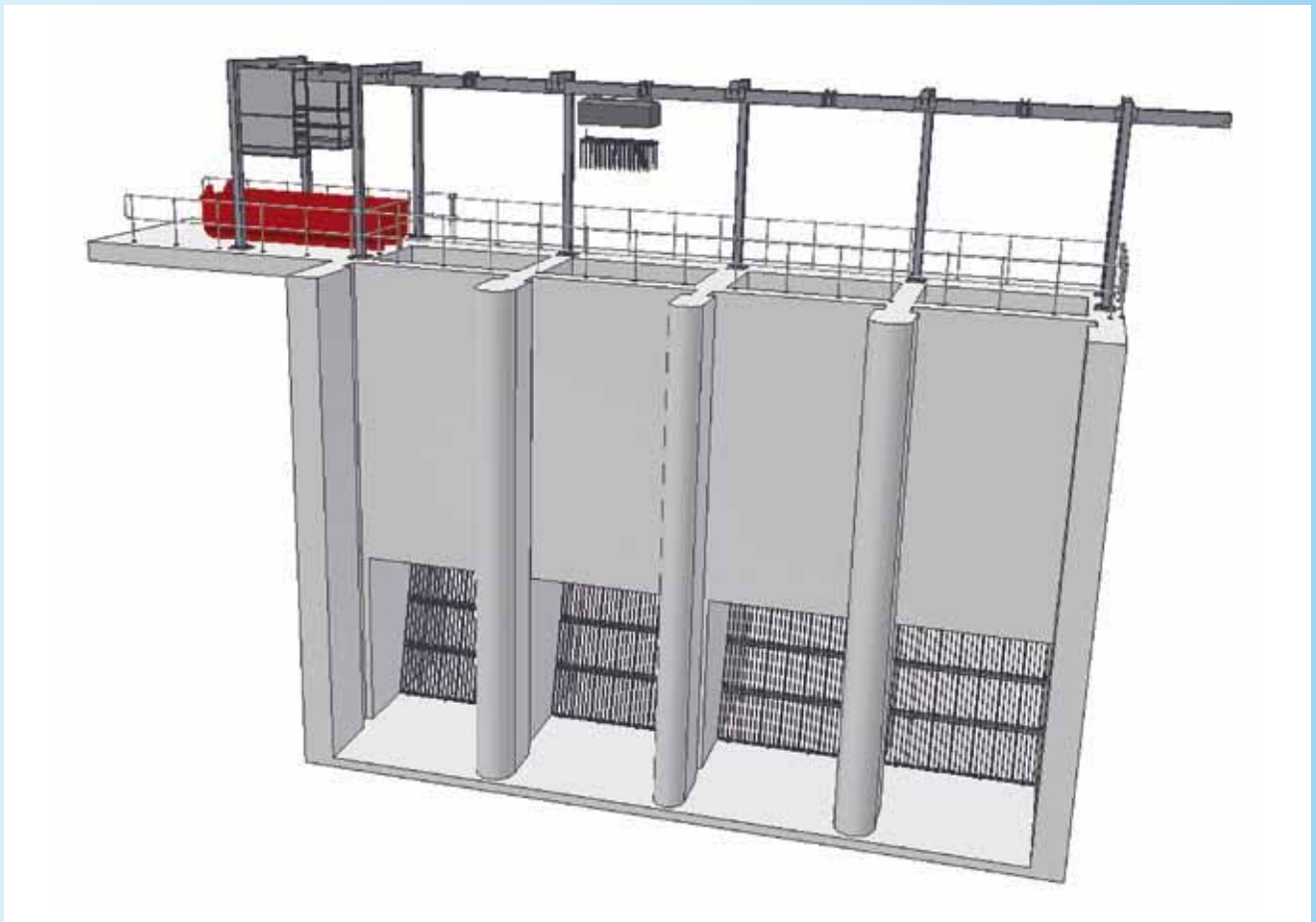
Gripper width: up to 2 m.

Gantry width: unlimited.

Depth: unlimited.

Bar space: from 20 up to 100 mm.

Specific dimensions or materials on request.



Hubert drum screen / horizontal

The Horizontal Drum screen is designed for a single exit flow pattern. The water flows through the mesh panels of the Drum screen at the circumference and the filtered water exits the drum through the concrete outlet.

The dirt particles, which are trapped on the outside of the screen panels, will be removed by high pressure spray water and discharged through the trash hoppers.

The cleaning process can be executed automatically and semi-automatically.

The drum is placed in a concrete pit or tank and rotates on a stationary shaft.

All Hubert rotary drums screens are executed with maintenance free (sea-) water lubricated slide bearings. Furthermore, the horizontal drum screen is executed with a special ring gear and drive pinion, which are made of a special wear resistant polyamide.

The Horizontal Drum screens are very suitable for use in cooling water intake systems. They are successfully being used in:

- Energy Power plants

- Oil Refineries
- LNG plants
- Chemical/industry plants

The smaller units are ideal for:

- Filtration of process water
- Pre-filtration of waste water
- Pre-filtration of surface water for potable water production
- Filtration of feed water in desalination plant

Advantages

The advantages of the Horizontal Drum screen are:

- Light, but robust and stable construction
- Resistant to corrosion
- Reliable
- Low maintenance
- Water lubricated bearings
- Environmental friendly
- Long lifetime (30 years or more)

Standard dimensions

Capacity: between 100 and 10,000 m³/hr.

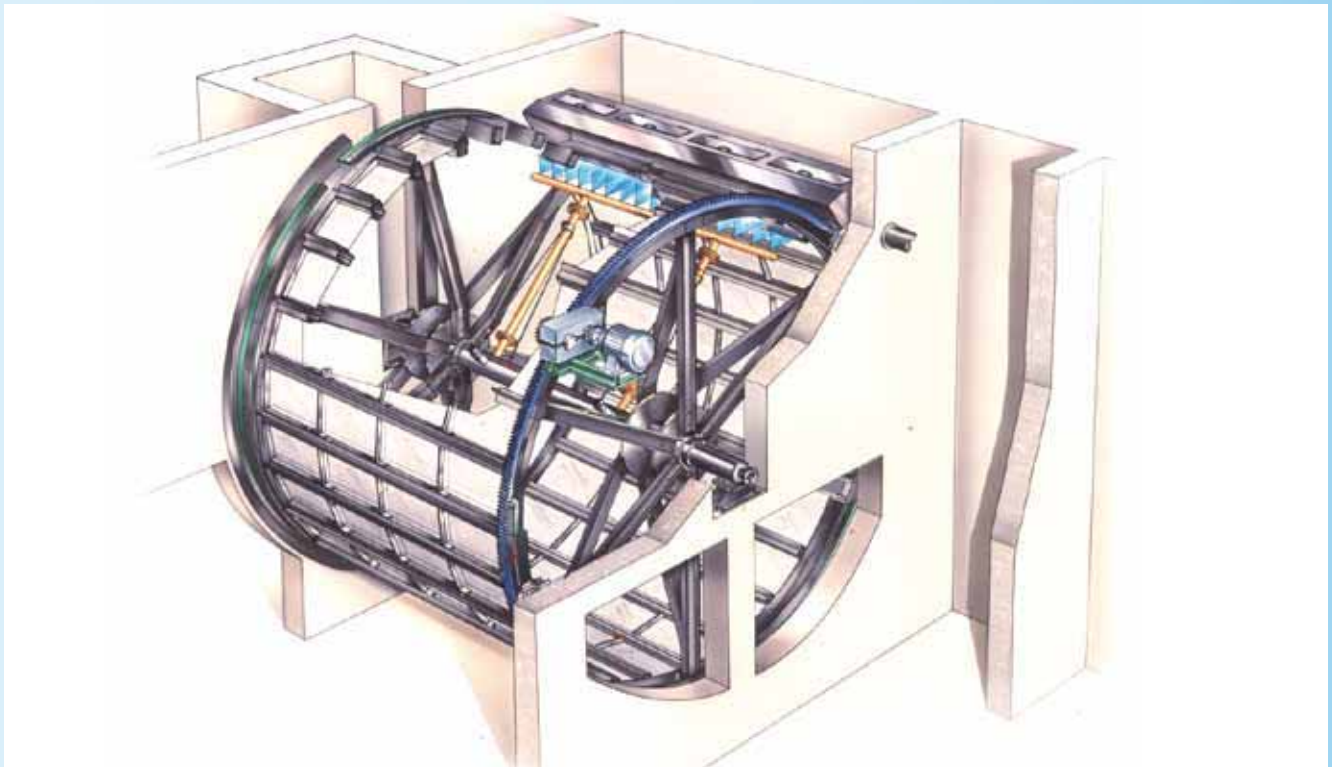
Mesh opening: between 2x2 and 10x10 mm.

Drum length: up to 6 m.

Diameter: up to 12 m.

Material: coated or stainless steel

Specific dimensions or materials on request.



Hubert drum screen / vertical

The Vertical Drum screen is designed with A-shaped spokes. These specially designed A-shaped spokes provide a light but robust and stable construction and also ensure a very accurate seal against the channel walls.

Even the large diameter (>12 m) Vertical Drum screen is, due to this accurate seal, suitable for filtration with 2x2 mm.

All Hubert rotary drums screens are executed with maintenance free (sea-) water lubricated slide bearings. Furthermore, the vertical drum screen is executed with a special ring gear and drive pinion, which are made of a special wear resistant polyamide.

Hubert drum screens are available for different flow patterns.

The Vertical Drum screen is a rotating drum screen, provided with fine mesh screen panels.

The dirt particles, which are trapped on the screen panels, will be removed by high pressure spray water and discharged through the trash hoppers. The cleaning process can be executed automatically and semi-automatically.

The Vertical Drum screens are very suitable for use in cooling water intake systems. They are successfully being used in:

- Energy Power plants
- Oil Refineries
- LNG plants
- Chemical/industry plants

Advantages

The advantages of the Vertical Drum screen are:

- Light, but robust and stable construction
- Large flow capacities
- Resistant to corrosion
- Reliable
- Low maintenance
- Water lubricated bearings
- Environmental friendly
- Long lifetime (30 years or more)
- Fish removal system

Standard dimensions

Capacity: between 10,000 and 120,000 m³/hr.

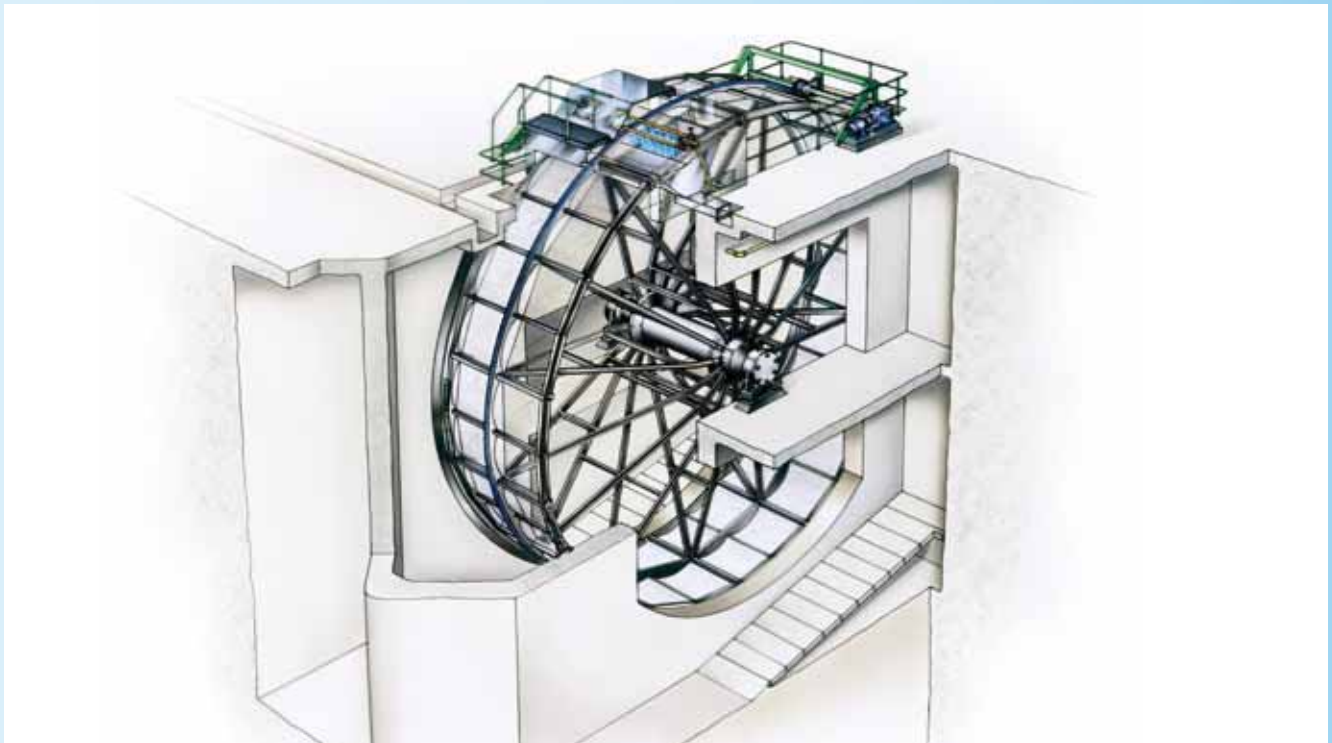
Mesh opening: between 2x2 and 10x10 mm.

Drum length: up to 5 m.

Diameter: between 5 and 20 m.

Material: stainless steel AISI 304/316/316Ti

Specific dimensions or materials on request.



Hubert micro screen

The Micro screen is developed for very fine filtration of surface, process and recirculation water.

The Micro screen is a rotating drum screen, provided with fine mesh screen panels or a filter cloth.

The dirt particles, which are trapped on the screen panels, will be removed by high pressure spray water and discharged through the trash hoppers and the hollow shaft.

The cleaning process can be executed automatically and semi-automatically.

Application

The Micro screen is suitable for:

- Pre-treatment of waste water
- Pre-treatment of potable water
- Effluent polishing
- Process water filtration (recycling)
- Feed water filtration for desalination plants
- Cooling water filtration

Advantages

The advantages of the Micro screen are:

- Resistant to corrosion
- Very fine filtration possible
- Reliable
- Low maintenance
- Water lubricated bearings
- Environmental friendly
- Long lifetime

Standard dimensions

Capacity: between 40 and 1500 m³/hr.

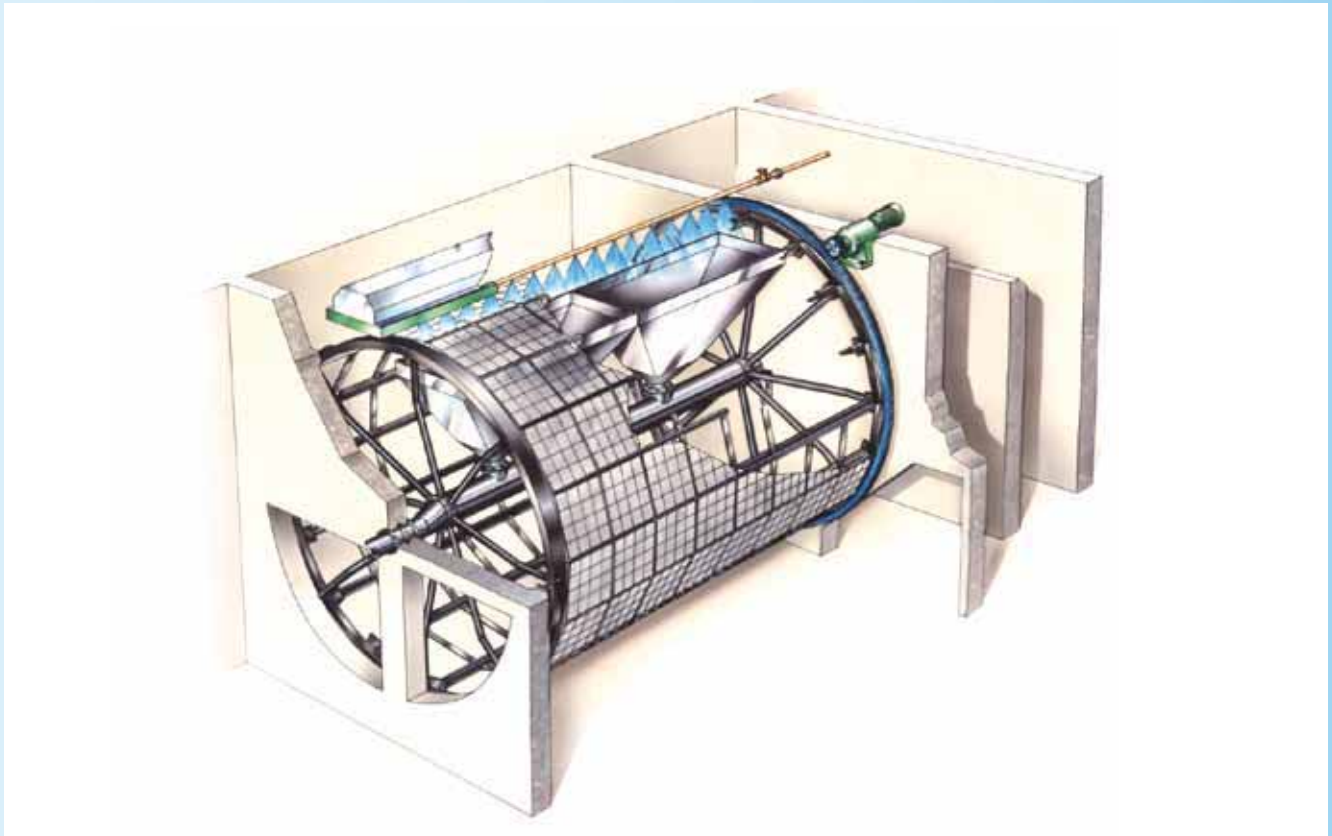
Mesh opening: between 11 and 500 µm.

Drum length: up to 6 m.

Diameter: between 0,7 and 3,5 m.

Material: stainless steel AISI 304/316/316Ti

Specific dimensions or materials on request.



Hubert Travelling band screen

The Hubert Travelling band screen is designed for fine filtration of surface and process water. It is fitted vertically in the inlet channel and therefore occupies only a small floor area. Band screens are applied where a short water intake is necessary and where significant variations in surface water levels can occur.

The principle of operation is based on a conveyor belt. However, the belt is replaced by screen panels, which are mounted between two endless transport chains. The chains are driven by two sprockets.

The debris, which is trapped on the screen panels, is removed by high pressure spray water and discharged through a chute.

The cleaning process can be executed automatically and semi-automatically.

The drive unit and spray water pipe are mounted above deck level under a steel or reinforced plastic housing.

Special models can be provided with facilities for removing and discharging other debris, such as jellyfish, seaweed etc..

Standard dimensions

Capacity: between 2,500 and 60,000 m³/hr.

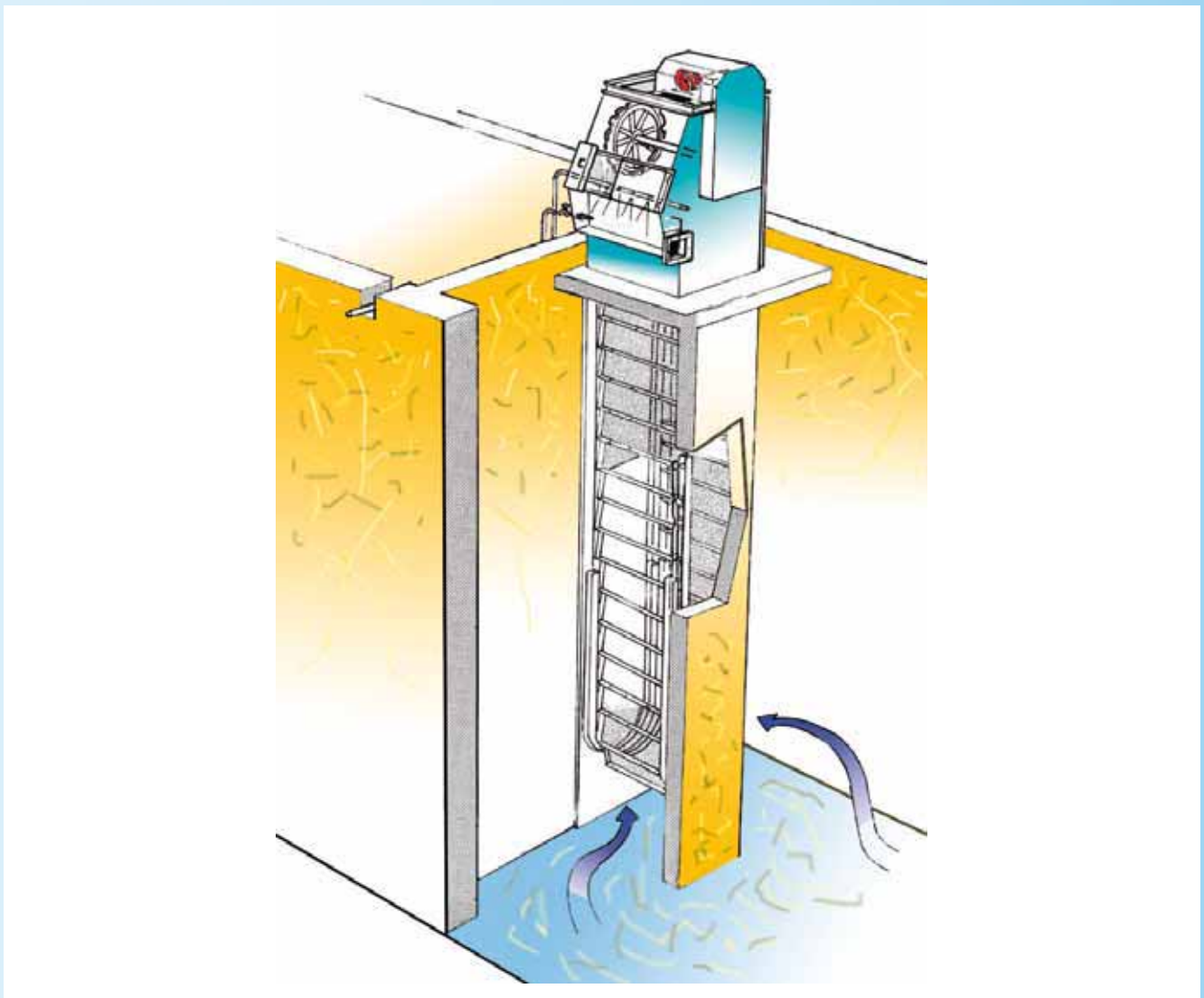
Mesh opening: between 1 and 10 mm.

Pit depth: up to 16 m.

Width: up to 4 m.

Material: Steel coated or stainless steel

Specific dimensions or materials on request.



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