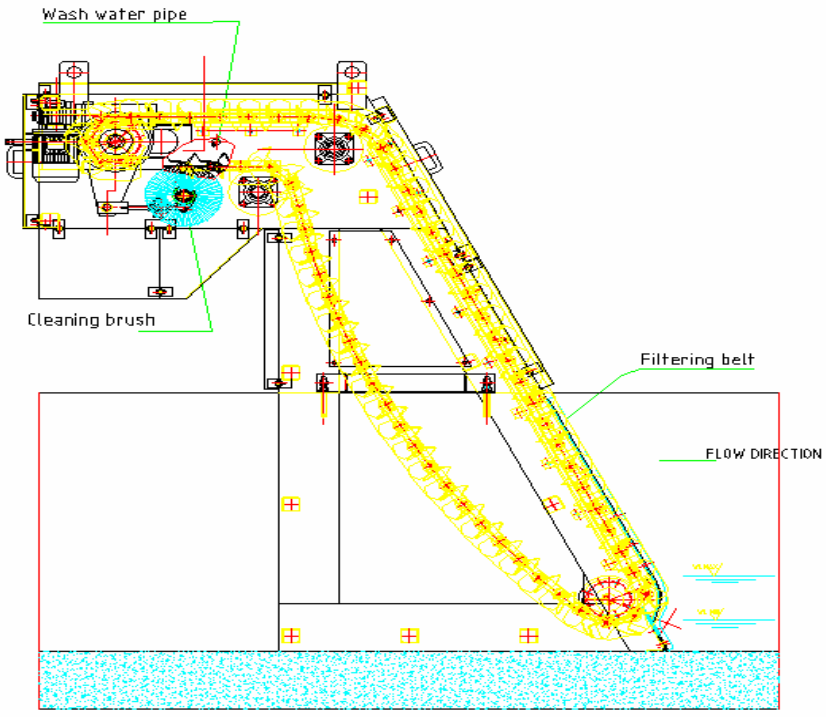
FINE SCREEN

WITH FILTERING ELEMENTS



Model **EM31G**

Spacing 3 or 6 mm.

FINE SCREEN

The EM31G automatic screen is a self cleaning continuos belt screen.

This type of screen can have a spacing between the filtering elements or teeth of 3 or 6 mm.

The material captured by the screen is continuously removed by means of these of self-cleaning teeth.

The screenings are discharged into a hopper which is also installed above water level.

The filtering screen is cleaned by:

- a brush operated by the same geared motor which drives the screen
- an independent motorized brush (with variable revolutions) – optional
- a double washing system
- the track itself of the belt casues the filter teeth to clean themselves

The screen is designed to be installed in a concrete channel with the correct section. The screen is supplied completely assembled and ready to be placed in the channel.

TECHNICAL AND DIMENSIONAL DATA

1.	Channel width	: mm.
2.	Channel height	: mm.
3.	Discharge height from channel bottom	: mm.
4.	Distance between the filtering elements	: mm.
5.	Peak flow rate	: m^3/hr.
6.	Regular design flow rate	: m^3/hr.
7.	Water level in the channel with peak flow and regular design flow	: mm.
8.	Water speed in the channel with peak flow	: m./sec.
9.	Water speed in the channel with design flow	: m./sec.

If we know the figures from item 1 to 9, we can calculate:

10.	Head loss at the max. flow rate	: bar
11.	Head loss at the regular design flow rate	: bar
12.	Screening speed	: m./min.

DESIGN AND MANUFACTURE CHARACTERISTICS

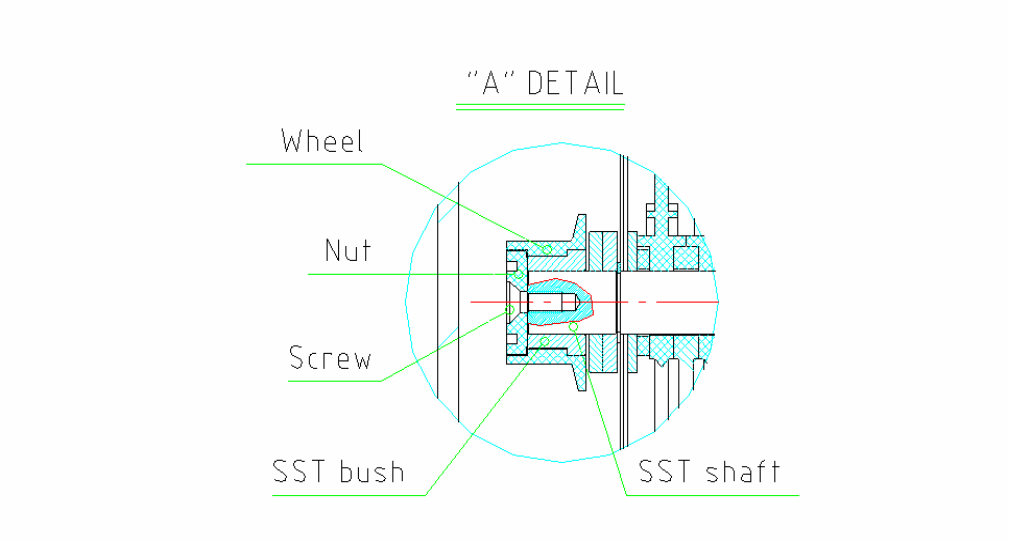
Wheels

Sand/grit, which is always present in water, may cause wear on both of *the side wheels* and of *stainless steel shafts* which hold the cleaning teeth.

Our fine screen is equipped with wheels rotating on bushes which are fixed to the shafts.

The wheels are made of plastic material, mass-produced and consequently have a low cost and can be replaced easily.

The bushes protect the shaft and assure a high resistance to wear thanks to the hard material used for manufacturing.



3. MATERIALS

- Frame, chain, shafts : AISI 304 or 316
- Filtering elements : acetalic resin
- Wheels : acetalic resin