



Especialistas en mecánica de fluidos

## Band Screens



### INTRODUCTION:

The **band Screen** built by **FILTRAMAS, S.A.** are specifically designed for continuous operation in fresh water intakes of rivers, dams or sea. They are of robust and durable design and in the double flow model guarantee an optimal filtration without the possibility of larger size solids of larger size than the installed light passing through..

### DESCRIPTION:

The **band screen** are installed in channels (single flow or direct flow model), or in pitchers (double flow model). The **band screen** is composed by the following elements:

- **STRUCTURE:** The structure of the **band screen** is composed by two sets of guides for the panel support chains. Each set is made up of a lower curve and one or more intermediate sections, bracing the uphill and downhill rails of the same section together to keep the correct measurement and alignment between them.
- **FILTERING PANELS:** The support frames of the filtering mesh are of mechanically welded construction, guaranteeing a distance between them never superior to the one allowed by the mesh size. A frame crossbar is designed and dimensioned to act as a bucket, thus allowing more effective removal of the brush to the collection channel provided on the working grounds.
- **PANEL CHAIN:** The main chain carries the filter frames and is provided with steel bolts and bushings, with synthetic resin sliding rollers. The chain is tensioned from the upper head by a tensioning system and is equipped with special locks to ensure a proper seal between the moving parts and the static structure.



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- **UPPER HEAD:** The upper head connects the sliding guides of the main chain and supports the band grille drive assembly as well as the internal washing tube. The drive unit, consisting of a shaft, geared motor and drive gears, is installed on top of it.
- **COVER:** For machine protection.
- **WASHING TUBE:** The grille is equipped with a washing collector with spray nozzles.

### GENERAL DIMENSIONS:

