



Especialistas en mecánica de fluidos

Chain Scraper



INTRODUCTION:

The CP-6 chain scraper manufactured by **FILTRAMAS** is the result of an extensive experience in this type of system developed in the United States and widely used in the European Nordic countries. The chain scraper can be used for bottom sweeping, surface sweeping or both, always made of corrosion-resistant materials.

DESCRIPTION:

The chain sweeper consists of the following elements:

- A **coaxial gearmotor unit**, with high transmission efficiency, installed on a tensioning bed and protected by a chainguard.
- **Drive chain**: It can be made of plastic links with stainless steel shaft or completely made of stainless steel, depending on the power. Its mission is to transmit movement to the sweeper's drive shaft.
- **Drive shaft**: Consists of a stainless steel tube to which the rim for the drag chains are attached. It has two stumps at its ends which are inserted into two DUROGLISS bushings. The rim is installed on one side of the shaft, where the transmission chain operates.
- **Driven axles**: Up to three driven axles can be installed depending on the scraper configuration and application. One of them is equipped with a chain tensioning system. They are made of stainless steel and are mounted on DUROGLISS bushings.
- **Transmission Rim**: Drive Rims are manufactured in ST-52, AISI-304 and AISI-316, and the driven ones in high molecular weight polyethylene.
- **Conveyor chain**: ROTARY type, with angled link and made of corrosion-resistant plastic material. The links are made of glass-fibre reinforced acetal resin and the shafts are made

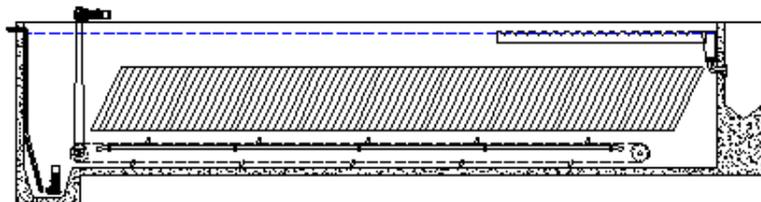
of PBT. The breaking load is approximately 20 KN. The chain incorporates several couplings, depending on the design, for the assembly of the sweeping scrapers.

- **Sweeping scrapers:** They form an U of 180x80mm, built in GRP with white gel coat finish. The maximum permissible span is 6 m.
- **Sufferers:** Provide a sliding surface for fiberglass protection. Made of plastic material.
- **Sliding guides:** The scrapers slide on stainless steel or polyethylene guides placed in the civil works. They prevent excessive buckling in the return or ensure the sweeping of the floats, as the case may be. The bottom guides are embedded in the concrete.
- **Screws:** All screws used are made of AISI-304 or AISI-316 stainless steel, with self-locking nuts.

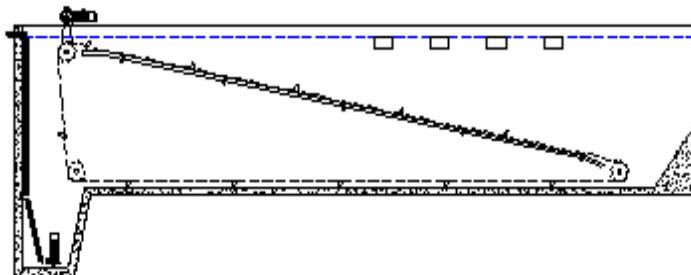
GENERAL DIMENSIONS:

FILTRAMAS has four different models depending on the application:

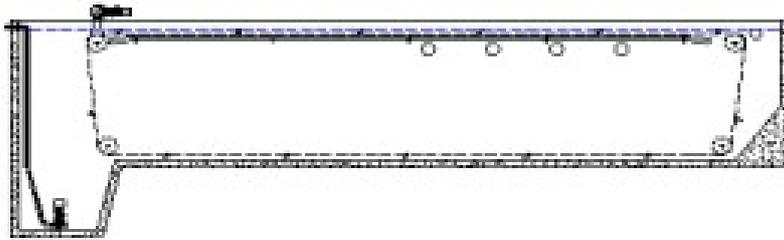
1. Two-axis bottom scraper: Mainly used in the case of superior occupancy by means of lamellas. The chain tension and system check must be carried out by emptying the tank during maintenance stops.



2. Three-axis bottom scraper: The chain tension and system check can be carried out from the upper area, as the scrapers reach the surface of the tank.



3. Four-axis system with bottom and floating scraper: The removal of the floats is carried out by means of a rotating sensor.



4. Two-axis system with floating scraper: The removal of the floats is carried out by means of a rotating sensor or by means of a ramp.

