

# SMC -Multi-Rake Bar Screen



The Coarse Screen SMC – MULTI RAKED BAR SCREEN is the ideal machine for the pretreatment of the wastewater. It represents the best solution as a first step in a forefront depuration plant.

The SMC consist in a Stainless Steel frame, developed for an “in channel” installation with a 75° inclination.

The filtration zone, placed in the bottom part, is made by equidistant stainless steel bars.

The coarse waste present in the wastewater (water that needs to be processed) is blocked by the bars of the filtering zone and accumulates in the bottom of the frame, until the consequent increase of water level activates the cleaning system through rakes.

The rakes are developed to fit perfectly with the filtration bar spacing and they are connected to a transmission chain moved by the gear motor placed on the top of the machine.

When the gear motor starts working, the rakes take the coarse waste from the bottom of the channel and carry it to the discharge outlet placed on the top.

## DESCRIPTION

- Manufacturer: FLUITECO
- Model: SMC
- Material: Stainless Steel
- Surface Treatment: Pickled & passivated

The SMC unit allows to separate solids from liquid. This unit is the perfect equipment to screen an effluent containing solids coming from municipal or industrial wastewater. The versatility of the SMC allows to separate solids with different bar spacing (from 6 mm to 100 mm).

The separation process starts with the effluent arriving into the channel where SMC screen is installed. SMC screen can work with level sensor and/or timer. The solids greater than the spacing between the bars stop, instead of the water containing smaller solids pass through the bars. When the screen motor starts, the rakes/combs provide to clean the spacing between the bars and at the same time they lift up the solids until the discharge zone. The discharge zone is composed by a comb cleaner that provides to clean the combs and to discharge at the same time the solids through the discharge chute.

\* Sizes and lengths present in this represents our standard. After the approval of the present offer, a drawing will be based on FLUITECO project standards. This drawing, called "for approval", will be submitted to the customer who can check every single length and/or specifications. Once approved, the drawing will be the reference for final production.

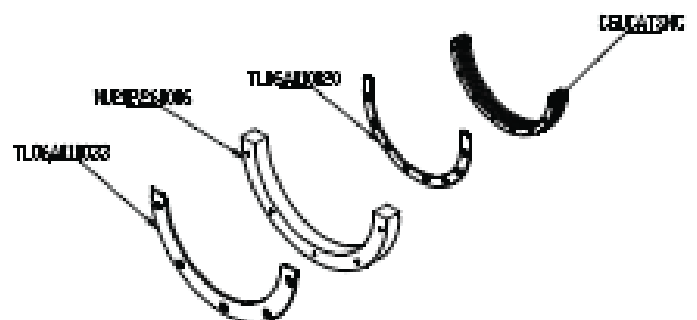


## DESIGN WITHOUT LOWER SPROCKETS

SMC multi raked bar screen is designed without lower sprockets to avoid every possible blockage of solids in that area. Screen is provided with lower chains driving guides.

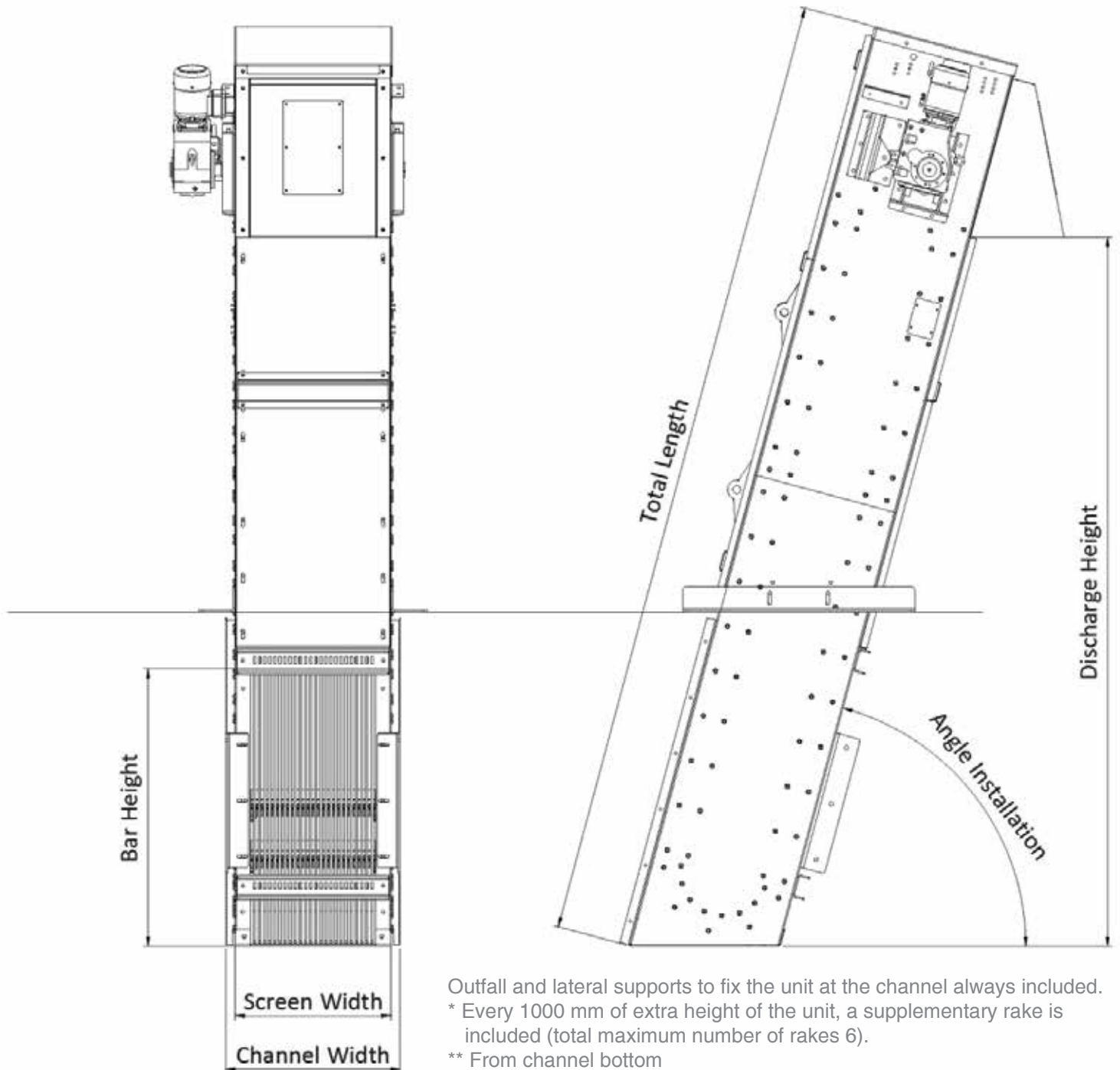
## ROLLER CHAIN

Heavy duty roller chain is utilized in all SMC range of screens to grant the best performance of the rakes/combs



# SMC- STANDARD DIMENSIONS

MODEL	SMC04	SMC06	SMC08	SMC10	SMC12	SMC14	SMC16	SMC18	SMC20
Channel width (mm)	400	600	800	1000	1200	1400	1600	1800	2000
*Total length (mm)	3350	3350	3350	3550	3550	3550	3550	3550	4050
**Discharge height (mm)	2300	2300	2300	2500	2500	2500	2500	2500	3000
Screen width (mm)	370	570	770	970	1170	1340	1540	1740	1940
Bars height (mm)	600	600	600	800	800	800	800	800	1300
*Number of rakes (n°)	2	2	2	2	2	2	2	2	2
***Angle installation	75°	75°	75°	75°	75°	75°	75°	75°	75°



Outfall and lateral supports to fix the unit at the channel always included.  
 \* Every 1000 mm of extra height of the unit, a supplementary rake is included (total maximum number of rakes 6).  
 \*\* From channel bottom  
 \*\*\* Standard inclination

## SMC- Renderings

