

MULTI RAKE BAR SCREEN

Multi rake bar screen is a mechanically cleaning screen which is installed in the inlet works of treatment plants, pumping stations and water inlet structures to capture solid materials which otherwise would be harmful to following processes and to the downstream equipment. Clogging possibility is minimized by using several rakes which are lined on a pair of eddless chain instead of one rake which is operated by an arm. Screen opening can be manufactured up to 5 mm, so it can be efficiently used for fine screening applications which need small screen opening.

Multi rake bar screen consists of following main parts;

Screen frame

It is the main structure of screen and made of standart sectional or folded steel plate bent in U shape. The whole framework can be fabricated of mild steel with epoxy coating or hot dip galvanized or in stainless steel.

Screen bars

They are manufactured from standard bars and bolted to frame. Bars are designed as rectangular or trapezoidal section depending on application. Carbon steel and stainless steel material alternatives are available.

Dead plate

It is formed from steel or stainless steel sheet and fixed to upper main body by bolts. It is connected to discharge chute by welding.

Discharge chute

This part helps captured screenings to drop to a conveyor or a container. It is made of steel or stainless steel sheet and fixed to the dead plate by welding.

Rake

Rakes are manufactured from steel or stainless steel and lined up on to a pair of endless chain. Rake edges are manufactured from PE to prevent friction between two metal parts for large bar openings. The PE part is mounted to rake via bolts, so it can be replaced when the part is damaged or worn out.

Wiper

It is designed to clean the rake when discharging debris to the chute. Manufactured from steel or stainless steel wiper has PE edge same as rake. The PE edge can be replaced when damaged.

Chain mechanism

It contains two pieces endless chain and two pieces sprocket which are located at upper section of the mechanism.

Drive unit

Drive system is consisting of a motor which has IP 55 class protection as standard and a gearbox to reduce motor output speed and supply suitable traveling speed for rake system. It is directly mounted to drive shaft.

Design data:

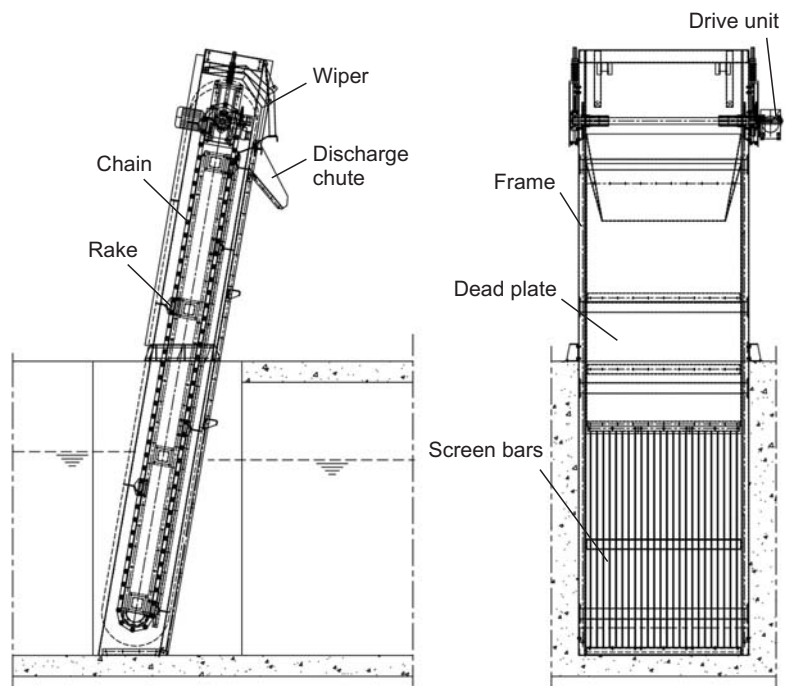
Screen channel width	: 600 - 3500 mm
Screen channel depth	: up to 5000 mm
Discharge height	: 800 mm - 2800 mm
Bar extension	: 200 mm
Screen opening	: 5 - 50 mm
Installation angle	: 70 - 80 degree
Rake travel speed	: 4 - 8 m/min

Accessories:

- Torque switch

Optional accessories:

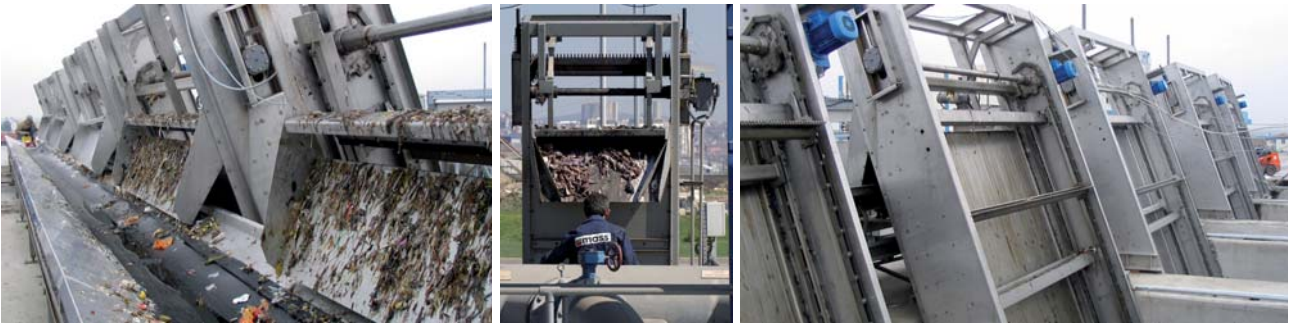
- Ultrasonic differential level measurement
- Local control panel
- Cover



MAN 2040 06.09-E



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