



Sismat Uluslararası  
Arıtma Makinaları  
İnşaat Mühendislik  
Sanayi ve Tic. A.Ş.



**TRAVELLING  
GRAB SCREENS**



# TRAVELLING GRAB SCREENS

Travelling grab screens are a type of the most suitable screens used to remove large quantities of debris, preferred as coarse screens especially in the high depth channels. They have a cleaning grab that can move horizontally and vertically when the screens are too wide or when it is desired to clean a large number of parallel screen channels.

The cleaning mechanism is full-automatically operated, controlled by time or level sensors. Manual operation is also possible.

Sismat Uluslararası Travelling Grab Screens are mainly made up of a supporting frame in steel, monorail supported by a pillar group, screen media, grab unit, discharge unit and positioning sensors.

They are the most economical solutions under the conditions that channel width is too high or it is required to clean several screen channels.

## FEATURES AND BENEFITS OF SISMAT ULUSLARARASI TRAVELLING GRAB SCREENS

- Suitable for use in deep and wide channels
- No moving parts under water
- High waste discharge capacity
- Possibility to take screenings away at a distance relatively high
- Available for multi-screen operation per one unit
- Automatic cleaning by time or level sensors
- Compact design
- Easy installation
- Low investment and operation cost
- Low maintenance cost

## APPLICATIONS

- Water treatment plants
- Domestic and industrial wastewater treatment plants
- Water intakes from sea, lakes and rivers
- Pumping stations

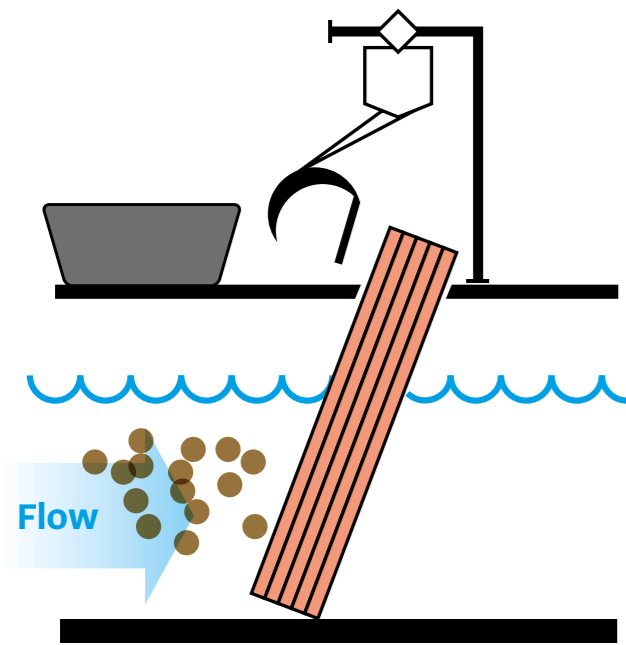
## WORKING PRINCIPLE

The grab is stopped automatically or manually when it reaches each screen group and, the lifting system lowers the grab downward in the open position. The screenings which accumulate on the screens are collected by the grab and the grab is closed when it reaches the bottom point of the screen. The collected wastes are moved to ground level with the operation of lifting system and discharged into a container. The open/close movements of the grab are controlled by a hydraulic unit.

## OUR TRAVELLING GRAB SCREEN SPECIFICATIONS

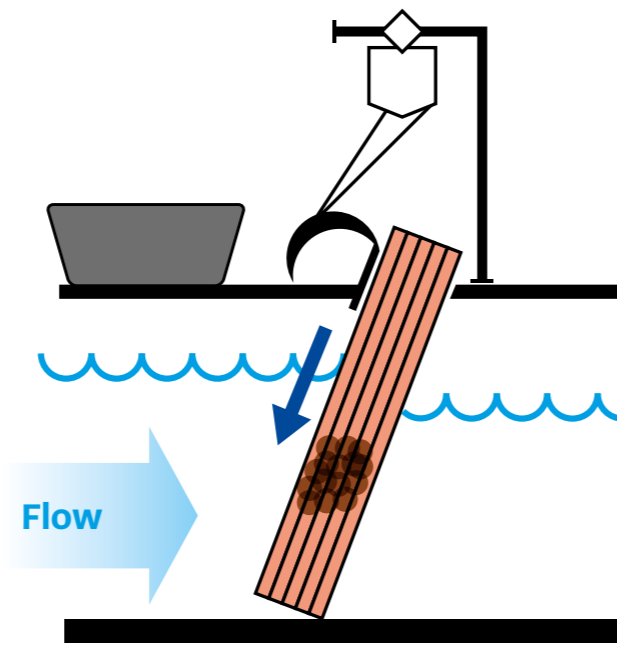
Specifications	
Bar spacing	20 mm -150 mm
Mounting angle	60°-90°
Grab speed	5-10 m/min
Waste discharge height (from operational level)	1500 mm
Channel width	5000 mm

\*For special dimensions, please consult Sismat Uluslararası Sales Engineers.



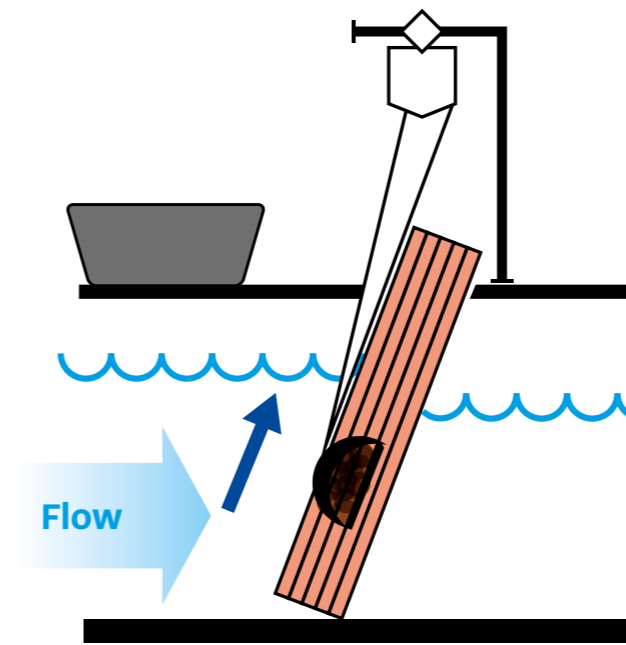
1

Water flows through the screen bars.



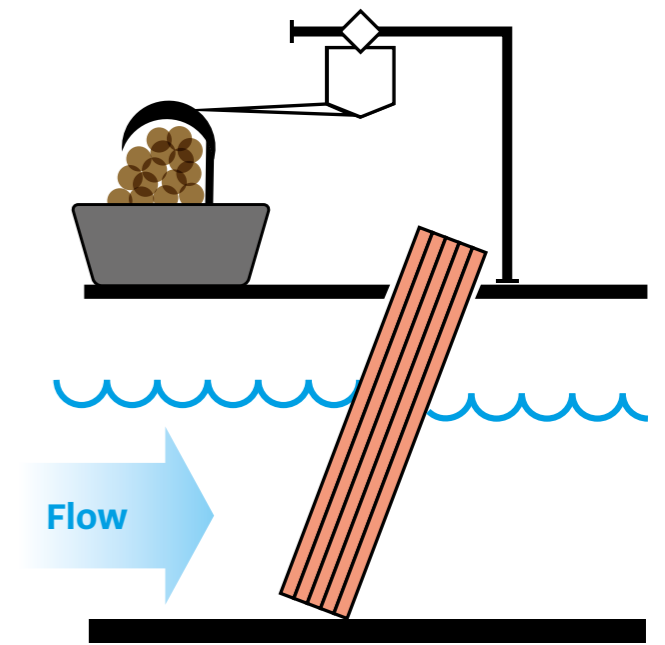
2

Solid materials are collected on the bar rack. So, the screen needs to be cleaned to keep working properly. That situation activates the cleaning mechanism and the grab starts to move downward in the open position.



3

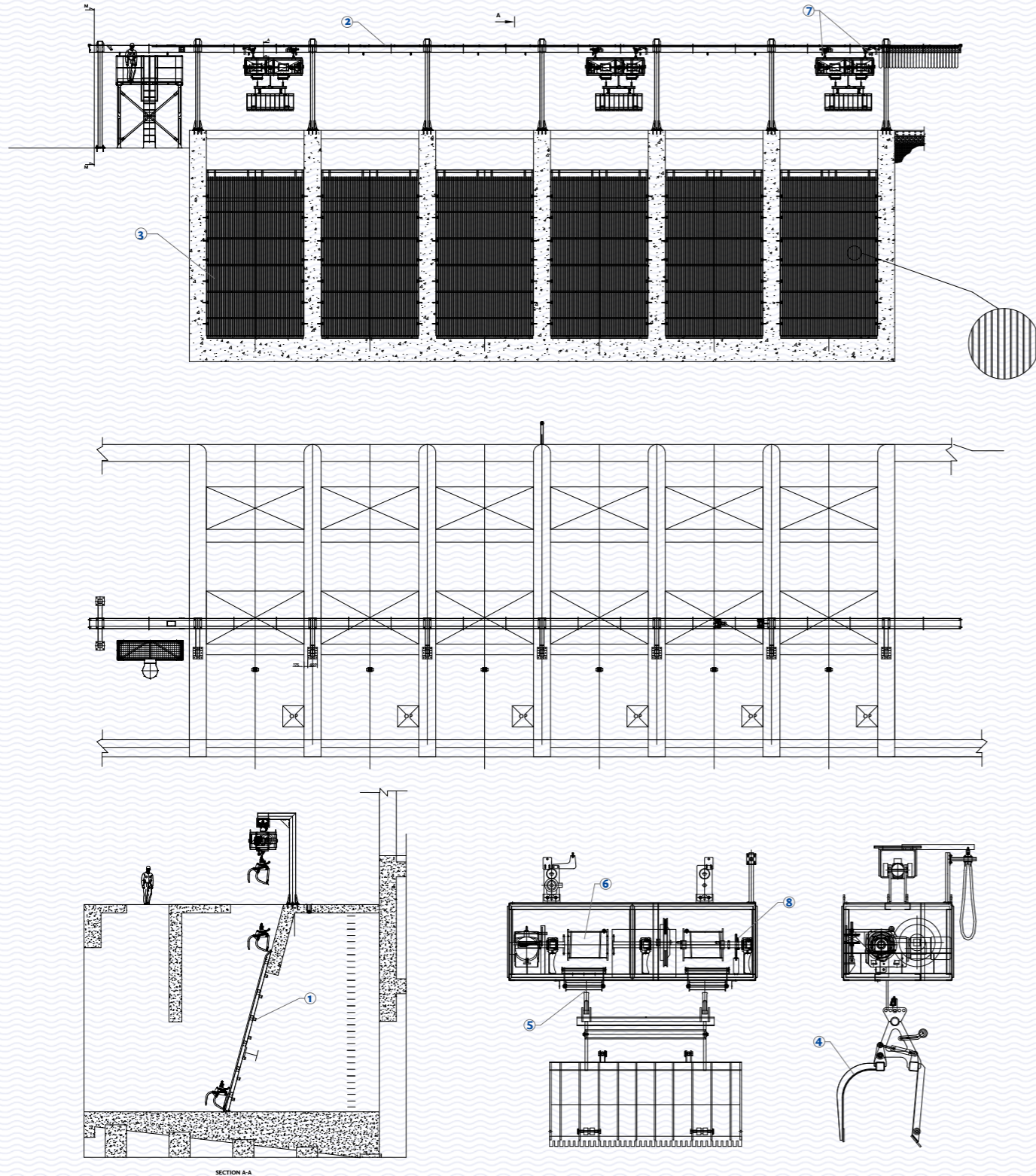
The grab collects the screenings and starts to move them up.



4

At the end, screenings are discharged into a container.

## Typical Travelling Grab Screen & Components



Typical drawings are for information only.



## OUR TRAVELLING GRAB SCREEN COMPONENTS

	Travelling Grab Screen Components	Materials Available
1	Support profiles	Carbon steel or stainless steel grade, AISI304, AISI304L, AISI316, AISI316L, AISI316Ti, DUPLEX or SUPER DUPLEX
2	Monorail	Carbon steel or stainless steel grade, AISI304, AISI304L, AISI316, AISI316L, AISI316Ti, DUPLEX or SUPER DUPLEX
3	Screen	Carbon steel or stainless steel grade, AISI304, AISI304L, AISI316, AISI316L, AISI316Ti, DUPLEX or SUPER DUPLEX
4	Grab rake	Carbon steel or stainless steel grade, AISI304, AISI304L, AISI316, AISI316L, AISI316Ti, DUPLEX or SUPER DUPLEX
5	Rope	A2, A4, DUPLEX or SUPER DUPLEX
6	Lifting group	according to norm of manufacturer
7	Positioning sensors	according to norm of manufacturer
8	Fasteners	A2, A4, DUPLEX or SUPER DUPLEX



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