

Swing cam type rear drop, front lift type automatic screen

Tres Screen

Designed to Handle Heavy Rainfall and Sudden Downpours

An auxiliary screen is installed behind the main screen, creating a structure that allows for easy reverse operation. This design helps break up sediment accumulation at the bottom of the screen, which is considered one of the causes of excessive torque. As a result, the system can withstand large amounts of sediment during heavy rainfall and continue operating smoothly.

Prevents short pass of residue

By installing a movable screen on the downstream side, we have achieved a measure to prevent the short pass of residue from the bottom of the main screen, which was previously difficult to achieve. This also allows the rake to stop at any position.

Reduces areas left unscraped

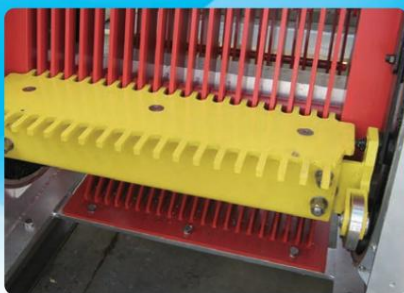
By installing an auxiliary screen behind the main screen, the amount of leftover debris after raking has been significantly reduced.

Improved maintainability

The auxiliary screen is installed behind the main screen, reducing accumulation at the bottom of the screen. This prevents a decrease in the water passing area and makes daily inspection and maintenance easier. The lower sprocket has also been eliminated, eliminating the problem of sediment getting tangled.

Anti-clogging screen (fine screen only)

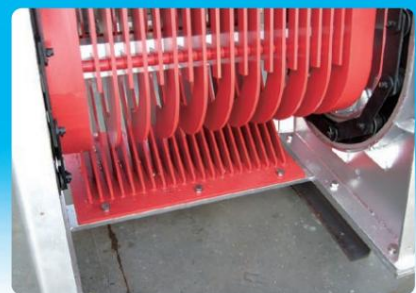
The main screen is designed to prevent clogging.



1 Rake section



2 Swing cam type movable screen / Rear screen section



3 Bottom of the screen



In recent years, there have been frequent occurrences of pinpoint heavy rainfall, known as "guerilla downpours," across the country, causing sudden fluctuations in water levels in waterways and the scattering of garbage.

Due to the downward flow, it is becoming difficult to cope with conventional front-drop, front-scooping or rear-drop, front-scooping type screen. We propose a tres screen that solves these problems.



Swing cam type movable screen

The swing cam type movable screen prevents short pass of sediment downstream.

Swing Cam Method

- A swing-cam type movable screen blocks off spaces where short passes may be made.
- When the rake passes, the roller attached to the rake cause the cams on both ends of the movable screen to swing and allow the rake to pass, so the rake can stop in any position.

Conventional method

- There is a risk of a short pass between the screen and the front screen.
- The rake must be stopped in place to prevent short passing while stopped.



Swing cam type movable screen, rear screen section

Scope

Item	Specifications:
Applies to	Storm water pump station
Channel width	1.0 to 5.0 m
Channel Depth	7m or less
Bar opening width	30 to 150 mm
Installation angle	75 degrees
Output	1.5kW, 2.2kW, 3.7kW

The above specifications are subject to change. Please contact us for any changes outside the above scope of application.

Comparison with conventional dust collectors

Item	Tres Screen	Conventional
Auxiliary Screen	Rear fixed type + rear movable type	Front fixed type
Lower sprocket	None	In principle, yes
Shortpass of residue	Reliable prevention	Concerns
Reverse operation	Continuous operation is possible	Not possible or action required
Screen	•Anti-clogging type (fine mesh only*) •Normal type	Normal type

*Compatible with bar opening widths of less than 75 mm

Anti-clogging screen (fine screen only*)

This screen is made up of alternating short flat bars and strong members, and the comb teeth penetrate the screen to prevent clogging and ensure that sediment is removed.

*Compatible with bar opening widths of less than 75 mm



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