

Jacopa STS Inclined Fine Screen



Straight Through Screen Advanced Water Screening

Key Features & Benefits:

- Patented tapered hole screen
- No hair-pinning
- Total screenings capture
- Stainless steel & Carbon steel frames
- 3, 5, 8, 10mm screening
- Modular panels

How We Create Value:

- Reduced operational and maintenance cost
- Limited downtime
- One piece delivery
- Single power supply
- 81% screen capture ratio
- Improved flow pattern
- Reduced CAPEX costs



Jacopa STS Inclined Fine Screen



STS Bandscreen

The STS Bandscreen is designed for fine screening of water and waste water at inlet to Sewage Treatment Works or similar, where a means of removing solids from the process flow is required to improve works efficiency.

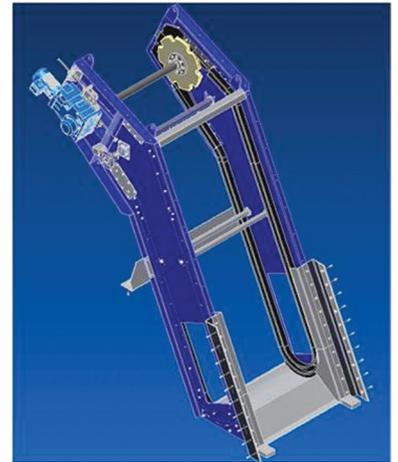
The Screen is fitted with modular panels in order to make installation, maintenance and screening more efficient. The Screens are able to filter to either 3, 5, 8 or 10mm in two directions. The modular design enables Jacopa to install and retrofit screens into both new and existing installations.

Construction

The screens are manufactured in either stainless steel (304/316) or carbon steel to ISO 9001 quality control standard.



The new modular construction of the STS screen enables Jacopa to manufacture units in 150mm increments from 450mm to 2000mm wide, thus covering a wide range of flows.



The new inclined screens can be installed in channels at either 45° or 65° to the horizontal and discharge screenings at or above coping level to suit individual applications for screening compaction.

The new STS design uses patented screen panels from the CF100 product range. These panels help prevent hair pinning and only require waste water to clean the screenings from the panels. This eliminates the requirement for a cleaning brush, therefore reducing power consumption and reduced TOTEX costs.

The robust one piece steel frame design utilises an endless band of screen panels, which are easy to maintain and replace.

Below the water line, the band is guided by its frame, thus eliminating any permanently submerged moving parts.

Features

The STS fine screens are suitable for flow rates ranging from 50 to 1000 l/sec in channels ranging from 500mm to 2000mm wide and depths from 1m to 8m.

The screen panels are plastic injection moulds and have a high density impact design. The panels remove screenings and debris by using apertures of 3mm to 10mm in 2 dimensions.

Jacopa STS Inclined Fine Screen



Other features of the new STS screens are:

- Rigid frame construction
- Enclosed head section with access panels
- Shaft mounted drive
- High density screen panels
- Anti friction bearings
- Patented panels eliminate brush gear drive assemblies
- Panels cleaned by low pressure jets
- Elevators fitted to each panel to collect rubbish
- 9mm thick panels to eliminate hairpinning
- Tapered perforated apertures on panels
- Sealing strips to eliminate screenings carry over
- High strength, long life polymer panels
- Boot plate at screen base with neoprene scraper to prevent by-pass
- No mechanical moving parts below water level
- Pivot design available



Flow pattern

The STS Fine Screen is arranged across the full channel width. Debris is retained on the upstream side of the screen band and screenings are elevated out of the flow by the moving step screen construction. At high level, the screenings are removed by a combination of gravity and a pressurised jet system incorporating a series of spray nozzles, located inside the screen head section. Screenings are then deposited into a launder or conveyor system.

After passing through the screen curtain, screened flow passes to the downstream side through vents in the screen structure to reduce headloss.

Engineering

Jacopa engineers, with the aid of advanced 3D graphic and modelling packages, design screens and their associated equipment to suit site conditions.

Advanced design and state-of-the-art manufacturing procedures are standard for Jacopa, enabling every CAD generated design to be precision engineered.

Our service engineers will install, commission and maintain all machines in accordance with site specifications.

We are able to offer long term agreements covering spares and maintenance, relieving the client of overheads and down time costs.

Computer-aided-design and engineering

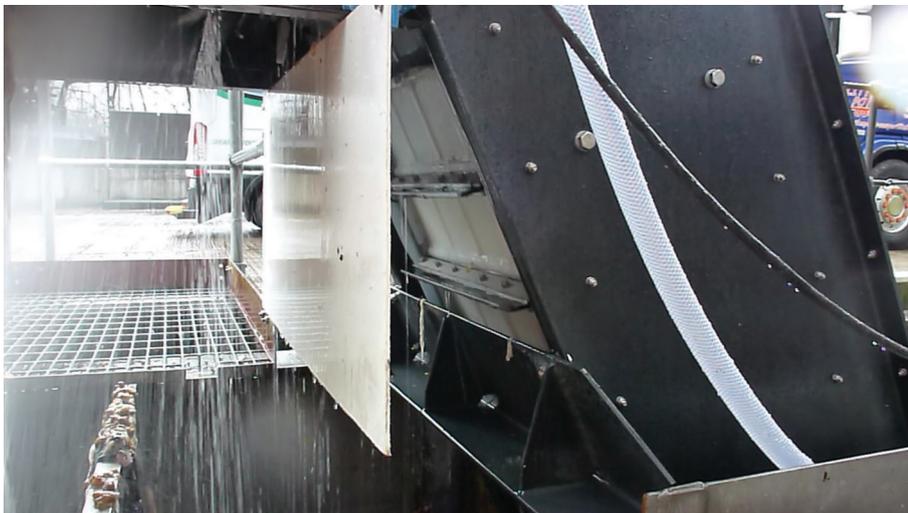
Jacopa's engineers have previous experience of computer-aided-design processes, and Jacopa continues to make extensive investment in this area. Advanced 3D graphics and modelling packages allow screens and their associated equipment to be modelled together and compared to site conditions. Advanced design and state-of-the-art manufacturing procedures are standard at Jacopa, enabling every CAD generated design to be precision engineered.

Jacopa STS Inclined Fine Screen

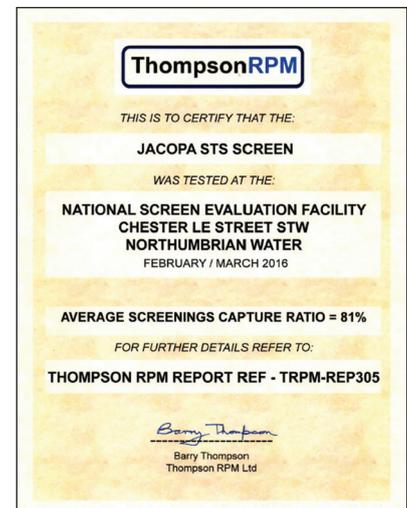


STS Bandscreens	
Model	STS 100
Channel width	500 to 2000
Flow capacity	50 to 1000 l/sec
Perforation size	3, 5, 8, 10mm
Screening discharge height	Site-specific
Channel depth	1000 to 8000mm

Notes: The head loss generated is generally between 200 and 500mm. Consult Jacopa for details.



An efficient washwater spray cleaning system means there is no cleaning brush to adjust or replace providing both energy and maintenance savings.



Our STS screens have been subjected to rigorous testing at the independent National test centre. The tests proved that the screens have a remarkable 81% capture ratio which is comparable to the very best equipment available.

Copyright © 2016 Jacopa. All rights reserved.