

Continuous Chain Raked Screen

The Three Star Continuous Chain Raked Screen is used on inlet works and storm overflows where large concentrations of debris are expected.

Replaceable bolted tine plates are fixed to the carrier beams connected to two strands of matched endless chains. The chains are equivalent to 12,000lbs or 24,000lbs dependent on duty.

Chains are driven by sprockets fixed to the substantial headshaft running in tensioned roller bearings.

Grids down to 6mm bar spacing taper or rectangular bars in carbon or stainless steel.

Grids can be extended to discharge point or more commonly finishing above water level and continuing in carbon steel painted or stainless steel debris plates.

The chains pass around a wear resistant bottom guide track which removes the necessity for sprockets and bearings in sewage flows.

Drives can be weatherproof or zoned for gas areas and are shaft mounted to give clean lines to the screen.

The debris on the rakes is removed by a pivoted wiper with wear resistant nylon blade.



The Three Star Continuous Chain Raked Screen

The Three Star Continuous Chain Raked Screen is front raked bar screen which is best suited to pumped flow systems.

Grid depths are selected to suit the water levels that the screen will see in operation. The gap between the top of the grid and discharge point is bridged by a continuous series of solid debris plates. The rakes pull trapped screenings up the bars and debris plates, to the discharge point.



Key Features

- Maximum channel width **4.0m**.
- Maximum channel depth **12.0m**.
- Front raked.
- Single full width rake head.
- Dependent on channel width and depth bar spaces down to 6mm are available.
- No washwater required.
- Multiple carrier beams give a frequent raking action which ensures high concentrations of debris are effectively removed.
- Replaceable rake heads.
- Standard screen angle 75° to horizontal.
- Debris is removed from the rakes by a pivoted wiper with replaceable UHMW PE blade, at the top of the screen.
- Standard material of construction is painted MS structure, grid and rakes, with mild steel zinc plated chains.
- Multiple rakes are fastened to two endless chains which are driven by sprockets powered by a shaft mounted gearmotor at the top of the screen.
- Chains pass round a wear resistant guide track at the bottom of the screen which removes the need for sprockets and bearing in the flow.
- Rectangular or taper section bars.
- All screens are bespoke designed for the particular application, and are suitable for installing in new channels or retrofitting in existing channels.

Options

- Control panel and field cabling.
- ATEX certified screens for use in hazardous areas.
- Single, dual or variable speed drive.
- Stainless steel 304 or 316 structure, grid, rakes and chains.

In line with Company Policy of continuous product development, we reserve the right to modify any specification, dimension or design.

Process Equipment Division

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www.ajwater.co.uk

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www.3star.co.uk

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