

# Combined Screening & Grit Removal

A combined package of screening and grit removal is a pre-requisite of wastewater treatment to make the ongoing effluent a manageable and consistent medium entering the next phase of treatment.

The system includes fabricated tanks which are modular or site specific to suit the flows and location. Depending on the flow and operating regime we can offer Travelling Fine or Band Screens.

## Travelling Fine Screens

- Unique cutaway side plate design helps reduce head loss
- Screenings Capture Ratio 79%
- Incorporates high open area screening media to improve hydraulic and capture performance
- Auto adjusting rotary brush cleaning mechanism combats hair-pinning, even when used with minimal wash water (FE)
- Washing debris plate
- Fully retractable spray bar allows speedy nozzle un-clogging.

## Band Screens

- High capacity per width ratio
- Carry over prevented
- Thick plate perforated plastic or stainless steel mesh panels
- Screening down to 3mm where required
- Heavy duty chains of proven design for low maintenance
- Highly efficient side sealing system prevents screenings transfer downstream
- Easy removable panels for ease of maintenance.

## Screenings Handling (Starwash)

- Impressive volume reduction and dryness fraction
- Pioneering cleaning techniques
- Available in various body diameters to accommodate varying throughput requirements: 150mm, 200mm and 300mm
- Stand alone, under screen or integral screen mounted
- Enhanced reliability – does not use cutter blades or macerators
- Not subject to excessive wear in gritty conditions.

## Grit Removal (Gritstar)

- Efficient removal of both faecal and vegetable matter resulting in a cleaner grit with considerably lower organic content
- Low cost and low energy use
- Compact design
- High efficiency – takes full advantage of gravitational settlement
- Simple, low rotating paddle mechanism, easy to maintain
- 95% removal of grit greater than 315 microns in size with a S.G.>2.65.



## Benefits

- 'One Stop Shop' ready to go Inlet Works
- Manufactured in our works in a controlled factory environment
- Pre-wired and pre-commissioned in our works
- Designed to provide easy maintenance and access once installed
- Single delivery and set into position
- Minimal civil works required on site
- Time on site greatly reduced
- Health & Safety risks on site are minimised
- Capacity - to suit client flow rate requirements
- Typically 50 to 700l/s



Band Screen



Travelling Fine Screen



Gritstar



Starwash

## Process Equipment Division

A & J WATER TREATMENT  
[www.ajwater.co.uk](http://www.ajwater.co.uk)

THREE STAR ENVIRONMENTAL  
[www.3star.co.uk](http://www.3star.co.uk)

ADAMS HYDRAULICS  
[www.adamshydraulics.co.uk](http://www.adamshydraulics.co.uk)

COES GRP  
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