03.2

SIEVES

FINE SCREEN

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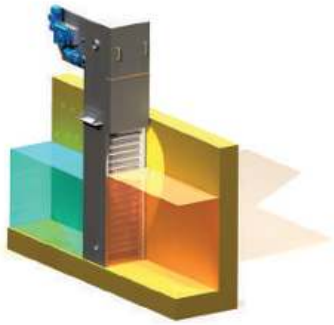
WHAT ABOUT

The DET52 fine screen is a unit that is suitable for sieving in waste water treatment processes and the recovery of solids from industrial processes; it has a self-cleaning system which uses brushes and unloads the discharge through the back.

The fine screen is intended to provide maximum performance when used intermittently, thus minimising the wear and increasing sieving efficiency through the slow fouling of the mesh which increases solid retention capacity and facilitates loosening at the discharge point.

The design of the fine screen means it is intended for a single unit machine, therefore assembly is very easy. It is made with a guaranteed long life and minimal maintenance. The mechanisms are designed to have minimal contact with the liquid to avoid breakdowns and also so they are easily accessible to perform maintenance. It only rises slightly above the top of the channel which allows for immediate access to its primary parts - the drive unit, drive tensioner and cleaning unit.

Depending on client needs, the fine screen can be designed with an adjustment to the discharge and water heights, as can the width of the channel which varies between 500 and 2000 mm. The pitch for sieving may vary between 3 and 10 mm.



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FRAME

It is a single unit made from stainless steel plate and profiles, creating a stable resistant whole which supports all the moving parts. It has height-adjustable brackets for on-site installation and a lateral water tightness system, ensured by EPDM rubber profiles which adapt to the sides of the channel.

DRIVE UNIT

Comprised of a hollow shaft geared motor mounted on a drive shaft, it works a set of sprocket wheels which interlock with the two side conveyor chains where the filtration components of the fine screen are attached.

MESH – SIEVE

Designed to prevent wear through abrasion, it consists of highly resistant filtration components – the result of being made of ABS. They comprise a continuous meshed sieve with a variable pitch which is linked to a chain worked by the drive wheels and have a tensioner system to adjust the operation of the fine screen.

CLEANING UNIT

Comprising elastic blades, it works on a drive unit which by rotating removes the waste that is still attached (stuck on the filtration components) to the fine sreen. This device is complemented by a set of sprinklers which spray pressurised water over the filtration components.

MONITORING EQUIPMENT

For automatic operations: there should be a control cabinet which, depending on need or preference, can be equipped to work on a time-delay or per pressure loss. There must also be an overload protection system (torque limiter).