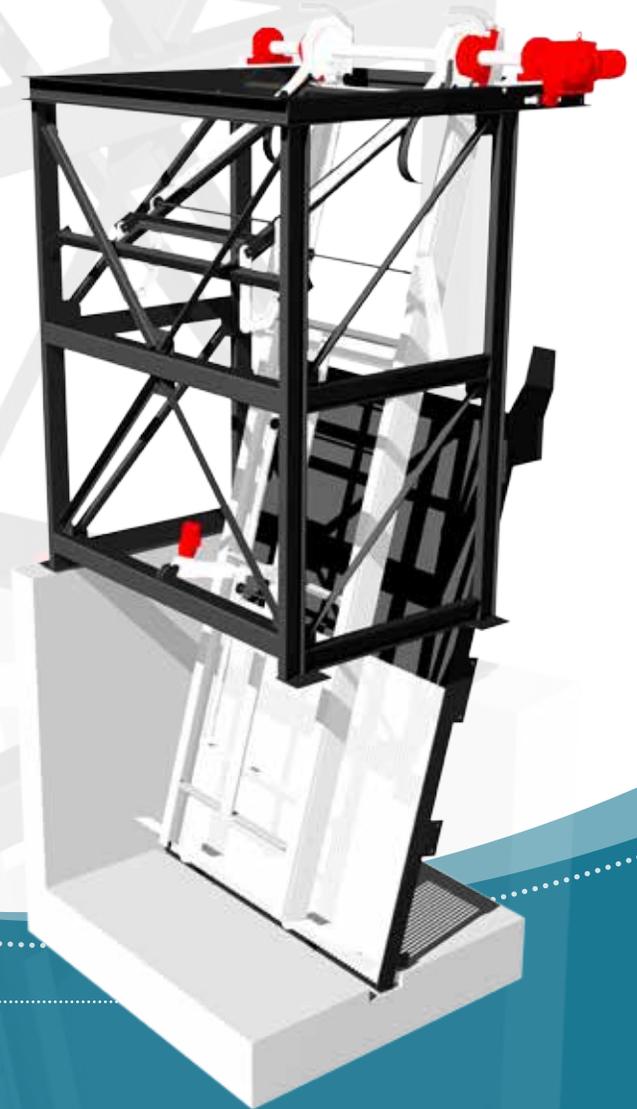




SPIRAC[®]
Solid Handling Solutions

RAKEGUARD™

RAKED COARSE SCREEN



FEATURES AND BENEFITS

- Screen can be used for channels from 3ft (1m) up to 10ft (3m) wide and up to 16ft (5m) deep.
- Smallest available bar gaps 10mm.
- Most common installation angle 75° to horizontal.
- Very high screenings discharge capacity.
- Very low headloss - high separation efficiency.
- Chains pass around a wear resistant guide track at the bottom of the screen which removes the need for sprockets and bearings in the flow.
- No wash water required.

RAKEGUARD™ is a robust front raked bar screen which is well suited to raw sewage applications. The screen can be used at municipal and industrial wastewater and process water screening where large concentrations of debris are expected.

With the RAKEGUARD™ wastewater passes through the grid and captured screenings are removed by a chain operated rake that moves up the face of the grid. The screen comes with replaceable prongs which fits into the grid. RAKEGUARD™ comes with a function that detects large objects and keeps the screen operational. The debris can be discharged into a shaftless screw conveyor system or launder trough.

Two chains move the rake up and down and an overload sensor can be used to protect the mechanism during movements of the skip. While the rake moves down, a control mechanism makes sure the guides are swung clear of any screenings. At the bottom the mechanism is operated, moving the guides back towards the screen grid, forcing the rake prongs into the spaces between the grid bars. This ensures positive engagement of the prongs with the grid.

Once the rake hits a rigid obstruction during its upward movement, the power demand will increase which sends a signal to the actuator to withdraw the prongs from the grid.

When the resistance to movement of the rake is low the rake will continue, if this occurs before the prongs have cleared the obstruction, part of the debris will be cut away by the ends of the prongs.

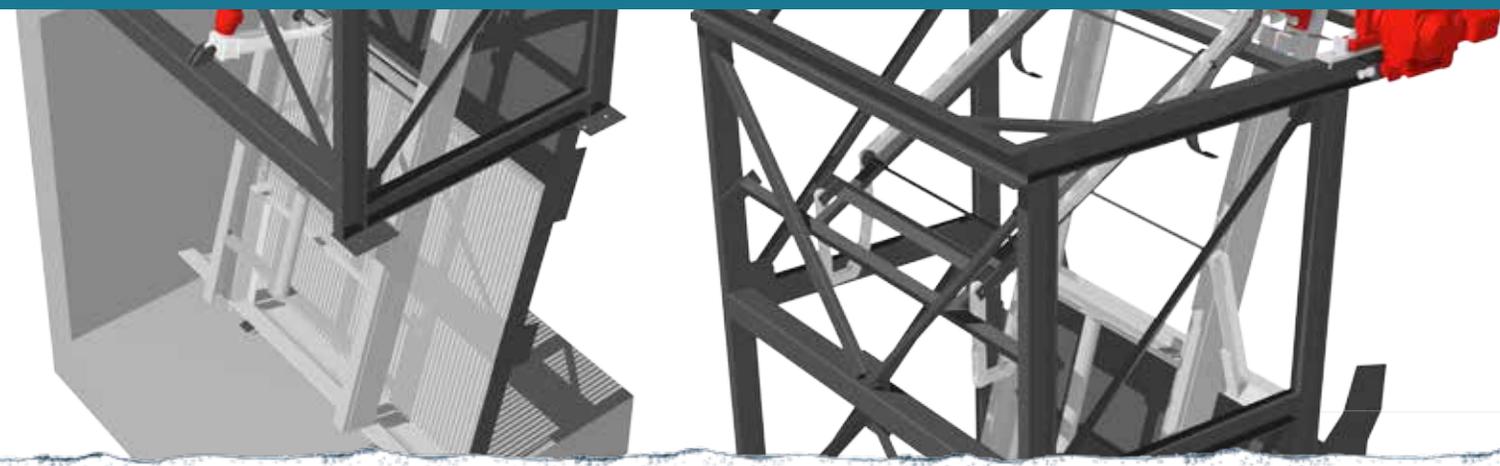
Any unusual obstruction as the prongs are pushed into the grid will signal the screen motor to lift the rake clear of the obstruction.

The provided sensors come with adjustable time delays before cutting out on overload. If the screen hasn't cleared the obstruction within the pre-set delay the screen cuts out. Once the RAKEGUARD™ screen operation is blocked, a mechanical overload protection interrupts the operation.

The RAKEGUARD™ screen mechanism is set out of the wastewater stream when it isn't operational.

All RAKEGUARD™ installations are customised to our client's needs, and can be installed in new channels or retrofitted into existing channels.

TALK TO US ABOUT YOUR SCREENING NEEDS.
Our wide range of screens guarantees we have the right solution for you.

**SPIRAC (USA) INC.**

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