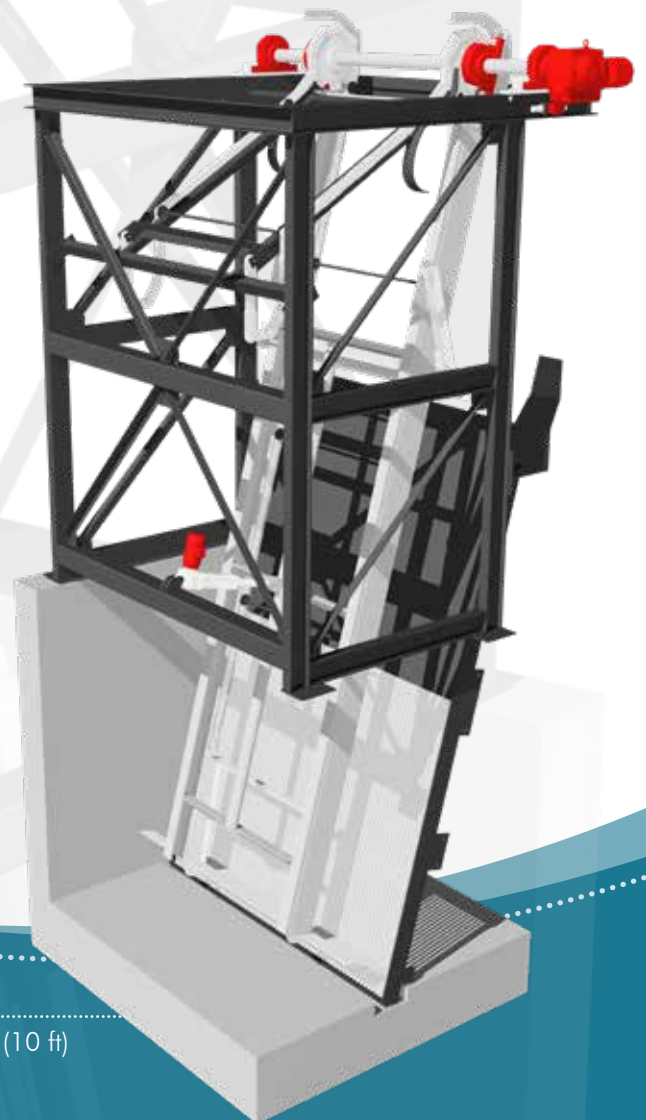




**SPIRAC**<sup>®</sup>  
Solid Handling Solutions

# RAKEGUARD™

## RAKED COARSE SCREEN



### FEATURES AND BENEFITS

- ▶ Screen can be used for channels from 1 m (3 ft) up to 3 m (10 ft) wide and up to 5 m (16 ft) deep
- ▶ Smallest available bar gaps 10 mm
- ▶ 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
- ▶ Flow range up to 2500 l/sec. (3170 gpm)
- ▶ No wash water required.

RAKEGUARD™ is a robust front raked bar screen that is well suited to raw sewage applications. The screen can be used for municipal and industrial wastewater as well as 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 debris can be discharged into a shaftless screw conveyor system or launder trough.

The screen comes with replaceable prongs that fit into the grid. 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 a mechanism moves the guides back towards the screening grid, forcing the rake prongs into the spaces between the grid bars. This ensures positive engagement of the prongs with the grid.

RAKEGUARD™ comes with a function that detects large objects and keeps the screen operational. 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.

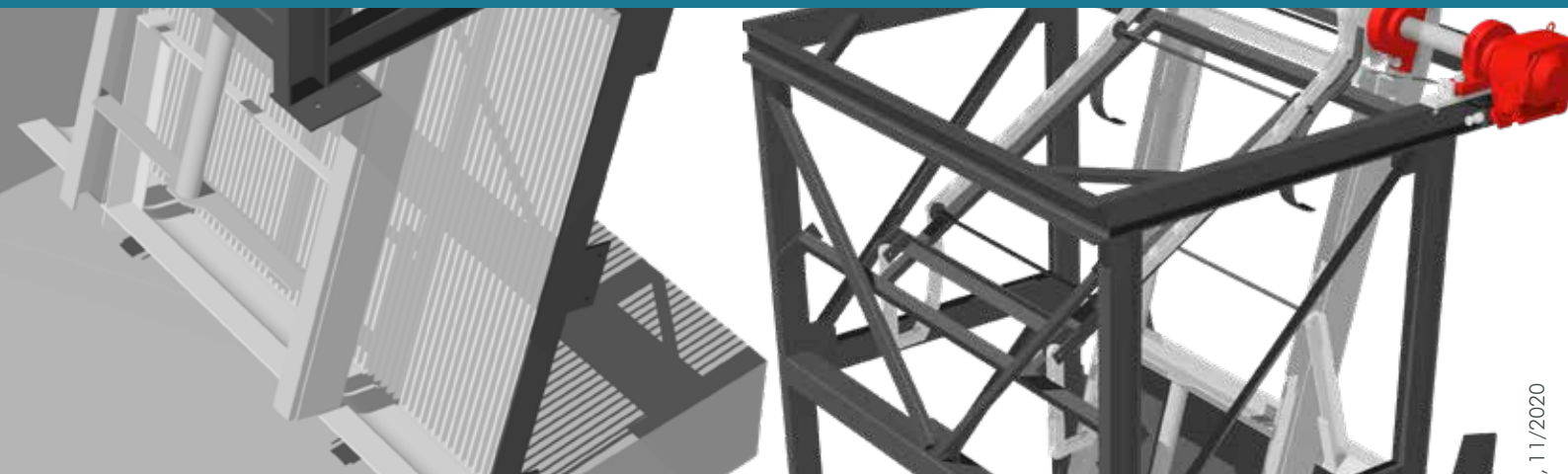
Any unusual obstruction as the prongs are pushed into the grid will signal the screen motor to lift the rake clear of the obstruction.

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.

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.



AUSTRALIA  
SPIRAC Pty Ltd

Western Australia (Perth)  
+61 8 9434 0777

info@spirac.com.au

NETHERLANDS  
SPIRAC BV

Maarheeze  
+31 495 430 203

info@spirac.nl

SWEDEN  
SPIRAC AB

Limhamn  
+46 40 36 22 00

info@spirac.se

UNITED KINGDOM  
SPIRAC Limited

Banbury  
+44 1 295 270 335

info@spirac.co.uk

[WWW.SPIRAC.COM](http://WWW.SPIRAC.COM)

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