

Jacopa® Rotating Bar Interceptor (RBI)



A robust coarse bar screening system for protection against heavy objects

Key Features & Benefits:

- Simple construction
- Suitable for both deep and shallow channel systems
- Coated carbon steel and stainless steel fabrications
- Independent hydraulic drive system
- Ideal for hazardous area locations

How We Create Value:

- Low maintenance cost thanks to standardized components
- Simple, low cost operation
- Easy installation/retrofit
- Reduced maintenance regimes.
- Reduces impact on fine screens
- 75mm to 200mm bar spacing



GENERAL DESCRIPTION:

Jacopa's RBI screen provides effective protection for pumps, mechanical screens and sewers by providing a barrier against which large, abnormal debris collects.

The RBI screen does not collect and remove normal screenings: these are handled in the normal way by standard screening equipment. Waste water flows are maintained throughout the coarse screening process. Plug flows are eliminated and the system will not be overloaded by bulk solids. Free passage of normal solids prevents unnecessary double-handling at the head works or pumping station area. It is not necessary to handle debris, except for the occasional clearance of large objects at the Interceptor.

Jacopa RBI applications are numerous. Its special design allows it to operate even at low flow levels where flooding is a possibility. The simple frame design allows the screen unit to be lowered into position using guides, making removal for inspection extremely simple.

The RBI screens are designed to meet individual requirements, flow characteristics, water depth and channel height for specific applications.

How it Works

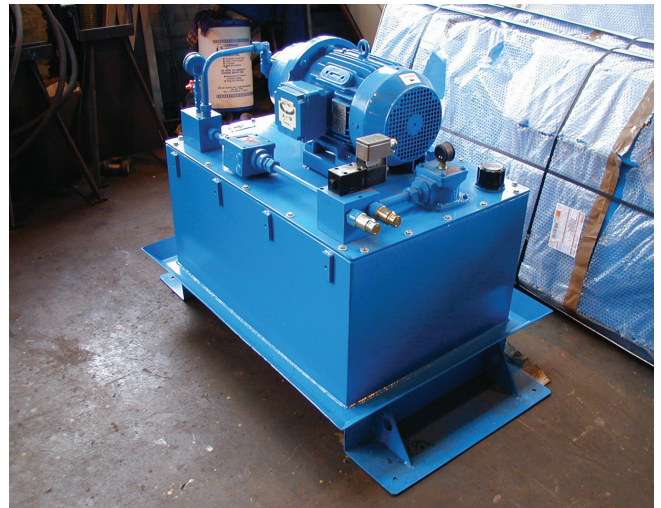
The Jacopa RBI screening grid comprises a number of large diameter rotating tubes, typically arranged with clear spaces from 75mm up to 200mm. The tubes are supported within a steel frame, each with end bearings and a drive shaft.

Each tube is connected to a hydraulic motor; motors are fixed to the top cross member of the frame. Hydraulic piping for flow and return is housed within the frame and each motor is provided with a flow control valve. The individual motor drive arrangement ensures that if one tube is fouled and inoperable, the others will continue to operate independently.

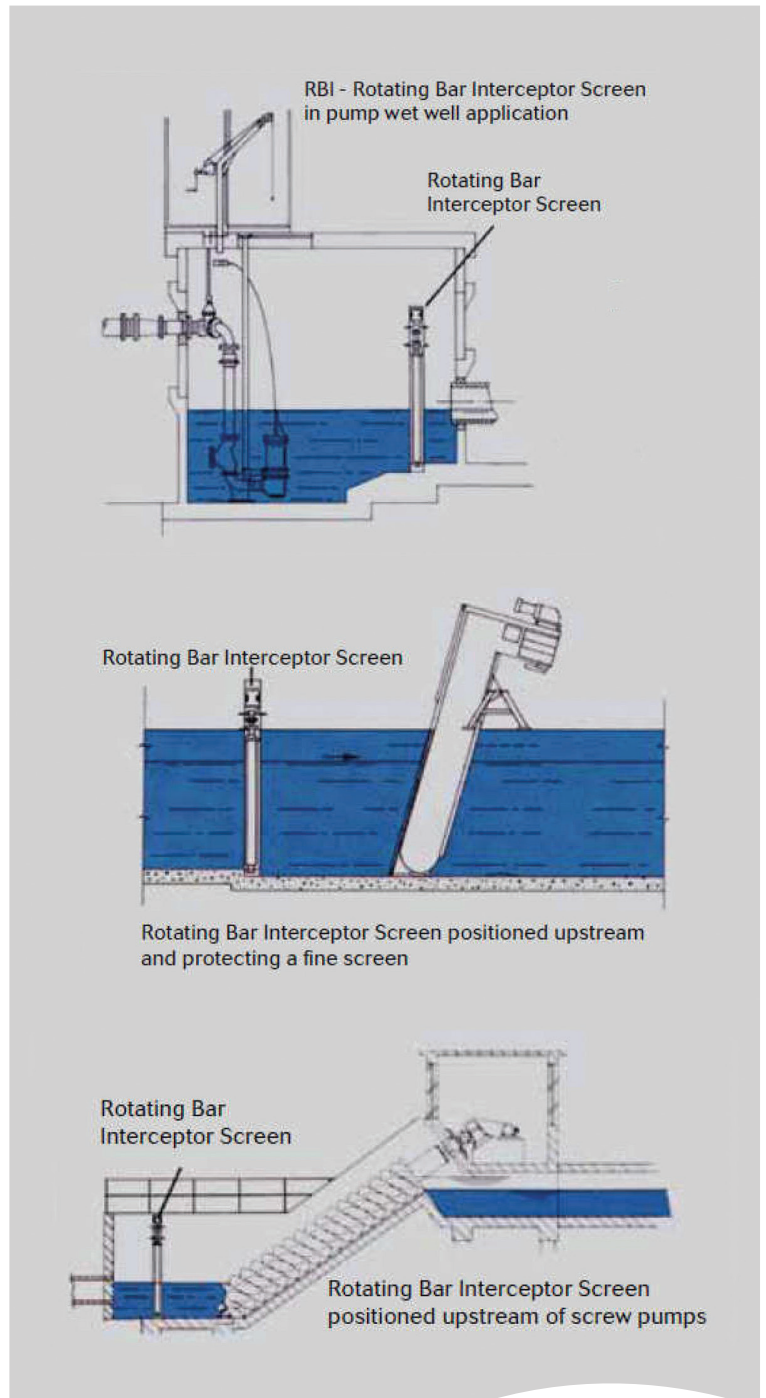
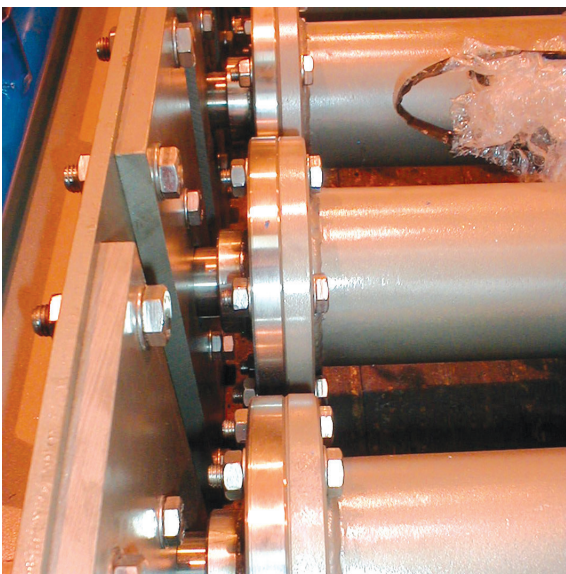
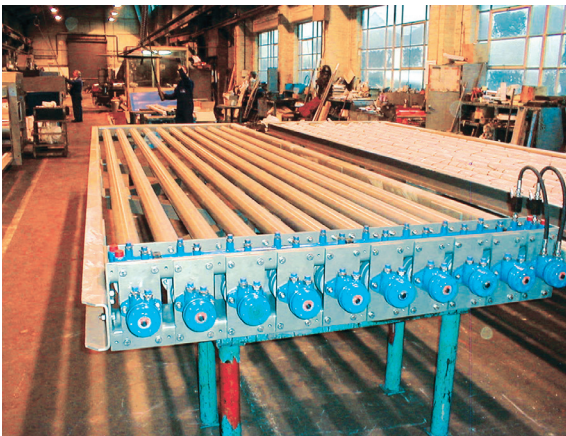
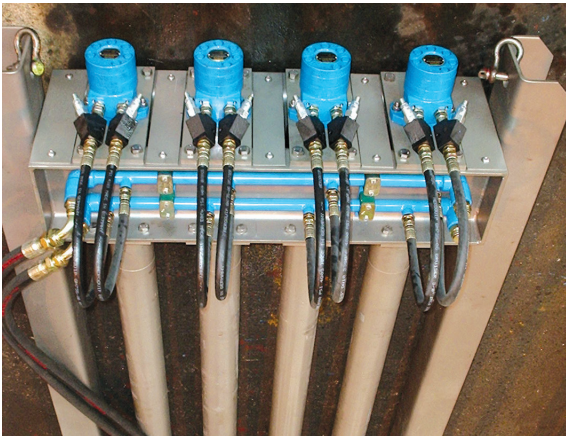
Tube rotations (whether continuous or intermittent) ensures that normal solids do not remain at the RBI unit. Rotating with the flow encourages the passage of normal solids. Automatic reversing aids screen clearance.

Arduous Duty Models

The Jacopa RBI system can also be supplied for situations where grit and debris can accumulate around the tubes' bottom bearings. Arduous duty models feature specially designed internal bearings and grease lubrication.



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