

# Raptor® Multi-Rake Bar Screen

Removes Captured Solids Rapidly and Efficiently



**Raptor® Multi-Rake Bar Screen** is made in the USA to our quality standards for performance you can trust.

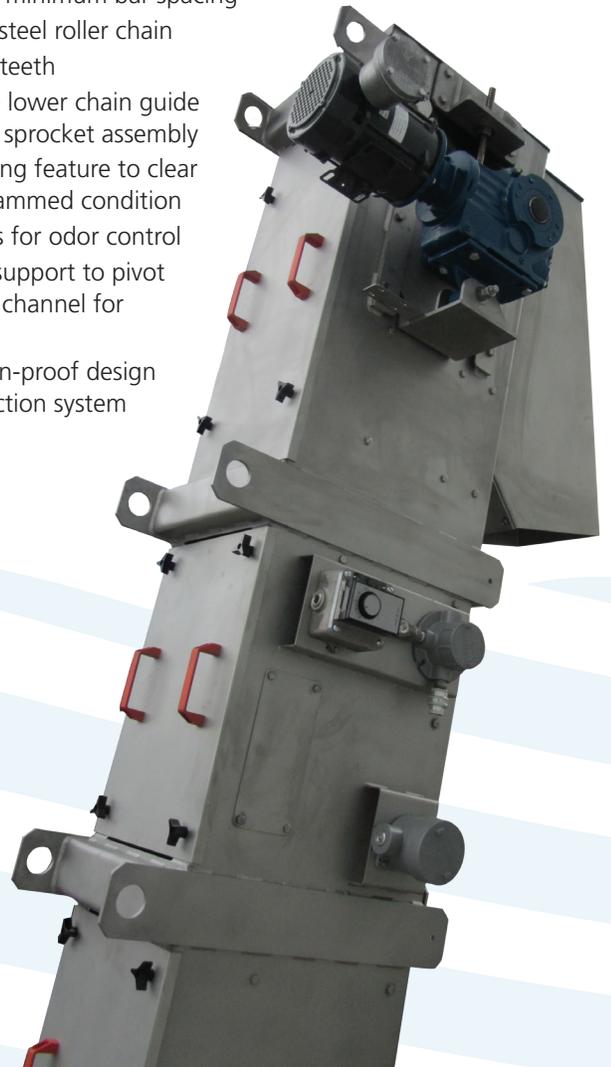
Speak to one of our experts at **630.837.5640** or email us at **[sales@lakeside-equipment.com](mailto:sales@lakeside-equipment.com)** or visit **[www.lakeside-equipment.com](http://www.lakeside-equipment.com)** for more product information.

## HIGH HYDRAULIC CAPACITY, LOW HEADLOSS

The Lakeside *Raptor*® Multi-Rake Bar Screen is an efficient, proven screen technology, for removal of inorganic solids that can be harmful to downstream equipment in municipal and industrial applications. The heavy duty design provides durability and long life in the most severe conditions. High removal efficiency and low headloss is achieved with multiple rakes cleaning the screen and rake teeth penetrating the bar openings to positively remove captured material. The benefit of continuous cleaning with multiple rakes is rapid debris removal for applications with high screenings loads at treatment plant headworks, pump stations, or combined sewer systems.

## Superior design and construction

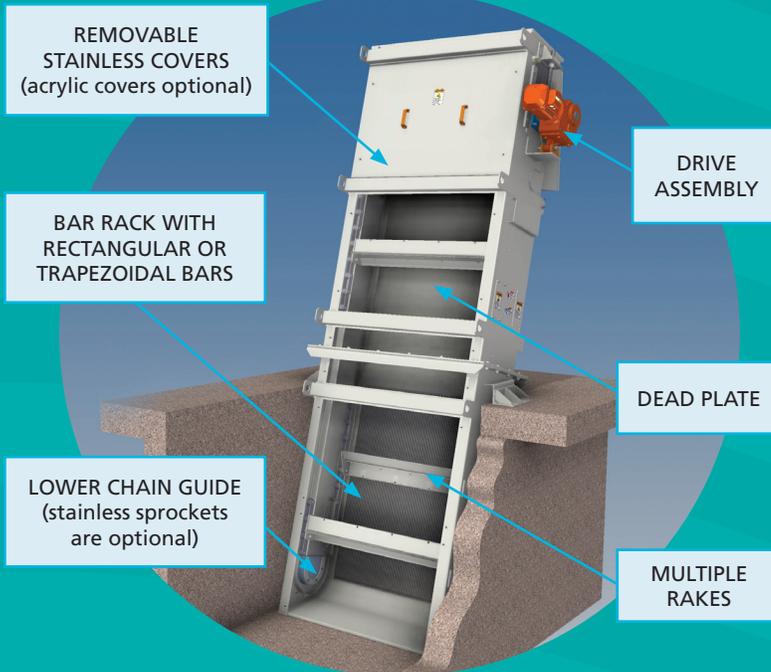
- All stainless steel construction to resist corrosion
- Minimal headroom required above operating floor
- Rectangular or trapezoidal screen bars, 3/16-inch (4 mm) minimum bar spacing
- Durable stainless steel roller chain
- Replaceable rake teeth
- Maintenance free lower chain guide or optional lower sprocket assembly
- Automatic reversing feature to clear obstruction in a jammed condition
- Removable covers for odor control
- Optional hinged support to pivot screen out of the channel for maintenance
- Optional explosion-proof design or weather protection system



Cleaner Water for a Brighter Future®

# Raptor® Multi-Rake Bar Screen

Durable Design, Low Maintenance, High Performance



## SCREEN OPERATION

When wastewater flows through the screen, solids are captured on the face of the screen bars. As debris collects and blinding occurs, the upstream water level rises to a high level set point, which then activates the drive mechanism to start a cleaning cycle. Multiple rakes, which are attached to dual stainless steel roller chains, provide rapid debris removal from the bar screen. Drainage occurs while material is transported up the screen and dead plate. Located near the top of the machine, a scraper assembly wipes the debris from the rake head and into a discharge chute. Material falls from the chute into a conveyor, washer compactor, or dumpster for disposal.

## APPLICATIONS

### Multi-rake performance you can rely on for

- Municipal and industrial wastewater treatment plants
- Pump stations
- Surface water intake structures
- Combined sewer overflows



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