

Screen and Trash Rakes



MUHR Hydraulic and Cable
Operated Raking Mechanisms



Cleaner Water for a Brighter Future®



Cable Operated Raking Systems

Catronic Series Trash Rakes

The Catronic Series Trash Rake provides a reliable and efficient method for cleaning trash racks up to 200 feet. With a maximum lifting capacity of 20 tons, the rake is lowered to the bottom of the basin by a cable winch while a separate cable positions the rake for cleaning.

Monorail Series Trash Rakes

The Monorail Series Trash Rake is designed specifically for water intake structures, stormwater facilities and wastewater treatment plants. It combines screening and transporting into one unit with an overhead monorail, traversing trolley with grab rake, and a control system.



Stationary Catronic S

Catronic SV with Hydraulic Grab Crane



Catronic SV Trash Rakes with Jib Crane



Catronic SH Monorail Trash Rake



Hydraulically Operated Raking Systems

From leaf to log, MUHR Hydronic and Catronic screen and trash rakes assure reliable removal. The hydraulically and cable operated rakes provide versatile and economical operation with minimal rack wear and are easily accessible above the water surface for maintenance. For new installations or retrofitting of existing structures, MUHR offers multiple design alternatives to suit your specific needs.

Hydronic Series Trash Rakes

Hydraulically operated, the Hydronic T Series Rake's telescoping boom and rake mechanism cleans coarse and fine bar screens, trash racks and intake screens. Telescoping designs with single and multiple sections are available to fit the application. Since the rake mechanism is independent from the screen, the Hydronic T Trash Rake does not require guides, sprockets or chains and

has the ability to clean at inclinations up to 90 degrees. All moving parts can be accessed from above the channel for ease of operation and maintenance.

The Hydronic K Series Trash Rake is hydraulically operated and capable of cleaning trash racks up to a depth of 100 feet. The articulating design gives the rake arm a long reach suitable for manual surface skimming and removing large objects, such as trees, barrels and rootstocks.

These raking systems can be used in the following applications:

- Hydro power plants
- Wastewater treatment plants
- Potable water treatment plants
- Pumping stations
- Industrial and power plant water intakes

Hydronic T Screens with Conveyor



Hydronic K Trash Rake with Conveyor



Hydronic T Screen with Wash Press



A Rake for Every Purpose



Hydronic M Trash Rake with Large Debris



Orange Peel Grapple



Triple Jaw Grab Rake

Hydronic Multifunctional Series Trash Rakes

The Hydronic Multifunctional (M) Series Trash Rake is a traversing raking mechanism with either an articulating arm or a combination articulating arm with a telescoping rake. The M Series trash rake can operate in manual, semi-automatic or fully automatic modes. Using the climate controlled cab, the operator can manually remove floating debris, skim the water surface, lift gates and stop logs.

Multiple rake head designs are available for the Hydronic M Series such as the single gripper, triple jaw gripper for optimal removal efficiency, or orange peel grapple to remove debris from the surface or at the bottom of the trash rack.

Hydraulically Operated Raking Systems

Hydronic H Series Trash Rakes

Hydronic H Series Trash Rakes are used to clean racks with horizontal bars. The hydraulically operated rake pushes debris downstream for rack cleaning or the debris can be collected using a grab rake.

CO-TEC Screens

CO-TEC Screens utilize the reverse current principle to clean coarse and fine bar screens. Rake teeth extend through the bar screen from the downstream side, then moves upward to remove captured debris. The CO-TEC Screen does not require guides, sprockets or chains, with access to all moving parts above the channel for ease of operation and maintenance.

HY-TEC Screens

HY-TEC Screens are ideal for combined sewer overflow, storm sewer overflow and wastewater bypass applications. Mounted on a hydraulically driven frame, the rake combs clean the bar rack and directs the solids into the main flow stream for further treatment.

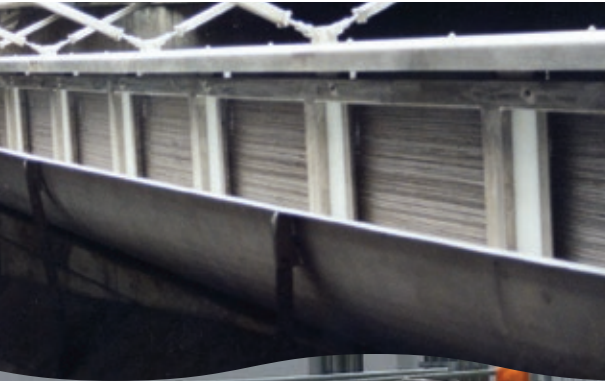
RO-TEC Drum Screens

RO-TEC Drum Screens are self-cleaning screens making them ideal for river water intake applications. The rotation of the drum screens moves debris in tandem with the river's current, and is fish friendly. The drum screens, which do not require much power to operate, only have the drive mechanism above the water level making these screening devices inconspicuous in comparison to conventional screening systems.

CO-TEC Screen



HY-TEC Screen



RO-TEC Drum Screen



Hydronic H Trash Rake



Treatment equipment and process solutions from Lakeside Equipment Corporation

Lakeside offers a wide range of equipment and systems for virtually all stages of wastewater treatment from influent through final discharge. Each process and equipment item that we supply is manufactured with one goal: to reliably improve the quality of our water resources in the most cost-effective way. We have been doing just that since 1928.

Screw Pumps

- Open Screw Pumps
- Enclosed Screw Pumps

Raptor® Screening

- Fine Screen
- Micro Strainer
- Rotating Drum Screen
- Septage Acceptance Plant
- Septage Complete Plant
- Complete Plant
- Multi-Rake Bar Screen
- Wash Press

Screen and Trash Rakes

- Hydronic T Series
- Hydronic K Series
- Hydronic Multifunctional Series
- Hydronic H Series
- Catronic Series
- Monorail Series
- HY-TEC Screen
- CO-TEC Screen
- RO-TEC Screen

Grit Collection

- SpiraGrit
- Aeroductor
- In-Line Grit Collector
- Raptor® Grit Washer
- Grit Classifier
- H-PAC®

Clarification and Filtration

- Spiraflo Clarifier
- Spiravac Clarifier
- Full Surface Skimming
- MicroStar® Filter

Biological Treatment

- CLR Process
- Magna Rotor Aerators & Accessories
- Sequencing Batch Reactors
- Package Treatment Plants
- Submersible Mixers & Recirculation Pumps

Hauled Waste Receiving Systems

- Raptor® Septage Acceptance Plant
- Raptor® Septage Complete Plant

Package Headworks Systems

- Raptor® Complete Plant
- H-PAC®

Biological Treatment Systems

- CLR Process
- Package Treatment Plants
- Sequencing Batch Reactors



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