Aqualitec
Wastewater Treatment Equipment

RAKETEC
INCLINED MULTIPLE RAKE SCREEN

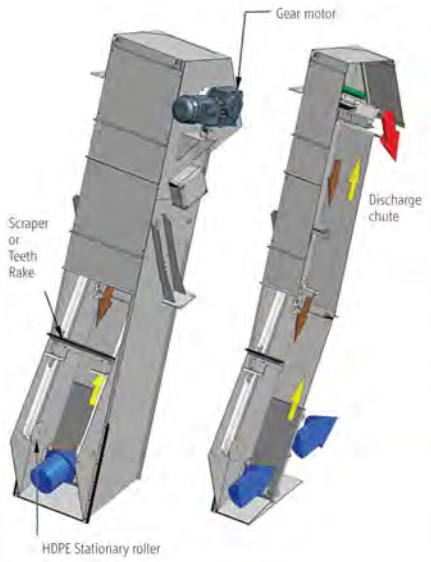
RAKETEC: Multi-Rake Bar Screen

By Aqualitec.

- Ideal Fine Screening solution for Headworks.
- Revolutionary design to avoid jamming situations.

OPERATING MODE:

Two heavy-duty chains, driven by a powerful drive shaft, carry a system of rakes placed three feet apart.
Each rake contains multiple teeth and/or brushes, and the stainless steel drive chains are connected with links bearings free to minimize maintenance. The chain rollers are made of stainless steel and the chain guides are made of high-density polyethylene (HDPE), with no metallic lower bearings and no lower sprockets. A scraper, placed at the point of discharge, cleans the screened material from the rakes and ejects the debris. Raketec's rakes are designed to mesh perfectly with the bar screen system. The rakes clean debris from the bar screen, and convey waste material up to grade level.
Raketec can be set to run continuously, on a timer program (cycle on/off), or with a water level sensor.



Aqualitec Corp. - 3415 S, Sepulveda Blvd, Suite 1100, Los Angeles, CA 90034

Tel, 1-855-650-2214
info@aqualitec.com

www.aqualitec.com

Aqualitec
Wastewater Treatment Equipment

RAKETEC
INCLINED MULTIPLE RAKE SCREEN

FEATURES & BENEFITS

1. Straight forward design

The gear motor, mounted at the top of the frame, rotates the drive shaft. The links of the chain fit into two cogwheels, located on each extremity of the drive shaft.

Driven by the rotation of the shaft, the links of the two stainless steel chains slide into the HDPE track. With the HDPE track system, there is no friction between the chain and the frame of the bar screen. There is no requirement to grease the chain.

2. Free Sprocket, no lower maintenance

At the lower part of the bar screen, the chains slide over two HDPE stationary rollers. With no moving parts at the bottom of the machine, no maintenance or underwater operation is necessary.

3. Jam Less Design

The curved screen allows the rakes to collect debris efficiently by scooping solids from underneath. This design helps prevent physical constraints or blockage with debris, ensuring the equipment does not jam. Additionally, the stainless steel rake teeth are strategically mounted every three feet, further enhancing the cleaning efficiency.

Aqualitec
Wastewater Treatment Equipment

RAKETEC
INCLINED MULTIPLE RAKE SCREEN

FEATURES & BENEFITS

4. High Capture Rate

As the rake operates in a scooping motion to collect debris, it effectively captures a substantial load of solids with each pass. The debris are then smoothly lifted, streamlining the debris removal process to ensure efficient and effective cleaning of the screen.

5. Minimal & Easy Maintenance

With no moving parts at the bottom of the bar screen, no maintenance is required. The weekly maintenance consists only of a visual check of the chains and the discharge chute. The back of the bar screen has an easy and safe access hood. If needed, tooth rake can be individually replaced quickly and easily.

6. Odor Control

The frame of the bar screen is completely enclosed, keeping odor contained. Adding a washer/compactor with a bagger system, such as Compactec, maintains total odor control.

Aqualitec
Wastewater Treatment Equipment

RAKETEC
INCLINED MULTIPLE RAKE SCREEN

PERFORMANCES

Applications: Municipal & Industrial

Design flow: Up to 60mgd

DESIGN GUIDELINES

Raketec is customized based on specifications and/or structural constraints. Below are some guidelines of the design requirements.

MATERIALS

304 or 316 stainless steel

Bar spacing from 1/4"

SPACE REQUIREMENTS - FOOTPRINT

Depth: up to 65'

Channel Width: 16'"to 6'

Installation angle: 75°

MOTOR CHARACTERISTICS

Absorbed power:3/4hp (0.56 KW)

Voltage: Custom to site - 3phases

Frequency: 60 Hz

Connellsville Municipal Authority, Pennsylvania

Aqualitec Corp. - 3415 S, Sepulveda Blvd, Suite 1100, Los Angeles, CA 90034

Tel, 1-855-650-2214
info@aqualitec.com

www.aqualitec.com