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FAIRFIELD SERVICE COMPANY

Providing excellence in Service, Product, and Value in our efforts to support the Water, Wastewater, and Material Conveyance industries since 1978.

THE CLAW

CLIMBER BAR SCREEN



- ▶ Ultrasonic differential device
- ▶ Reverse permissive limit switch
- ▶ Down rigger and up rigger follower shaft
- ▶ Mechanical torque overload protection
- ▶ Segmental teeth

Water & Wastewater Treatment Equipment



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The "CLAW" bar screen is a rack and pinion bar screen previously which is known as the "RPFF". From over last many years The "CLAW" which is heavy duty, front clean, front return type traveling rake mechanism transported on climbing carriage, is the standard for the industry with proven quality and reliability.

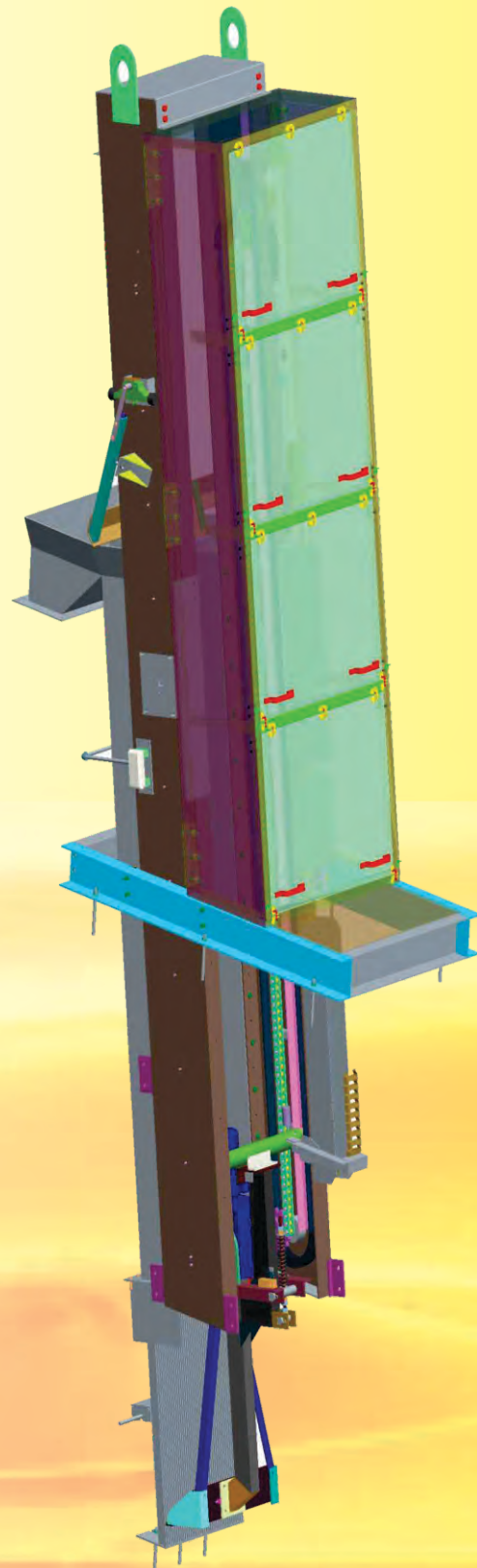
The "CLAW" shall be design to operate in a damp, wet, corrosive atmosphere. The material of construction is depending upon customer requirements and environment operating condition. All parts of the equipment furnished herein shall be amply proportional for continuous operation. Adequate lubrication shall be provided for bearings, and lubrication points shall be readily accessible.

The "CLAW" shall consist of :

- ▶ Vertical Main Frame,
- ▶ Bar Rack,
- ▶ Dead Plate,
- ▶ Pin Racks,
- ▶ Rake Wiper,
- ▶ Discharge Apron,
- ▶ Local Control Panel,
- ▶ A Traveling Rake Carriage Assembly.

The rake arm carriage assembly shall be activated either by differential level control or by time clock actuation, to remove the screening deposited on the bar rack. Discharge of the screening from the rake shall be accomplished by a hinge scraper assembly that swings in an arc, pushing the screening from the rake after the rake arm has been kicked forward at the point where the scraper assembly first makes contact with the rake. This feature ensures spillage of screening at the point of removal from the rake.

Rake provided by Fairfield for The "CLAW" has reversible movement. A spring loaded switch shall be provided to allow reverse movement of the rake assembly. If the load on the motor increases beyond a predetermine value, the motor shall rotate causing a limit switch to stop the drive. When the overload condition has been corrected, the drive shall again be operated by manual pushbutton activation.



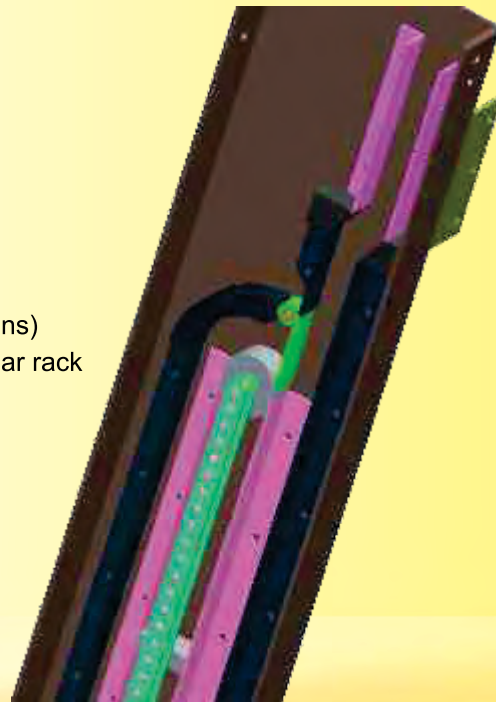


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The main eye catching feature of The "CLAW" is the mechanism, which shall be so designed that the rake can climb over and be free of an object encountered that cannot be removed. After the object has been by passed, the rake shall again mesh and continue to clean the bar rack.

► Benefits

- Sturdy stainless steel design
- High flow rates
- Low head loss
- Reliable operation with low maintenance
- Easy to retrofit
- Segmental teeth
- Drive and all bearings above water
- Cog wheels and pin racks (no sprockets and chains) for exact rake guidance and exact meshing into bar rack



Side Frame



Rake Arm

► Applications

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

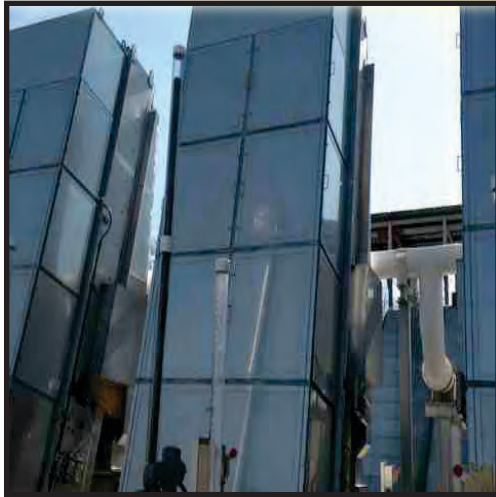
► Technical Data

- Standard channel width from 2' to 12'
- Longest Rake Arm 21'
- Longest Travel 44'
- Standard rake width from 2' to 12'
- Rake Speed up to 40 ft/ min



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► A few examples from
our installations



The CLAW at Waulnet Creek WWTP,
Raleigh, NC



The CLAW for
Hyaniss Water pollution control, MA



The CLAW at
Mexia WWTP, TX

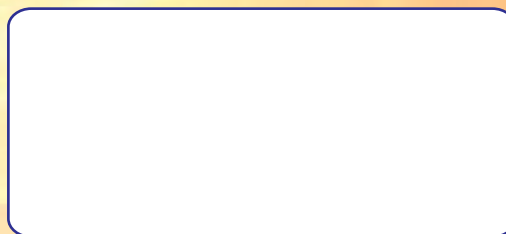


Testing Facility

FAIRFIELD SERVICE COMPANY IS MBE CERTIFIED.

Plant

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