



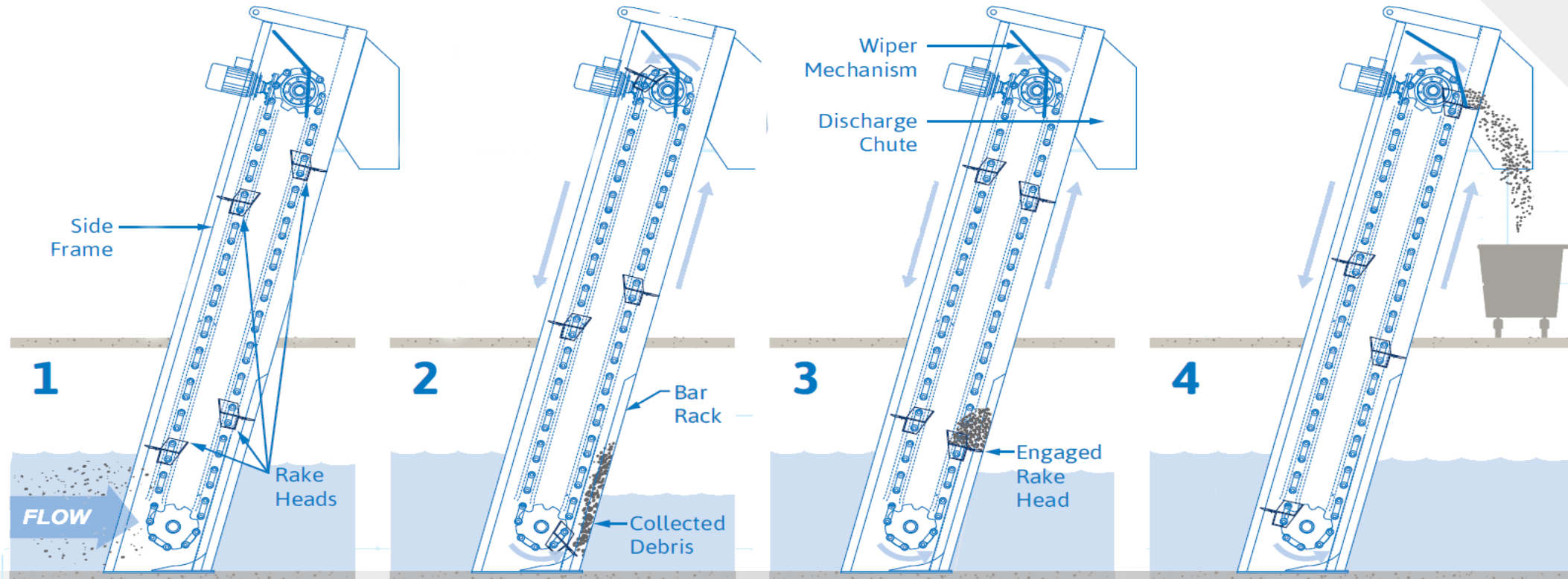
Multi Rake Bar Screen

Envifab Multi-Rake Bar Screen combines fine or coarse screening with high solids capture rates, robust construction, long life, and low O&M costs all in one screen. This combination ensures operation when you need it most.

Multi Rake Bar Screen

Principal of Operation:

Wastewater flows through the stainless steel bars while the non-biological solids, such as paper and plastics, are trapped on the screen face. The screenings are removed from the bars by rakes fixed between two heavy duty roller chains. These rakes utilize laser cut teeth that precisely engage and clean the bars. In the event an object becomes lodged in the bars, the overload feature enables the rakes to reverse and remove the obstruction then continue cleaning the bar rack. The screenings are conveyed from the bars over a dead plate, where they have sufficient time to drain, and are discharged at the top of the screen into a dumpster, conveyor or compactor. The Multi-Rake Bar Screen is designed to tightly seal to the walls of the channel to prevent any bypass from occurring and, due to the design of the lower frame, a recess in the floor of the channel is not required.



Multi Rake Bar Screen

Design Data:

Screen Channel Width	:	500 – 3500 mm
Screen Channel Depth		up to 10000 mm
Discharge Height		800 mm - 2800 mm
Bar extension		200 mm
Screen opening		5 – 50 mm
Installation angle		70 – 80 Degree
Rake travel speed		4 – 8 m/Min

Accessories:

- Torque switch
- Ultrasonic differential level measurement
- Local control panel
- Cover

Features & Benefits

- ✓ Low maintenance, low wear and tear due to:
 - Individually replaceable sprocket teeth on the drive unit
 - Maintenance-free stainless steel roller chain
 - No bearings below the waterline
- ✓ Blockade monitoring and reverse operation to remove obstacles in the bar rack.
- ✓ Short cleaning cycle time due to multiple revolving cleaning elements.





Application

- Municipal and industrial wastewater treatment plants
- Pump stations
- Surface water intake structures
- Combined sewer overflows
- cooling and waste water screening (river intake etc.)
- sea water screening
- Textile and textile finishing industry – preliminary clarification of total waste water
- Meat, fish and poultry processing / slaughter-houses – preliminary clarification of total waste water
- sugar industry - preliminary clarification of total waste water
- composting installations, waste product and disposal engineering, seepage water treatment
- fruit and vegetable processing – preliminary clarification of total waste water
- breweries – preliminary clarification of total waste water
- animal meal production– preliminary clarification of total waste water
- removal of algae
- wash water, debarking installations in paper Industries.
- coarse matter runoff, channel water installations in paper Industries.

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