

PRO-GUARD

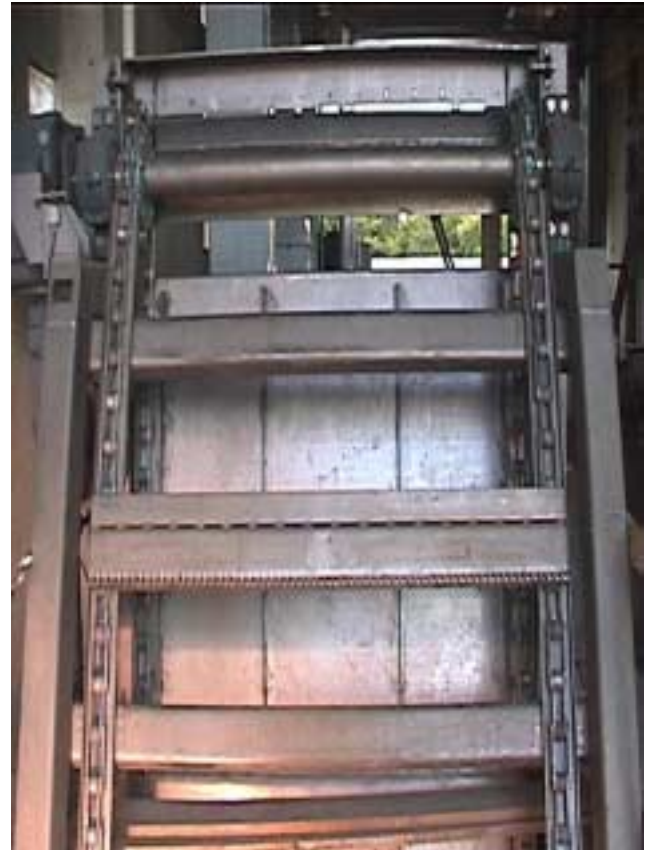
CATENARY CHAIN RAKE BAR SCREEN

The PEI catenary screen embodies all of structural and performance features of standard Chain Rake screens, but without the maintenance headaches of submerged shaft, bearings and sprockets.

Catenary screens allow the returning chain, with rakes, to hang free and re-engage the bottom of the bar rake using its own weight. The “jam-proof” catenary design works well in applications where instant operation is required after months of sitting idle. This is especially critical for cities in which storm sewers are below river crest level and pumping stations are the key means of protecting the community during wet weather.

Further improvements have expanded its application to municipal WWTPs and industries such as pulp and paper, power plants, textile mills, steel mills, refineries, etc. All of these applications share the common high flow with varied debris removal demands.

Major components of a catenary bar screen include bar rack, beaching plate, multiple rakes, rake wiper, drive chain, upper sprockets, chain return guide rail, shafting, bearings, drive unit and simple control panel. Special and optional features include 304(L)/316 (L) construction, trapezoidal bars, and various bar space openings.



- *SIMPLE**
- *RUGGED**
- *LOW COST**
- *RELIABLE**
- *CUSTOM SIZES**



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PRO-GUARD Catenary Bar Screen Features and Advantages:

- JAM-PROOF
- No permanent submerged operating parts
- Non-Clog Trapezoidal Bars
- Channel bottom raking
- Minimum O&M costs
- Various bar spacing
- Various inclination angles
- Level and Timer controls

DISCHARGE ASSEMBLY



RETURN TRACK



DRIVE AND BEARINGS



RAKE AND BAR RACK

