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TRASHRACKS AND TRASHRACK CLEANER MACHINES

Protection and automatic
cleaning

Protecting the water intakes, channels, conduits, galleries and other types of hydraulic structures from vegetable, urban or industrial debris entering is achieved by installing protective trashracks.

The trashracks, fabricated in welded construction, are composed of vertical flat bars equally spaced and mounted in a metal square frame. The capacity to retain debris depends on of the spacing between the bars. Trashracks with smaller spacing retains the entrance of a greater amount of debris; on the other hand, the head losses, which are proportional to the square of the flow speed increase considerably.



Based on the dimensions of the clearance opening to be protected, the trashrack design is defined, as is the type of the assembly support and the quantity of trashrack panels.

Basically there are two types of trashracks

- Fixed trashracks bolted onto fixed pieces embedded in concrete;
- Movable trashracks that may be removed using a lifting beam.

The accumulation of debris over time onto the trashrack obstructs the free flow discharge section causing the increase of the head losses. The trashracks cleaning is a critical service that may be

mechanized by installing the Trashrack Cleaner Machines.

We provide a diversified range of different types of Trashrack Cleaner Machines, each case being are studied on its merits to assure a better customization for every application.

The Trashrack Cleaner Machines may be fixed-type to serve only one clearance or movable-type to clean many racks along the intake.

The operation of the Trashrack Cleaner Machines may be manual, semi-automatic or with different degrees of automation according to the customer's specifications.