

MECHANICAL COARSE SCREEN - TECHNICAL DATASHEET



NOTE: *The “Illustrative Images” in the offer details are added as indicative due to custom manufacturing and confidentiality.

The Mechanical Coarse Screen is a chain-driven unit designed to automatically remove large solids from the inlet channel of wastewater systems. It protects pumps, pipelines and downstream treatment equipment and supports safe and reliable operation of the headworks.

TECHNICAL SPECIFICATIONS

Feature	Value / Description
Application	Retention of large solids in inlet channels, protection of downstream equipment
Drive Type	Chain-driven mechanical coarse screen
Material Options	304/316 Stainless Steel, Hot-Dip Galvanized, Epoxy-Coated Carbon Steel
Bar Spacing	Coarse screen spacing selected according to project requirements
Installation Angle	Approx. 70°-75° (adjusted to channel geometry)
Operating Speed	Slow, continuous and controlled movement
Cleaning Elements	Replaceable rakes and cleaning blades
Discharge	To conveyor belt, container or screenings hopper

WORKING PRINCIPLE

As wastewater enters the channel, large solids accumulate on the bar rack of the Mechanical Coarse Screen. Chain-driven rakes lift the captured solids from the bottom to the top of the screen and convey them to the discharge section. A cleaning mechanism then removes the screenings and drops them onto a conveyor belt, into a container or into a screenings hopper.

ADVANTAGES

- Automatic removal of large solids from the flow
- Protects pumps and downstream treatment equipment
- Continuous and controlled operation with chain drive
- Robust construction and long service life
- Adaptable design for different channel depths and widths

APPLICATIONS

- Inlet structures of municipal wastewater treatment plants
- Industrial wastewater collection channels
- Pump and lift station inlets
- Headworks and preliminary treatment structures