

STATIC SCREENS – TECHNICAL DATASHEET



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

Static screens are inclined screening surfaces that remove fine solids from wastewater without consuming energy. The flow passes over the screen; water goes through the openings while solids remain on the surface and protect pumps and downstream equipment.

TECHNICAL SPECIFICATIONS

Feature	Value / Description
Application	Retention of fine suspended solids, protection of pumps and headworks equipment
Type	Inclined static screen mounted inside a channel
Material Options	304/316 Stainless Steel, hot-dip galvanized or epoxy-coated carbon steel
Screen Surface	Perforated plate or wedge-wire profile screen
Screen Opening	mm-range openings selected according to project requirements
Inclination	Typical 45°–60° depending on hydraulic conditions
Installation	Anchored to concrete channel walls by support frame and plates
Cleaning	Manual raking or scraping of the screen surface
Optional Equipment	Motorised cleaning device for sticky or fibrous solids
Flow Range	Designed according to plant design flow

OPERATING PRINCIPLE

Wastewater reaches the upper section of the static screen and flows over the inclined surface. Fine solids remain on the perforated or wedge-wire elements, while clarified water passes through and continues to the next treatment stage. The operator periodically rakes the surface and removes accumulated screenings.

ADVANTAGES

- No power consumption – fully passive screening solution.
- No moving parts, resulting in very low maintenance needs.
- Robust stainless-steel construction for long service life.
- Compact design fits into narrow channels and retrofit projects.
- Screen geometry customised to suit each project.

APPLICATIONS

- Municipal wastewater treatment plant inlet works
- Industrial wastewater and process water channels
- Pump stations, wet wells and collection structures
- Package treatment plant headworks