

EXTERNAL FEED DRUM SCREEN – TECHNICAL DATASHEET



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

The external feed drum screen is an automatic screening unit that continuously removes fine and medium solids from wastewater. The flow passes over the outside surface of the drum; the screen retains solids while clarified water passes through the drum to the outlet.

TECHNICAL SPECIFICATIONS

Feature	Value / Description
Application	Removal of fine and medium solids, protection of pumps and downstream process equipment
Type	External feed rotary drum screen
Material Options	304/316 Stainless Steel, optional hot-dip galvanized or epoxy-coated carbon steel
Screen Surface	Wedge-wire profile or perforated plate
Screen Opening	mm or micron openings selected according to project requirements
Drum Dimensions	Drum diameter and length defined according to flow rate and solids load
Drive System	Gearmotor-driven drum rotation
Wash System	Optional external spray nozzles for screen cleaning
Installation	Mounted above concrete channels or on a steel tank as a packaged unit
Discharge	Separated solids conveyed to a launder, screw conveyor or handling unit and dropped into a container

WORKING PRINCIPLE

Wastewater enters the feed box and flows over the outer surface of the rotating drum. The wedge-wire or perforated screen captures solids on the outside, while filtered water passes through the drum and discharges to the outlet channel. The slow drum rotation, together with internal flights or a spray system, transports accumulated screenings to the discharge point and into a container or screenings handling equipment.

ADVANTAGES

- Continuous separation of fine and medium solids with high hydraulic capacity.
- Low risk of clogging thanks to wedge-wire screen design.
- Compact, enclosed design helps control splashing and odour.
- Robust stainless-steel construction ensures long service life.
- Low energy consumption and simple maintenance.
- Customizable drum size and screen opening to match project needs.

APPLICATIONS

- Municipal wastewater treatment plants
- Industrial wastewater treatment plants
- Food and beverage industry process lines
- Textile, tannery and paper industry effluents
- Process water recycling and reuse systems