

INTERNAL 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 internal feed drum screen is a compact rotary unit designed to remove fine suspended solids from wastewater. The flow enters the inside of the drum; the screening surface retains fine particles while clarified water passes through to downstream units.

TECHNICAL SPECIFICATIONS

Feature	Value / Description
Application	Fine solids removal and protection of pumps and downstream process equipment
Type	Internal feed rotary drum screen
Material Options	304/316 Stainless Steel, hot-dip galvanized or epoxy-coated carbon steel on request
Screen Opening	mm or micron openings selected according to project requirements
Drum Dimensions	Drum diameter and length defined according to flow rate and load
Drive System	Gearmotor-driven drum rotation
Washing System	Optional external spray nozzles for screen surface cleaning
Installation	Installed in concrete channels or mounted on a steel tank as a packaged unit
Discharge	Captured solids conveyed by internal flights or screw and dropped into a container or screenings handling unit

OPERATING PRINCIPLE

Wastewater flows into the internal feed chamber of the drum. As the drum rotates, the perforated or slotted screen surface captures fine solids on the inner side, while the filtered water passes through the openings into the lower tank or effluent channel. Accumulated screenings are conveyed by an internal screw or flights towards the discharge section and fall into a container, screw conveyor or screenings handling unit.

ADVANTAGES

- High-efficiency removal of fine suspended solids.
- Reduced clogging risk thanks to continuous drum rotation.
- Compact and enclosed design for splash and odour control.
- Robust stainless-steel construction for long service life.
- Low energy consumption and simple maintenance.
- Customizable drum diameter, length and screen opening according to project needs.

APPLICATIONS

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