

Solid-and-liquid separating screen for drainage treatment and production processes.

Inclined Solid-Liquid Separating Screen

Features

- Based on a strong wedge wire screen with a fine slit width.
- A product of simple construction that ensures ease of maintenance and prevents clogging of the screen as much as possible.
- Installed in a small area with few restrictions with no operating power required.
- A fine screen for drainage treatment with a sales record of accomplishment of more than 30,000 units in Japan.

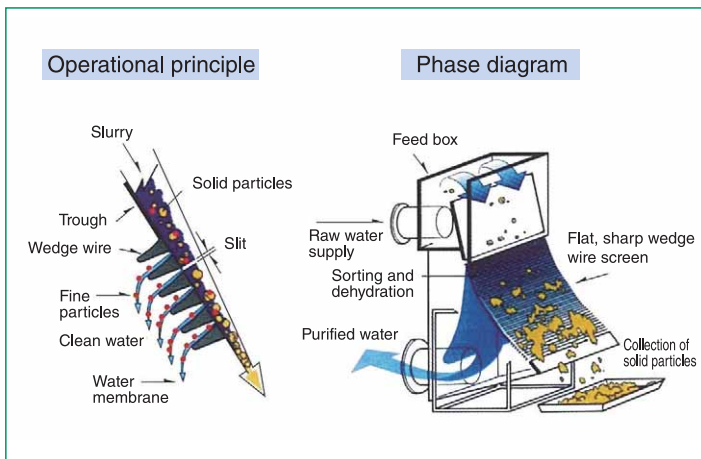


Application for dyeing drainage

Overview

(Technical principles, actions, etc.)

The inclined solid-liquid separating screen is used for wastewater treatment and production stages. The screen has a large number of slits comprised of wedge wires, i.e., the cross-section of them is wedge shaped. As shown, when slurry is provided from the upper part in the tangential direction, the screen will continuously separate solid foreign particles that are as large as or larger than half the slit opening width. There is a distance between the opening of each slit and the point of separating solid foreign particles from the slurry. The width of the point that separates solid foreign particles is half the width of the opening of the slit, which reduces the clogging of the screen as much as possible. Furthermore, the screen collects solid foreign particles continuously.



Operational Principle

Applications

- Wastewater treatment at chemical plants for textiles, dyeing, leather products, etc.
- Wastewater treatment, classification, dewatering, and recovery at processing plants for agricultural and marine products.
- Solid-and-liquid separation at production process stages, such as chemical and food production stages.
- Treatment of public utility sewage, community sewage, and wastewater from multistory buildings.
- Intake gates of river water.

Slit width (per square meter) vs. rough capability, classified by treatment water type

Unit: m³/hr

Slit	0.5mm	0.75mm	1.0mm	1.5mm
Dyeing cleaning drainage	50	60	—	—
Fruit processing drainage	50	60	70	—
Hog raising drainage	55	70	—	—
Disposal sewage	—	—	60	80
River water	—	100	110	130

Introductory Track Record

China (including Taiwan)

Factory effluent treatment, water treatment for fiber industry, and solid-liquid separation for synthetic rubber industry

Iran and Saudi Arabia

Resin plants and resin pellet collection facilities

Others

Sugar plants and fertilizer plants in Asian countries, such as Thailand and Indonesia

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