YUBO™
Filtration. Solution. Perfection

Wedge Wire Products

SCRAPER DRUM SCREEN Customized

A Scraper drum screen is the core component of an automatic self-cleaning filtration system, specifically designed for high-viscosity liquids or fluids with heavy solid loading.

Unlike standard filters that require manual cleaning or replacement, these elements use a mechanical blade to physically scrape debris off the surface while the system remains online.

1. Types of Scraper drum screens

Wedge Wire Screen (Most Common): Made of V-shaped stainless steel wires. This profile creates a widening gap that prevents particles from getting wedged, making it the most efficient surface for scraping.

Perforated or Mesh Type: Used for specific industrial applications, typically made of 304 or 316L stainless steel.

Internal vs. External Scraping:

Internal: The scraper rotates inside the cylinder (fluid flows inside-out).

External: The scraper moves along the outer surface (fluid flows outside-in).

2. Key Specifications

Materials: Usually 304 or 316L Stainless Steel for the element; PTFE (Teflon), Nylon, or Bronze for the scraper blades.

Filtration Precision: Typically ranges from 20µm to 3,500µm.

Operating Limits: Standard units handle up to 1.0 MPa (150 psi) and temperatures up to 200°C (392°F).

3. Common Applications

This technology is essential for "difficult" fluids that would quickly clog a traditional bag or cartridge filter:

High-Viscosity: Adhesives, resins, paints, inks, and polymers.

Food & Beverage: Chocolate, honey, syrup, vegetable oils, and juice concentrates.

Industrial Water: Paper mill coatings, cooling water, and wastewater treatment.

Petrochemicals: Lubricants, fuel oils, and paraffin.

4. Main Benefits

Non-Stop Operation: Continuous filtration without downtime for cleaning.

No Consumables: Eliminates the cost of buying and disposing of filter bags or cartridges.

Environmentally Friendly: Reduces waste and prevents operator exposure to hazardous or messy fluids.

+86 311 8595 5658
Jinling Mansion 2-3-403,Yuhua Road 106-1,Shijiazhuang,Hebei,China
info@yubofiltration.com
https://www.yubofiltration.com