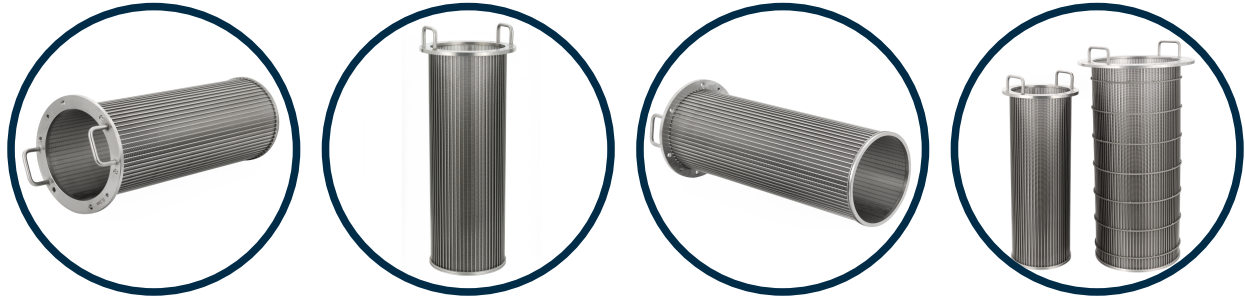


SELF-CLEANING DRUM SCREEN

Customized



A self-cleaning filter element is a, usually, high-strength stainless steel wedge wire or mesh component (15–3000 microns) that automatically removes captured particles via backwashing, suction, or mechanical scraping. These screens ensure continuous filtration, reduced downtime, and are commonly used in industrial water treatment and high-viscosity fluid applications

Key Aspects Of Self-cleaning Drum Screen

Structure & Material: Typically manufactured from durable materials like stainless steel (304/316L), titanium alloy, or specialized wedgewire screens. Wedge wire elements offer high strength and easy cleaning without dead corners.

Cleaning Mechanisms

Backwashing: Reverses the liquid flow to dislodge particles.

Mechanical Scraping: A scraper or brush rotates to remove debris from the surface.

Suction Scanning: Uses vacuum scanners to clean specific areas of the screen.

Performance Metrics

Filtration Rating: Common ranges are 50-3000 microns, with some specialized screens offering finer filtration.

Cleaning Time: Typically automated, taking only 12-18 seconds to clean without interrupting production.

Controls: Automated via differential pressure sensors (monitoring when the element is dirty) or timing mechanisms.

These systems are ideal for applications requiring consistent flow, such as water treatment, paper mills, petrochemical plants, and paint/coating industries