WEDGE WIRE PRODUCT

Rotary drum screens

At SIMO Screens, we make wedge wire drums and complete rotary drum screens for wastewater and process water, under our own quality control.

Continuous self-cleaning with spray bars keeps the drum open, so the screen runs with the line instead of stopping it.

DRUM	COMPLETE MACHINE	SLOT
Made by SIMO	**Under SIMO QC**	**0.25 to 3 mm typical**



V-PROFILED WIRE

Resists clogging. Carries the pressure. Opens more area.

The wire meets a particle at two points and the slot widens behind the face, so what passes cannot lodge.

WELDED AT EVERY JUNCTION

Holds its slot under load.

Each wire is resistance welded to every support rod, so the screen resists pressure transients up to 300 PSI and thermal cycling without stretching or tearing.

BUILT TO YOUR EQUIPMENT

Fits at the first shutdown.

Made to your drawing, sample or vessel, in the alloy the medium calls for, so it drops into the equipment already in place.

FEATURES AND BENEFITS

Continuous operation

The rotating drum is cleaned on every revolution, so screening continues without stopping the line for manual cleaning.

High open area

A continuous wedge wire slot provides more open area than perforated plate at the same opening.

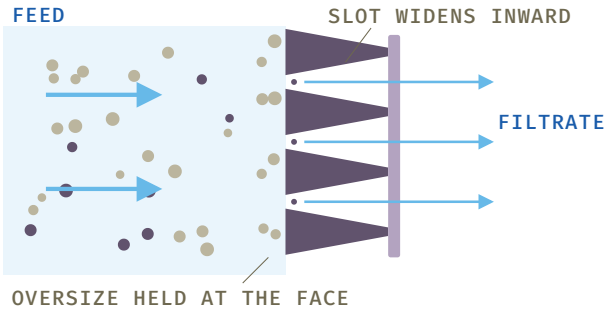
Non-pegging slot

The flat wire face meets the solids and the slot widens behind it.

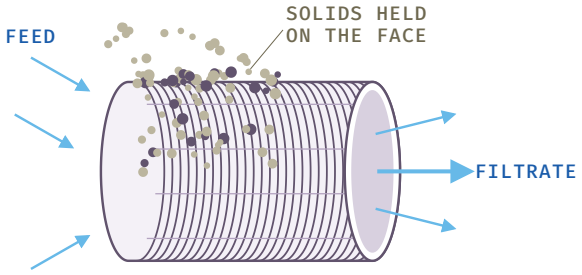
Rigid welded drum

Resistance welding at every wire and rod intersection keeps the drum round and true on its rollers under solids load.

HOW THE SLOT WORKS



Oversize is held at the face; the slot widens inward, so whatever passes cannot lodge.



On a cylinder, flow passes from outside to inside and solids stay on the slot face.

SPECIFICATION

Ranges and options

Slot opening	25 microns (0.025 mm) to 25 mm
Slot tolerance	Plus or minus 5% of nominal, stated on the drawing
Drum diameter	25 mm to 800 mm
Drum length	Up to 6,000 mm
Feed arrangement	Internally fed or externally fed
Profile wire	Light, standard, heavy duty or custom: 12SB to 56SB
Support rods	Q23, Q35, Q55, 35SB, F123, F203, F253, round 120, round 140
Materials	SS 304, SS 316L, Duplex 2205, Super Duplex 2507, Hastelloy, Monel
Flow configuration	Radial internal inside to outside, or radial external outside to inside

QUALITY

ISO 9001:2015
Quality system covering design, production and inspection.

Slot control
Feeler gauges through the run; optical measurement where a gauge cannot be used.

Final inspection
Report records minimum, maximum and mean slot against tolerance.

Traceability
QR-coded tag (laser marking where required); heat numbers traced to the MTC.

OFTEN SUPPLIED WITH

- Screen cylinders
- Screw press screens
- Sieve bend (DSM) screens

HOW WE ENGINEER YOUR SCREEN

01 **Share the requirement**
Drawing, sample or process data

02 **Engineering review**
Slot, profile, rod, material and flow

03 **CFD and FEA**
Pressure drop and strength, where required

04 **Drawing approval**
GA drawing and datasheet approved

05 **Manufacture**
Resistance welded and fully inspected

06 **Dispatch**
Mill Test Certificate with every product

FOR A QUOTATION, SEND OUR ENGINEERS

01 Application: inlet works, wash water, juice, fibre recovery or other.

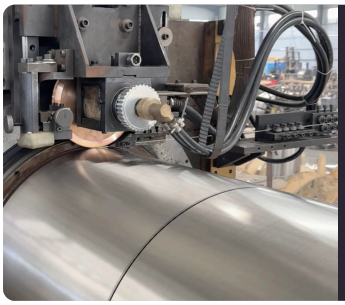
02 Flow rate, peak and average.

03 Solids concentration and type: fibrous, gritty, greasy or mixed.

04 Preferred feed arrangement, or the existing machine type.

05 Drum dimensions and slot, if replacing an existing drum.

06 Liquid chemistry and temperature.



Send your rotary drum screens specification

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Scan to open the specification form. Our engineers will connect with you within a working day.