WEDGE WIRE PRODUCT

Basket strainers

At SIMO Screens, we make rigid wedge wire baskets and complete basket strainers that protect pipelines and pumps.

A rigid wedge wire basket does not tear or bulge like mesh, so the strainer protects the pump until it is cleaned on schedule.



ELEMENT	HOUSINGS	CLEANING
Rigid wedge wire	**Simplex or duplex on request**	**Backflush friendly**

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

Self-supporting slot

The welded wedge wire basket needs no separate mesh liner, which removes the risk of a liner tearing or separating in service.

Non-clogging geometry

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

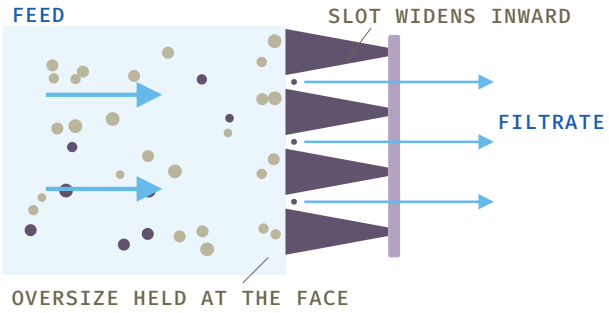
Designed for blocked conditions

Differential pressure is checked by calculation or FEA on every order, against the highest load the basket can see.

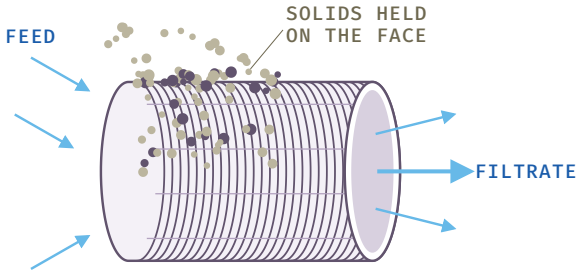
Made to fit existing housings

Baskets and elements are built from the housing drawing, basket drawing or a sample, to drop into the same seat.

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
Diameter	25 mm to 800 mm
Length	Up to 6,000 mm
Flow configuration	Radial internal, inside to outside; or radial external, outside to inside
Materials	SS 304, SS 316L, Duplex 2205, Super Duplex 2507, Hastelloy, Monel
Options	Reinforcing rings, perforated or bar backing, lifting handles, gasketed top rings
Construction	Resistance welded; resists thermal cycling and pressure transients up to 300 PSI
Scope	Baskets and elements, or complete strainers to client requirement

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

- Resin traps
- Outlet baskets and collectors
- Screen cylinders
- Candle filter elements

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 Strainer type: simplex, duplex, inline or T-type, and the housing make and model if known.

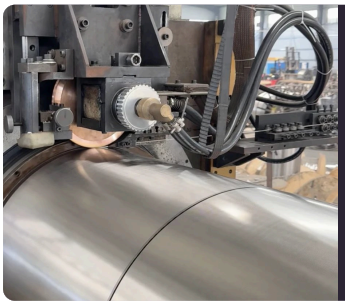
02 Housing or basket drawing, or a sample basket.

03 Line size, flow rate and fluid.

04 Debris to be caught, and the slot or mesh used now.

05 Operating pressure and temperature, and the highest differential pressure.

06 Housing material and preferred basket material.



Send your basket strainers specification

sales@simoscreens.com · +91 93730 08466 (phone and WhatsApp)

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