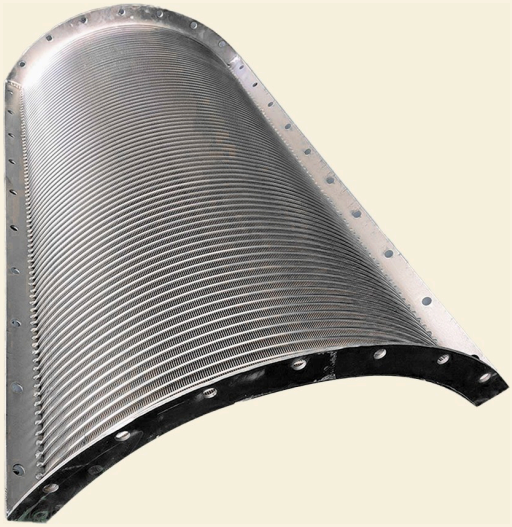
WEDGE WIRE PRODUCT

Sieve bend (DSM) screens

At SIMO Screens, we make static sieve bend (DSM) screens that dewater, deslime and recover fibre with no drive and no moving parts.

No drive and no moving parts to maintain; when the bar edges wear, the deck is reversed to restore the cut.

SLOT	REVERSIBLE	HOUSING
0.1 to 3 mm typical	Fresh edge on turning	Optional feed box



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

No power or drive

As a static screen, the sieve bend separates by gravity and feed velocity, with no motor to run or maintain.

Fine cut for a given slot

The slicing action separates well below the slot width, so a wider and more robust slot can be used for a given.

Non-pegging slot

The V-profile slot widens below the face, so particles that enter pass through instead of lodging.

Reversible decks

Decks are built to be turned end for end, which gives a second working life when the upstream wire edges wear.

USED IN

MINING AND MINERALS · SUGAR AND DISTILLERY · PULP AND PAPER · WATER AND WASTEWATER TREATMENT · FOOD PROCESSING

WHY WEDGE WIRE

Non-clogging geometry

The V-profiled wire meets an oversize particle at two points, and the slot widens inward, so what passes the face cannot lodge behind it.

One rigid structure

Resistance welds at every wire and rod intersection resist thermal cycling and pressure transients up to 300 PSI.

More open area

Continuous slots give more open area than mesh or perforated plate at the same aperture, for capacity with low pressure drop.

SPECIFICATION

Ranges and options

Slot opening	25 microns (0.025 mm) to 25 mm, tolerance plus or minus 5% of nominal
Width, radius and arc	To the application or the existing housing
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 C-276, Monel
Deck design	Reversible end for end
Supply options	Deck only, deck in frame, or complete unit with feed box and housing
Construction	Resistance welded at every intersection

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

- Flat panels and false bottoms
- Rotary drum screens
- Centrifuge baskets

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: desliming, juice screening, spent wash, starch, fibre recovery, effluent or other.

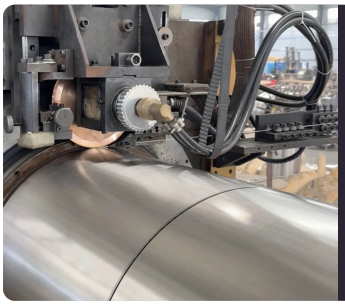
02 Feed rate and solids concentration.

03 Particle size distribution of the feed, or the cut size you need.

04 Current slot and screen dimensions, if you are replacing an existing deck.

05 Radius, arc and width, or a drawing of the housing.

06 Slurry chemistry and temperature.



Send your sieve bend (dsm) screens 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.