WEDGE WIRE PRODUCT

Screw press screens

At SIMO Screens, we make reinforced screw press screens that carry the compression and torque of sludge and process dewatering.

A reinforced screen carries the press's compression and torque without deforming, so the cake stays dry and the press stays on line.

CONSTRUCTION	SLOT	MATERIALS
Reinforced rings	0.15 to 1 mm typical	SS 304 to Duplex



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

High open area

The continuous slot releases liquid faster than perforated plate at the same slot size, which supports dewatering capacity.

Non-plugging slot

With the flat wire face inside against the feed and the slot widening outward, fines clear through the screen instead of lodging.

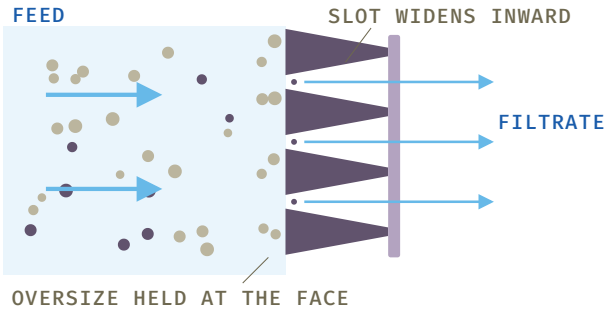
Reinforced structure

Heavy profiles, deep rods and reinforcing rings hold roundness under continuous torque and pressure.

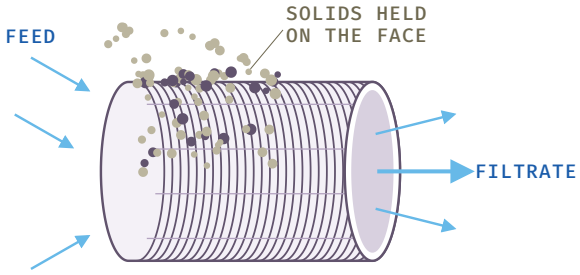
Split construction

Two-half screens with longitudinal flanges allow removal without withdrawing the screw.

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, tolerance plus or minus 5% of nominal
Screen diameter	25 to 800 mm
Screen length	Up to 6,000 mm
Profile wire	Heavy duty or custom, from 12SB to 56SB as the load allows
Support rods	Q23, Q35, Q55, 35SB, F123, F203, F253, round 120, round 140
Flow configuration	Radial, internal profile, inside to outside
Construction options	One piece or split in two halves; uniform or zoned slot
Reinforcement	Rings along the length and machined end flanges
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

- Screen cylinders
- Rotary drum screens
- Pressure screen 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

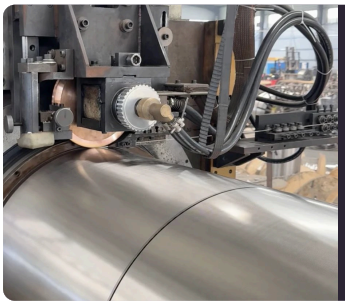
04 Drawing approval
GA drawing and datasheet approved

05 Manufacture
Resistance welded and fully inspected

06 Dispatch
Mill Test Certificate with every product

FOR A QUOTATION, SEND OUR ENGINEERS

01 Press make, model and size, or the press drawing.
02 Feed: sludge type, fibre, food waste or other.
03 Feed rate, and solids content in and out.
04 Screen inside diameter and length, and the slot now used.
05 Flange and fixing details, or the worn screen.
06 One piece or split, and uniform or zoned slot.



Send your screw press screens specification

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