WEDGE WIRE PRODUCT

Centrifuge baskets

At SIMO Screens, we make complete centrifuge screens and baskets for sugar, coal, mineral and chemical centrifugals, built to each machine.

Built to the machine and balanced for its speed, the basket fits at the first change-out and resists abrasion through the run.



SLOTS	BALANCING	MATERIALS
Axial or circumferential	On request	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

Internal profile construction

The flat face of the profile wire lines the inside of the basket and the slot widens outward.

Welded at every intersection

A full-penetration weld at each wire and rod crossing holds the slot geometry under cyclic load and resists weld cracking.

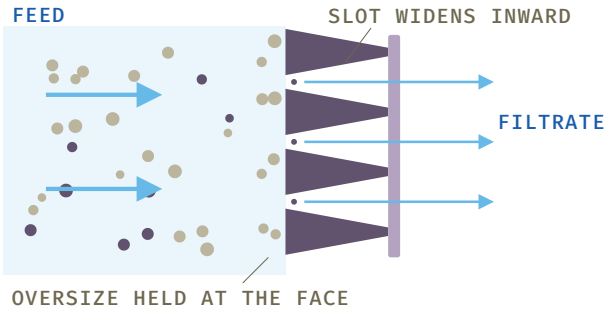
Controlled slot width

Slots are checked with feeler gauges at set-up, during the run and at the end of each screen.

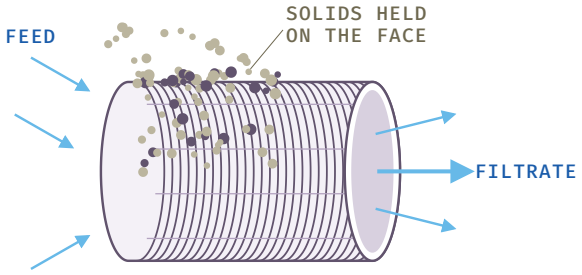
Profile selected for abrasion

A heavier profile wire extends service life on abrasive coal and ore.

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
Form	Conical, cylindrical or segmented sections
Slot orientation	Axial on most coal baskets; to the OEM design on other machines
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 profile, inside to outside

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

- Sieve bend (DSM) screens
- Flat panels and false bottoms
- Screen cylinders

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 Centrifuge make, model and type: vibrating, screen scroll, pusher, continuous or batch.

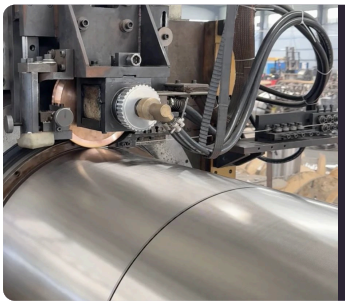
02 The OEM basket drawing, or the worn basket or a sample for measurement.

03 Product handled: coal size range, ore, sugar grade or crystal slurry.

04 Existing slot and wire orientation, and any problems you see in service.

05 Operating speed, if known.

06 Slurry chemistry, temperature and wash water quality.



Send your centrifuge baskets specification

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