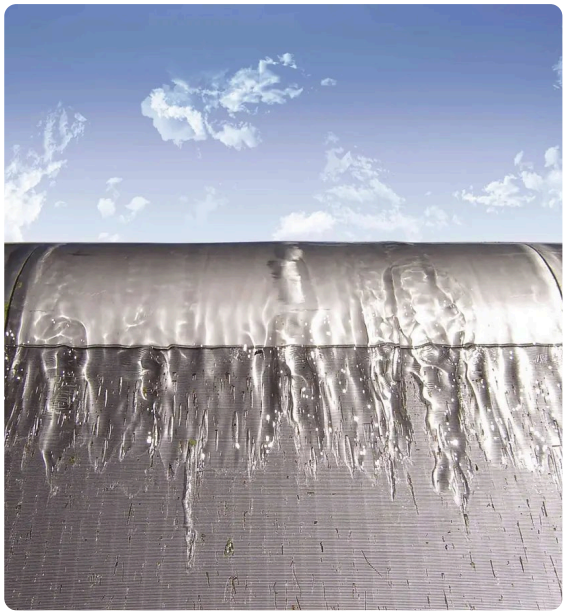
FABRICATED ON WEDGE WIRE

Coanda intake screens

At SIMO Screens, we make self-cleaning Coanda intake screens for small hydro, irrigation and stormwater.

The screen cleans itself with the flow, so intakes run unattended between inspections.

SLOT	CLEANING	MATERIALS
0.2 to 1 mm typical	Self-cleaning	SS 304 and SS 316L



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-cleaning by geometry

The flow sweeps debris off the face, so the panel works as a self-cleaning intake screen without rakes, brushes or motors.

Fine screening at high flow

Because only a thin layer is sheared into each slot, a Coanda screen retains particles finer than the slot itself.

No power required

The screen is static, which suits remote intakes without a grid supply.

Complete assembly

Panels are supplied with the acceleration plate and collection frame, which keeps the critical geometry under one manufacturer's control.

USED IN

AQUACULTURE AND FISHERIES · RAINWATER HARVESTING AND STORMWATER · WATER AND WASTEWATER TREATMENT

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	Fine slots for sediment, coarser slots for leaf and litter removal
Wire tilt	Designed together with the slot for the flow and the material to be removed
Profile wire	Light, standard or heavy duty to suit sediment load and abrasion
Panel form	Curved or flat panels, in modules to suit the intake width
Material	SS 304 for fresh water; SS 316L or Duplex 2205 for brackish or aggressive water
Frame	Stainless frame with acceleration plate and fixing to the weir
Collection	Collection frame, with a fabricated channel or trough below the screen

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

- Passive intake screens
- Fish screens
- Rooftop rainwater filters
- 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: hydro, irrigation, stormwater, rainwater or fish-friendly intake

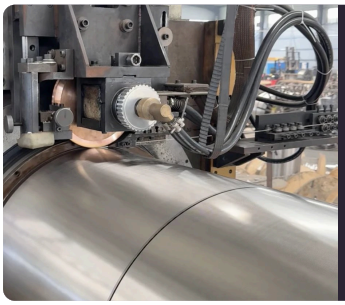
02 Design flow to be screened, and the range of river or channel flows

03 Available head from the weir crest to the collection channel

04 Intake width available and a sketch or drawing of the weir

05 What must be removed: sediment size, leaves, litter or fish

06 Water quality, fresh or brackish



Send your coanda intake 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.