

APPLICATION

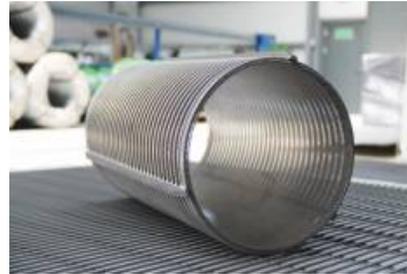
Gas and oil industries

- Production of fuel and lubricants
- Desulphurization
- Drying of natural gas
- Regeneration of catalysts
- Catalytic reactors
- Protection of fittings and compressors



Chemical industry

- Processing of paint and coating
- Processing of chemicals
- Processing of polymers
- Purification of potassium
- Purification of phosphates



Mining

- Coal enrichment



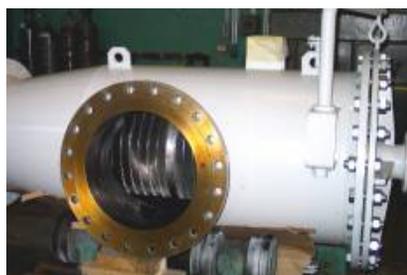
Food industry

- Extraction
- Fluidized beds
- Absorption
- Adsorption
- Sorting
- Drying



Paper

- Coating
- Blending
- Dewatering
- Refining



Water process

- Municipal drinking water treatment
- Waste water treatment
- Industrial water treatment
- Ion exchanger
- Desalination of seawater
- Irrigation



Mineral and aggregate processing

- Exploitation of water
- Exploitation of crude oil
- Exploitation of natural gas
- Recycling

FLAT PANELS OF WEDGE WIRE SCREENS

Flat panels of wedge wire screens are manufactured by welding special profiled working wires to support wires at an angle of 90 degrees.

A precise slot is received by means of applying modern welding technology between working wires and support wires. The result is a rigid screen construction with the capability of withstanding heavy loads.

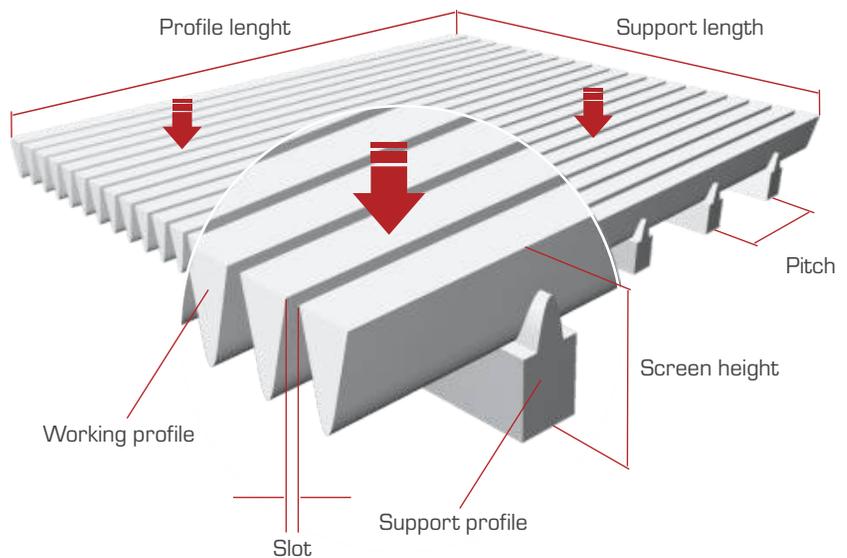
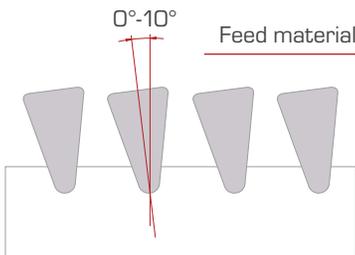
Innovative solutions of technology allows:

- to control quality of welding
- to use various working wires
- to design various slot sizes in one screen
- to design various support wires in one screen and
- various distances between support wires in one screen
- to gain superior flatness of sieves (no corrugation of working wires between support wires)

Slot: from 0,05 mm

Maximum size: 3500 x 4000 mm

Profile tilt: 0°-10°



Standard tolerances*:

Length and width

≤ 500 mm	± 2 mm
> 500 mm and ≤ 2000 mm	± 3 mm
> 2000 mm	± 4 mm

Slot opening

± 0,050 mm
max. deviation ± 0,100 mm

Screen height

± 0,3 mm

Diagonal

≤ 500 mm	± 2 mm
> 500 mm and ≤ 1000 mm	± 3 mm
> 1000 mm and ≤ 2000 mm	± 4 mm
> 2000 mm	± 5 mm

Flatness

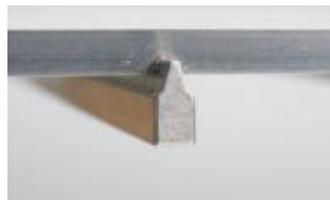
4,00 mm/m

Straightness

4,00 mm/m

* Different set of tolerances needs individual agreement.

Support profile



Technical parameters of support profiles available on page 6

Open area

An important parameter of the screen is the open area. Open area $F_o(\%)$ is the relation of the slot surface to the total screen surface. Open area is calculated according to the following formula:

$$F_o = S / (S+A) \times 100 (\%)$$

A - width of the working wire (according to the table of working wires)

S - slot size

For example:

A sieve was made of working wire Sb 28 with slot $s = 0,24$ mm

$$F_o = 0,24 / (0,24 + 2,2) \times 100\% = 9,6\%$$

CYLINDRICAL SCREENS

Slot: from 0,02 mm

Maximum length: 6000 mm

Standard tolerances*:

Diameter		Slot opening
$\varnothing \leq 300$ mm	± 2 mm	$\pm 0,030$ mm
$\varnothing > 300$ mm	$\pm 2,5$ mm	max. deviation $\pm 0,100$ mm
Length		Screen height
$\varnothing \leq 300$ mm	± 2 mm	$\pm 0,4$ mm
$\varnothing > 300$ mm	± 4 mm	

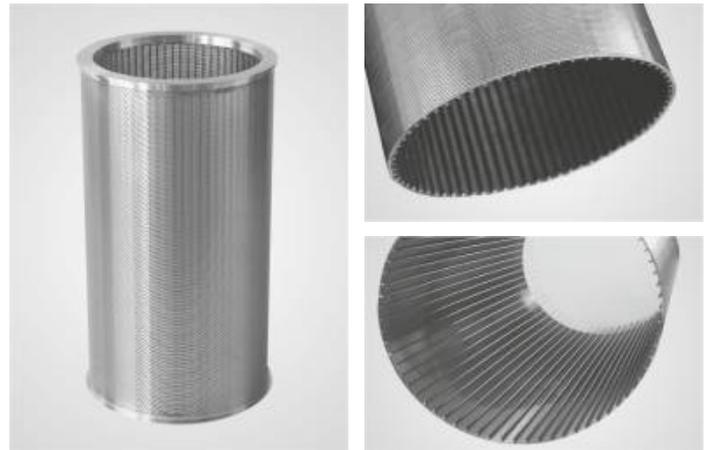
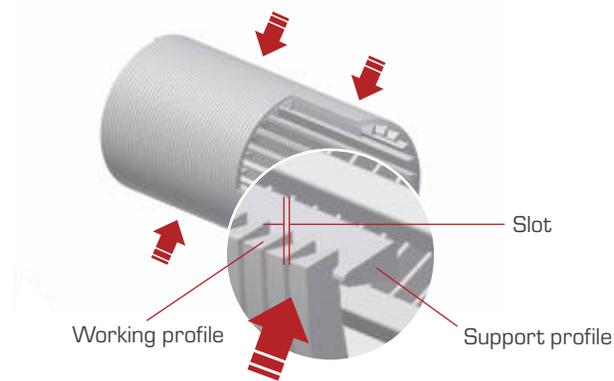
* Different set of tolerances needs individual agreement

Cylindrical screens are received by simultaneously winding a spiral of profiled working wire and welding them to support wires, which are arranged along the axis of the cylindrical construction. This technology allows to provide welded profile wire screens for applications where high precision of the screen together with high strength is required.

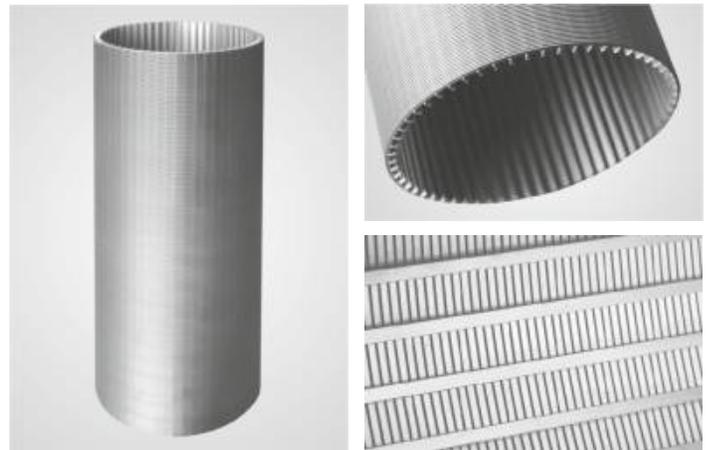
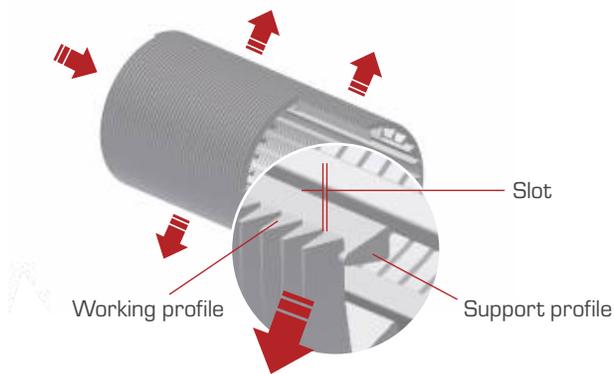
Thanks to the newest welding technology we can provide:

- optional distance between support wires
- very precise and repeatable slot
- screens in accordance to special requests of our clients

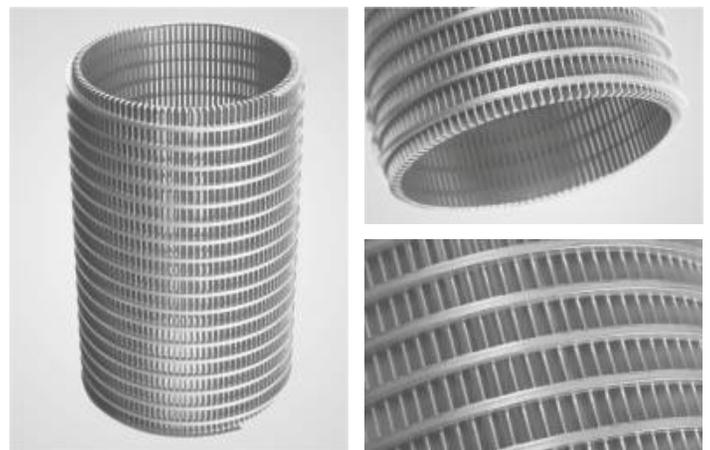
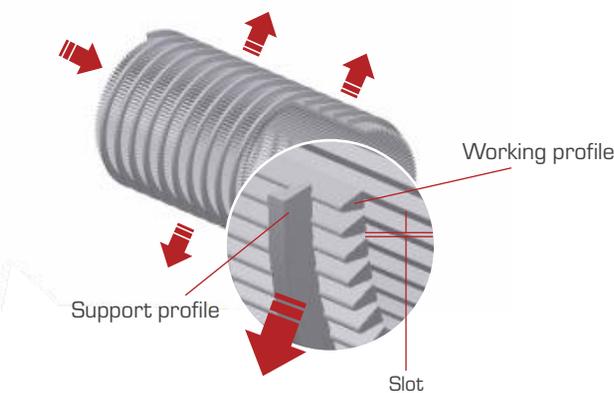
OZ – circumferential slot, flow from outside to inside (FOTI)



OZR – circumferential slot, flow from inside to outside (FITO)



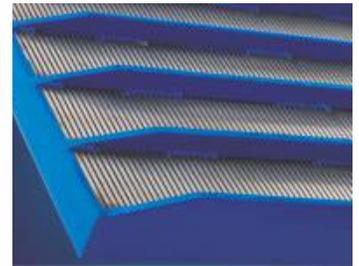
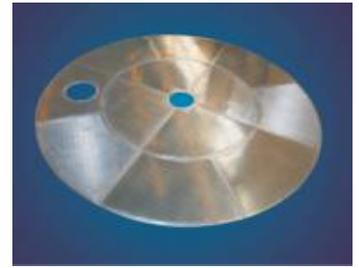
RW – slot parallel to the axis, flow from inside to outside (FITO)



Flat sieves

Flat sieves are flat panels of welded profile wire, fixed to a frame and adapted to assembly. Depending on the kind of application, flat sieves can be divided into:

- **Sieves working in dynamic systems**
 - panels to be incorporated in vibrating sieves
 - special reinforcement depending on the sieve load is necessary
 - special finishing to guarantee secure, long working time, and proper fixing of the sieve to the application frame
- **Sieves working in static systems**
 - do not require any special reinforcements,
 - can work as bottoms and decks in tanks and storage reservoirs and sumps.

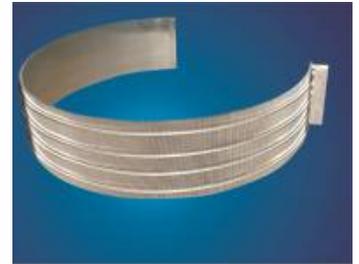


Arch sieves

Arch sieves are mainly used for dewatering and separation of solid particles from liquids. Depending on the application character, they can be divided into arch sieves with gravitational loading or arch sieves with pressured loading.

The application of arch sieve provides:

- uniform flow onto the sieve (usage of the whole sieve surface)
- high speed of flow onto the sieve
- increased classification effectiveness and efficiency (due to the possibility of applying the working wire at a defined angle relative to support wire).



Gutter sieves

Gutter sieves are used as bottoms of screw conveyors, where in addition dewatering or separation is required apart from transportation.



Conical sieves, baskets

Conical sieves and conical baskets are mainly used in centrifuges. They can be divided in two categories depending on their work character:

- **Working in dynamic system**
 - for all kinds of centrifuges,
 - with self supporting structure consisting of ribs, rings, flanges which constitute an integral part of the sieve construction. After a period of exploitation the whole basket has to be replaced:
 - without the supporting structure
 - as screening insert for non disposable structural frames. The only thing to be replaced is the screen insert.
- **Working in static systems- centrifugal dewatering screens**
 - filter cartridges
 - filter elements for pipelines.



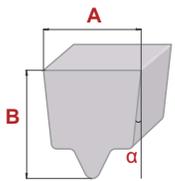
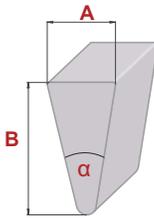
Others

Available on request

TECHNICAL PARAMETERS

Working profiles

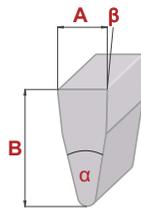
Type	A (mm)	B (mm)	$\alpha(^{\circ})$	$\beta(^{\circ})$
Type Sb				
Sb 6	0,50	1,20	12	
Sb 8	0,60	1,20	22	
Sb 10	0,75	1,30	20	
Sb 12	1,00	2,00	20	
Sb 18	1,50	2,50	23	
Sb 22	1,80	3,70	23	
Sb 28	2,20	4,50	23	
Sb 34	2,80	5,00	23	
Sb 42	3,40	6,50	23	
Sb 60	4,00	9,00	20	
Sb 70	5,00	10,00	24	
SbA 50	5,00	6,00	40	
Sb 55*	5,00	5,50	6	



Other dimensions available on a special request

*Sb 55

Type Sbb	A	B	α	β
Sbb 34	2,20	5,00	23	4
Sbb 38	2,50	4,00	40	5
Sbb 42	2,80	6,50	23	4
Sbb 48	3,40	6,00	70	4
Sbb 50	3,50	8,00	23	4
Sbb 76	5,00	10,00	23	5
2,4 x 5	2,40	5,00	23	0
3 x 6,5	3,00	6,50	23	0

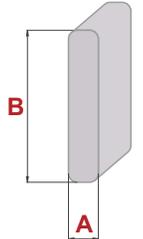


Other dimensions available on a special request

Special working wires separate highly abrasive materials. During their service the slot size does not increase considerably along with the abrasion of working surface. They are ideal for cylinder and conical sieves used in vibrating centrifuges. They increase the sieve's life span together with preventing clogging.

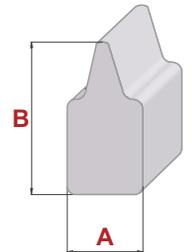
Support profiles

Type	A (mm)	B (mm)
Type I		
I 10 x 3	3,00	10,00
I 10 x 2	2,00	10,00
I 12 x 3	3,00	12,00
I 15 x 3	3,00	15,00
I 18 x 2	2,00	18,00
I 20 x 2	2,00	20,00
I 30 x 2	2,00	30,00
I 38 x 3	3,00	38,00



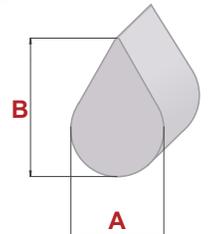
Other dimensions available on a special request

Type Q	A	B
Q 25	2,00	3,00
Q 35	3,00	5,00
Q 55	4,00	8,00



Other dimensions available on a special request

Type D	A	B
D 45	3,8	5,6



Other dimensions available on a special request

Standard materials

Structure	DIN	AISI/ASTM	UNI/DIN	BS	Anfor	Branding
Ferrite	1.4016	430	X8 Cr17			
Austenite	1.4301	304	X5 CrNi 1810	304 S 15	Z 6 CN 18.09	
	1.4307	304 L	X2 CrNi 1811	304 S 12	Z 2 CN 18.10	
	1.4373	202	X12CrMnNiN 18-9-5	-	-	
	1.4401	316	X5 CrNiMo 1712	316 S 16	Z 6 CND 17.11	
	1.4404	316 L	X2 CrNiMo 1712	316 S 12	Z 2 CND 17.12	
	1.4439	317 LN	X2 CrNiMoN 17-13-5	-	-	
	1.4539	904 L	X1 NiCrMoCuN 25205	S 31254	Z 1 NCOU 25.20	SMO 904
	1.4541	321	X6 CrNiTi 1811	321 S 12	Z 6 CNT 18.10	
	1.4571	316 Ti	X6 CrNiMoTi 1712	320 S 31	Z 6 CNDT 17.12	
Duplex	1.4462	329 LN	X2 CrNiMoN 2253	S32205	Z 2 CND 22.05 Az	SAF 2205
	1.4410	439	X2 CrNiMoN 2574	S32750	Z 3 CND 25.07 Az	SAF 2507
Others	2.4360		NiCu 30 FE	-	-	Monel 400
	2.4610		NiMo 16 Cr 16 Ti	-	-	Hastelloy C4
	2.4816		NiCr 15 Fe	-	-	Inconel 600
Carbon steel*	1.0038	A570 Gr 30	-	Fe 360 B FU	E 24 - 2NE	-
	1.0570	A572 Gr 50	-	Fe 510 D1 FF	E 36 - 3	-

* Available finishes: galvanized steel, Pro-Zinal (ZnAl), varnished steel
 ** Execution in other steel grades requires individual arrangement.

