

# OPTIMA

## Welded Wedge Wire Screens & Baskets



### The OPTIMA Products

- Wedge Wire Panels
- Plain Sieve Panels
- Sieve Bends
- Slotted Screen Baskets
- High Precision Filter Tubes
- Industrial Filter Media

STEINHAUS GmbH is a dynamic, well-founded, medium-sized company that has been in existence for 100 years and is located in the Ruhr area.

## OPTIMA - Specialized in these industries

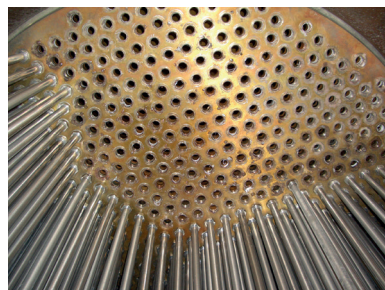
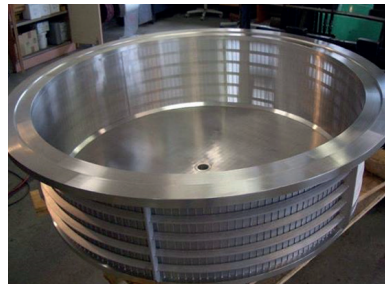
- Mining & minerals
- Stone & earth Industry
- Water treatment
- Paper & pulp
- Chemical & petrochemical
- Pharmaceutical industry
- Food & beverage
- Renewable energy generation (biogas)

## Main applications

- **Solid-liquid separation in almost unlimited application**
  - Drainage pipes
  - Filter cartridges
  - Screen baskets
  - Filter drums & tubes
  - Centrifuge surfacing
- **For dewatering, desludging and classifying on screening machines**
  - Sieve bends
  - Wedge wire panels
  - Plain sieve panels
  - Centrifuges
- **Filters**
  - Filter bottoms
  - Support panels
  - Centrifuge surfacing
- **Breweries & malt houses**
  - Kiln
  - Lautering floors

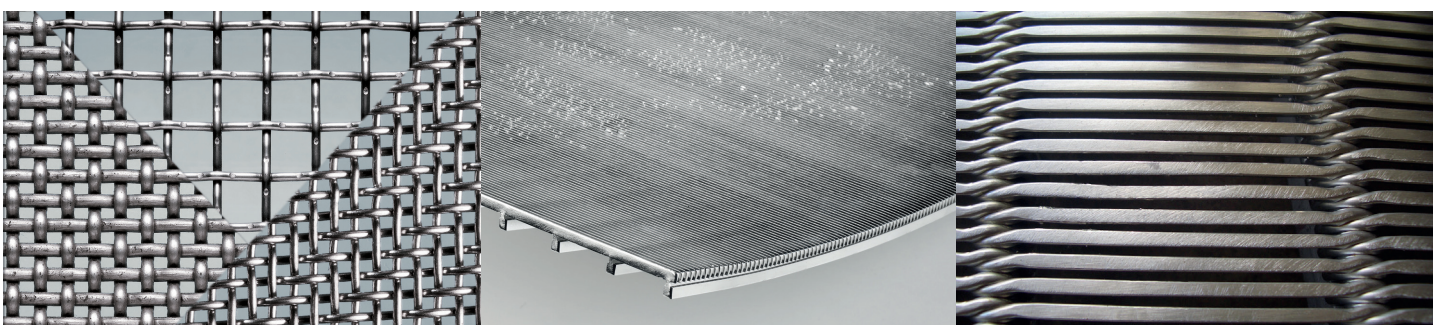
## Slot - Versions

- **Slotted tubes**
  - Radial outer profiles
  - Radial inner profiles
  - Axial inner profiles
- **Plain screens, with/without reinforcement**
  - Mechanical processing (precise manufacturing)
- **Sieve bends, inclined profiles approx. 5-7°**
- **Sieve baskets**
  - Conical (Centrifuges)
  - Cylindrical (press screw separators & centrifuges)



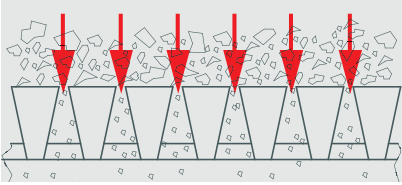
## Materials

- Corrosion, acid resistant steels, as well as duplex steels and others..., with and without reinforcement in welded and spiraled design





## OPTIMA - Functional principle



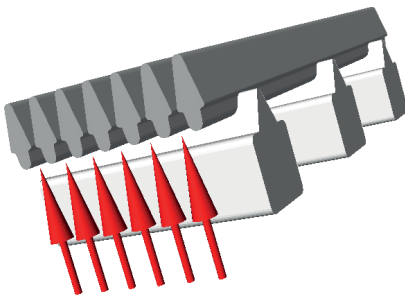
These are your requirements:

- Long operational lifetime
- Filtration/separation performance
- Cut size
- Slot width preciseness
- Stability

To do justice to these aspects there is a wide range of individually developed profile shapes available for your specific application.

The profile shape defines the type and extent of the widening of the slots and influences the slot openings, minimum slot width 30 µm to remain open.

Special profiles and special steel grades for specific applications can be supplied on demand.



Function patented UH profile

## OPTIMA - Range of Profiles

### US - standard for High Precision Filter Tubes

Type	B [mm]	H [mm]
4 US	0,495	1,25
10 US	0,75	1,4
11 US	0,75	1,8
12 US	1,0	2,0
15 US	1,19	2,24
18 US	1,5	2,5
22 US	1,8	3,7
28 US	2,2	4,5
34 US	2,8	5,5
42 US	3,4	6,8

### WO - for production based on spiral welded cylinders

Type	B [mm]	H [mm]
10 WO	1,0	2,0
15 WO	1,5	2,5
20 WO	2,0	3,0
25 WO	2,5	3,5
30 WO	3,0	4,0

### sb - standard for all screen designs; not for cylinders <400 mm Ø

Type	B [mm]	H [mm]
20 sb	1,5	4,0
22 sb	1,8	3,7
28 sb	2,2	4,5
34 sb	2,8	5,0
42 sb	3,4	6,5
50 sb	3,4	7,5

### US - for High Precision Filter Tubes

Type	B [mm]	H [mm]
111 US®	0,75	1,8

### Hs - heavy duty profiles for plain screen panels

Type	B [mm]	H [mm]	H1 [mm]
Hs 6	5,0	7,0	1,6
Hs 8	6,8	9,4	2,2
Hs 10	8,5	11,5	2,7
Hs 12	10,0	14,0	3,3

### UH - for High Precision Filter Tubes

Type	B [mm]	H [mm]	H1 [mm]
105 UH®	0,5	1,4	0,9
11 UH®	0,75	1,8	1,3
12 UH®	1,0	2,0	1,35

### USC / sbb - profiles with higher wear potential: sbb for all types of screens; not for cylinders <400 mm Ø; USC for cylinders <400 mm Ø

Type	B [mm]	H [mm]	H1 [mm]
18 USC	1,5	2,5	1,0
34 sbb	2,2	5,0	3,0
42 sbb	2,8	6,5	4,0
50 sbb	3,4	7,5	5,0
76 sbb	5,0	10,0	7,0

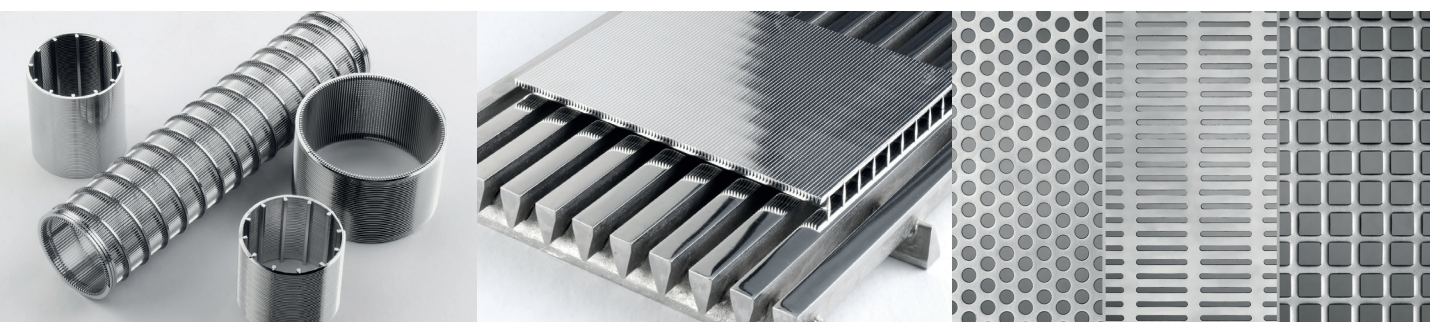
### Q - typical crossbar profiles

Type	B [mm]	H [mm]
Q 20	2,0	2,2
Q 25	2,0	3,0
Q 35	3,0	5,0
Q 55	4,0	8,0

### sb - special profile

Type	B [mm]	H [mm]
55 sb	5,0	5,5

We offer you the solution for **OPTIMA** throughput.



# Delivery Program

## Screen Panels

Screen panels made of polyurethane & steel  
System screen modules  
Wire mesh  
Perforated plates

## OPTIMA

Wedge wire panels  
Plain sieve panels  
Sieve bends  
Slotted screen baskets  
High precision filter tubes  
Industrial filter media

## Wire Mesh Conveyor Belts

Woven & braided wire mesh belts  
Rolled baking oven belts (Z-belts)  
CLEANBELT device for belt cleaning

## LuCoTec Air Spring System

Air spring systems for screening machines &  
other vibrating machines

## MULTOTEC - Process Equipment

Cyclones  
Spirals

The information given and images in this catalogue are non-binding and represent an approximate description only. They are no guaranteed properties. Alternative designs are possible on request. Subject to alteration serving technical progress.

Contact us for **on-site consultation** by our experienced **field engineers**.

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