

HAYER & BOECKER



Information



HAYER
Screen Frames and
Re-Screening Service

The Company



HAYER & BOECKER began production of woven wire cloth at Hohenlimburg in 1887. Today, with production sites in Germany, Great Britain, Belgium, the USA and Canada, we can rightly be considered to be one of the most important wire weaving companies in the world. Our production programme comprises thousands of types of woven wire cloth, of which more than 3,600 are kept in stock. Many patents, registered designs and brand names demonstrate our commitment to product development.

The use of the latest technology and equipment for quality control guarantee the high and constant quality of our woven wire products. Our process-oriented quality management system is certified according to DIN EN ISO 9001:2000.



Our technical woven wire cloth is used for screening and filtration purposes in many industries: chemical, plastic, automobile, aeronautic, aerospace, electronic, industrial screening (mining and quarrying), test sieving, food and many others.

Along with its technical qualities, HAYER woven wire cloth has a high aesthetic value. Hence many architects and designers have, in recent times become interested in using HAYER wire cloth for such applications.



Haver Screen Frames and Re-Screening Service

Screening machines are utilized for mineral processing technology for all kinds of bulk material, and for drainage and cleaning of drilling mud.

We supply complete screen frames for these screening machines:

- Round screens up to 2,650 mm
- Rectangular screens up to 2,650 x 3,100 mm

In addition we offer our Re-Screening Service:

**You send us your used or damaged screen frame –
We re-screen it with a new screening cloth.**

Before re-screening the used or damaged frame, it is carefully cleaned.

The optimum tensioning of screens is essential for their service life and the capacity of the screening machine. The screening equipment developed by us guarantees uniform tension of the screens.



Frames

Industrial wire screens for nearly all kinds of screening machines are kept in stock – There is a choice of screens made from steel, polyester-coated steel and stainless steel in different alloys.

Adhesives

Besides standard adhesives we also use adhesives approved for use with food-stuffs, and heat resisting adhesives (up to 200°C).

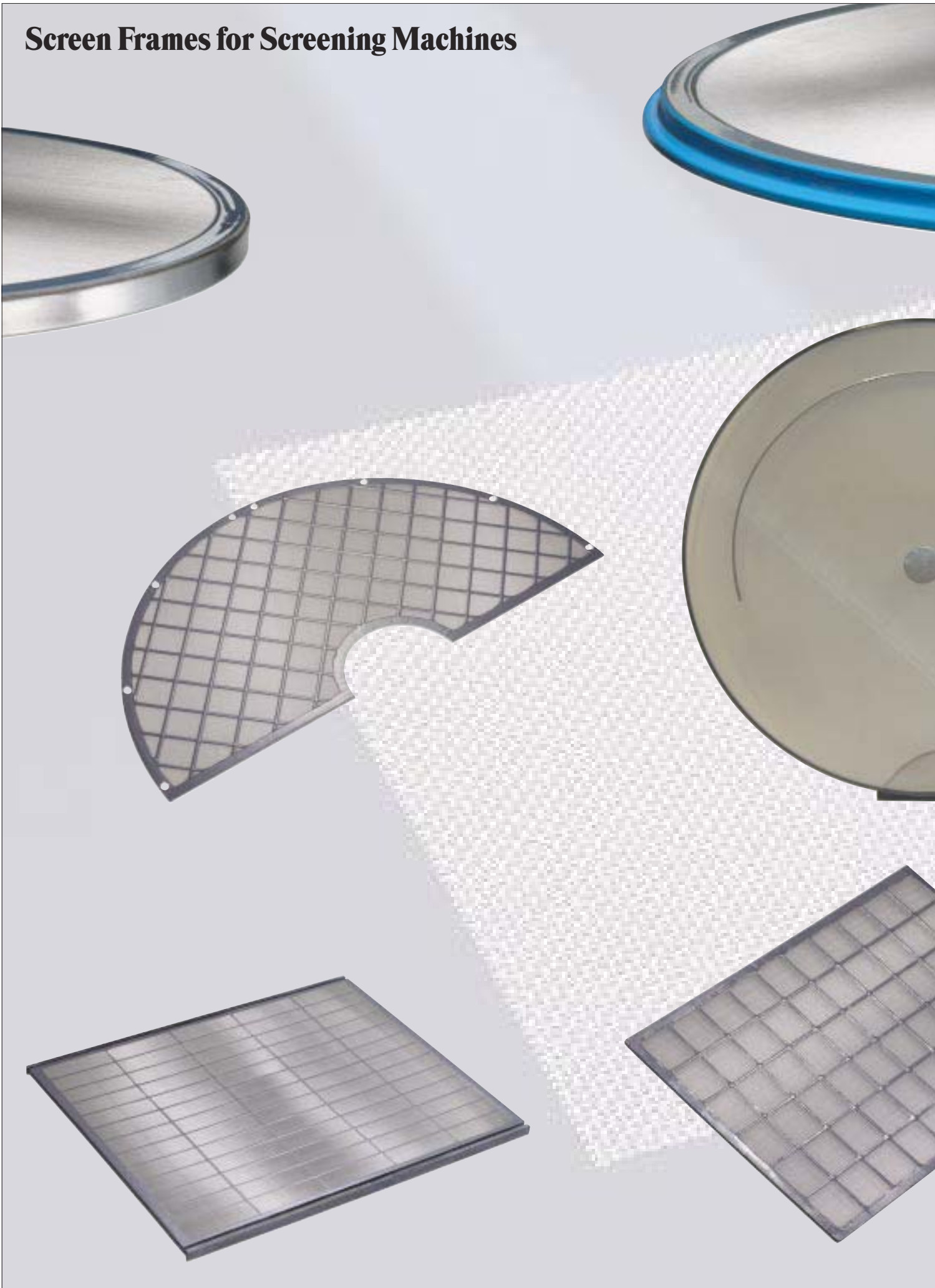
Special Equipment

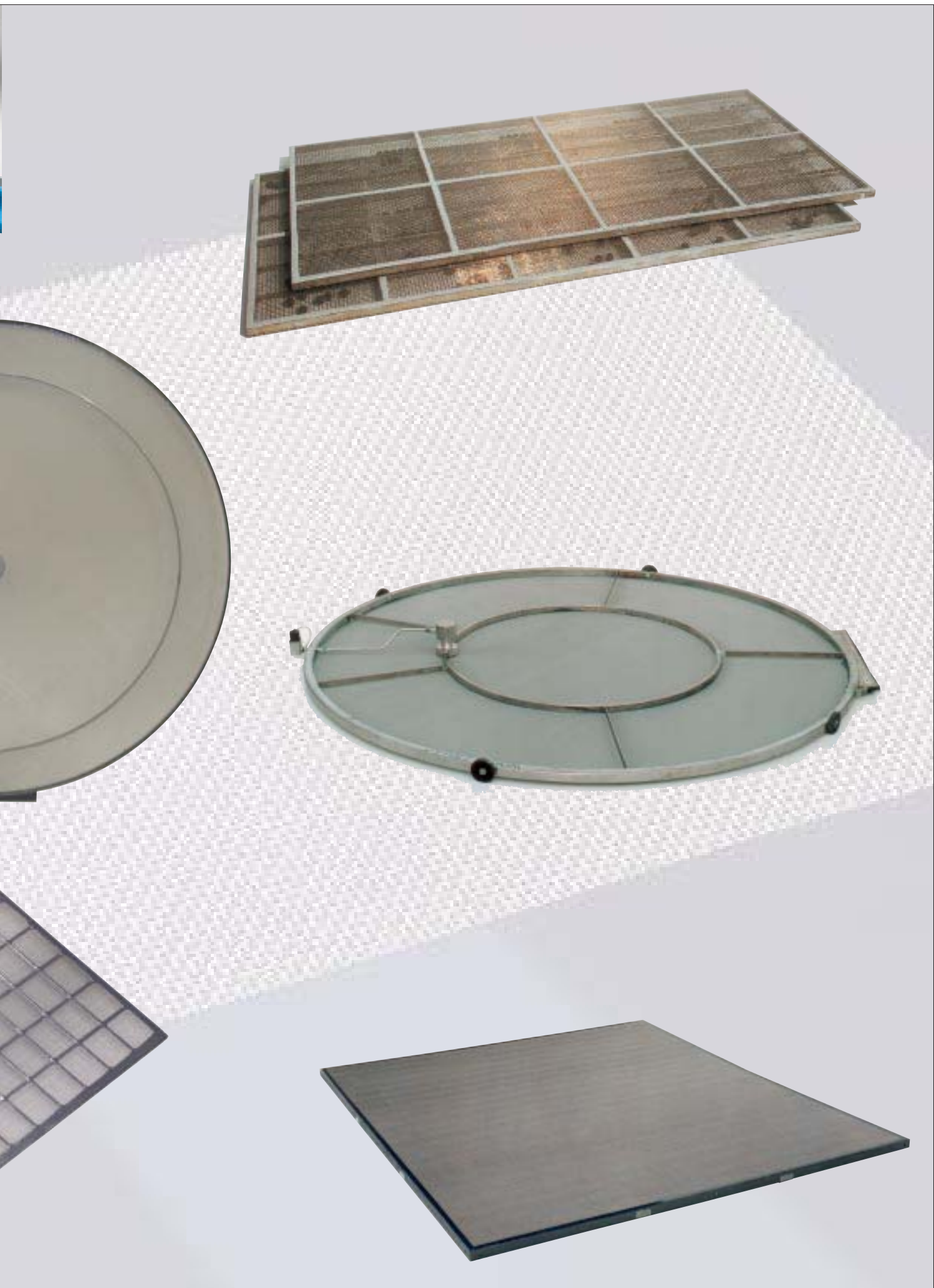
All screens can be tailored to your individual needs:

- center hole for the center axis reinforced with plastic or stainless steel disc
- center baffle plate
- dividing rods made from cellular rubber or profile made from stainless steel
- support screen
- rubber balls for pulsating effect to help prevent blinding, and many other applications.



Screen Frames for Screening Machines





Industrial Wire Screens: Main Specifications

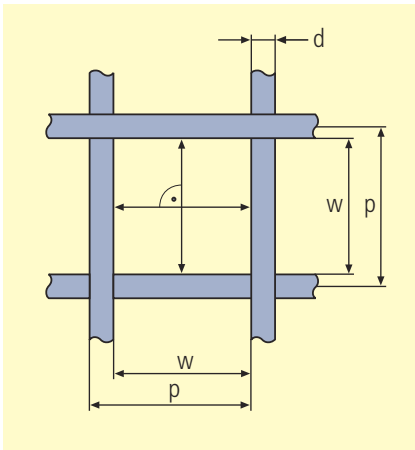
0.025 to 2 mm

Aperture width w	Wire diameter d	Weight G	Open Screening area A ₀	Stain- less Steel	HAVER NIA Steel	Weave type Type
mm	mm	kg/m ²	%			
0.025	0.025	0.17	25	X		A
0.038	0.025	0.14	36	X		A
0.042	0.036	0.22	30	X		A
0.05	0.028	0.13	41	X		A
0.063	0.04	0.2	36	X		A
0.071	0.05	0.27	34	X		A
0.075	0.053	0.26	34	X		A
0.08	0.05	0.25	38	X		A
0.09	0.05	0.23	41	X		A
0.1	0.063	0.31	38	X		A
0.112	0.071	0.35	37	X		A
0.125	0.08	0.4	37	X		A
0.14	0.067	0.28	47	X		A
0.16	0.1	0.49	38	X		A
0.2	0.125	0.61	38	X		A
0.25	0.14	0.64	41	X		A
0.25	0.125	0.6	44		X	A
0.315	0.16	0.7	46	X	X	A
0.315	0.2	1.05	37	X	X	A
0.355	0.125	0.45	55	X	X	A
0.375	0.125	0.45	56	X	X	A
0.4	0.125	0.45	58		X	A
0.4	0.18	0.71	48	X		A
0.4	0.2	0.9	44		X	A
0.425	0.125	0.4	60	X	X	A
0.475	0.125	0.40	63	X	X	A
0.5	0.125	0.35	64	X	X	A
0.5	0.25	1.15	44	X	X	A
0.5	0.315	1.65	38	X	X	A
0.53	0.125	0.35	65		X	A
0.56	0.125	0.35	67		X	A
0.56	0.224	0.79	52	X		A
0.56	0.25	1.05	48		X	A
0.63	0.16	0.45	64	X	X	A

Aperture width w	Wire diameter d	Weight G	Open Screening area A ₀	Stain- less Steel	HAVER NIA Steel	Weave type Type
mm	mm	kg/m ²	%			
0.63	0.25	1	51	X	X	A
0.63	0.28	1.2	48		X	A
0.63	0.315	1.45	44	X	X	A
0.67	0.16	0.45	65	X	X	A
0.71	0.315	1.35	48	X	X	A
0.75	0.2	0.6	62		X	A
0.75	0.315	1.3	50		X	A
0.8	0.2	0.55	64	X	X	A
0.8	0.315	1.25	51	X	X	A
0.8	0.4	1.8	44	X	X	A
0.85	0.2	0.55	66		X	A
0.9	0.315	1.15	55	X	X	A
0.9	0.4	1.7	48		X	A
0.95	0.2	0.5	68		X	A
1	0.315	1.05	58	X	X	A
1	0.5	2.25	44	X	X	A
1	0.63	3.3	38	X	X	A
1.12	0.25	0.65	67	X	X	A
1.18	0.5	2.05	49		X	A
1.25	0.315	0.9	64		X	A
1.25	0.5	1.95	51		X	A
1.25	0.63	2.9	44	X	X	A
1.25	0.8	4.25	37	X	X	A
1.32	0.63	2.75	46		X	A
1.4	0.315	0.8	67	X	X	A
1.4	0.63	2.65	48		X	A
1.5	0.315	0.75	68		X	A
1.5	0.63	2.55	50	X	X	A
1.6	0.315	0.7	70		X	A
1.6	0.63	2.45	51	X	X	A
1.6	1	5.2	38	X	X	A
1.8	0.315	0.65	72	X	X	A
1.8	0.8	3.35	48	X	X	A
2	0.63	2.05	58	X	X	A

Other specifications upon request

Abbreviations and Definitions for wire Screen Sections (ISO 14315)



- w Aperture width**
Distance between two adjacent warp or weft wires, measured in the projected plane at mid positions.
- d Wire diameter**
Diameter of the wire in the wire screen.
- p Pitch**
Distance between the middle points of two adjacent wires. Nominally the sum of the aperture width w and the wire diameter d ($p = w + d$).
- k Warp**
All wires running lengthwise in the screen as manufactured.
- s Weft**
All wires running crosswise in the screen as manufactured.
- A_o Open screening area**
Percentage of the surface of all the apertures in the total screening surface. Ratio of the square of the nominal aperture width w and the square of the nominal pitch $p = (w + d)$, rounded to a full percentage value:
 $A_o = 100 \cdot (w : p)^2$
- ρA Mass per unit area**
The quantity calculated using the following equation :

$$\rho A = \frac{d^2 \cdot \rho \cdot f}{618,1 (w + d)}$$

d = wire diameter in mm

w = aperture width in mm

f = type conversion factor (see ISO 4783-1 : 1989, Table 1)

ρ = material density in kg per m³ (see ISO 4783-1 : 1989, Table 2)

The equation gives the calculated mass per unit area in kg/m², although the actual value can be up to 3% lower.

Standards for Industrial Wire Screens

ISO 4783: 1996

Industrial wire screens and woven wire cloth – guide to the choice of aperture size and wire diameter combinations

Part 1: Generalities

Part 2: Preferred combinations for woven wire cloth

Part 3: Preferred combinations for precrimped or pressurewelded wire screens

ISO 9044: 2001

Industrial woven wire cloth – Technical requirements and testing

ISO 14315: 1998

Industrial wire screens – Technical requirements and testing

Industrial Wire Screens and Particle Size Analysis



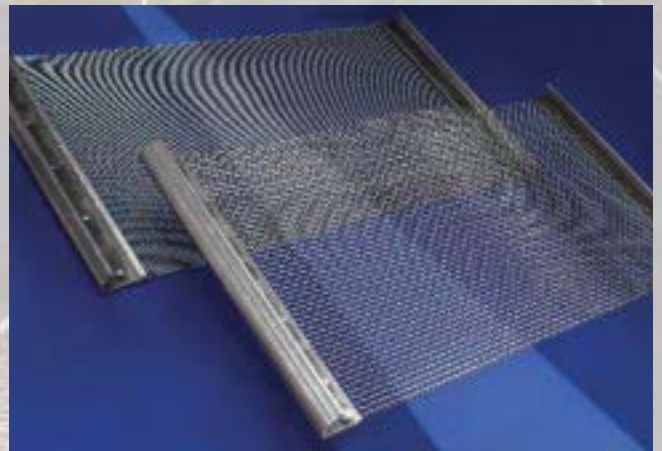
Industrial Screens

We manufacture Industrial Wire Screens for all types of Screening Machines.

The great variety of available Screen Types often necessitates "tailor-made" screen sections, for example with: Hook strips, notches, overlaps, reinforced sides, integrated polyurethane strips and many other special requirements, all of which we are able to supply.

We weave using wires as thick as 16 mm (0.63") diameter down to those of only 0.016 mm (16 microns) diameter from all weavable materials, to provide woven wire cloth and screens with aperture widths from 125 mm to 0,025 mm (25 microns).

Depending on the product being sieved, we recommend our highly wear- and tear resistant NIA Spring Steel as well as Stainless Steel in different austenitic alloys (also wear resistant or magnetic).



Particle Size Analysis

Production processes in many industrial fields are subject to continuous control and monitoring in order to achieve or to maintain the required product quality. For example, in the pharmaceutical, chemical, food, basic, automobile, iron and steel industry and many others.

HAYER & BOECKER has developed a large range of test sieve shakers, test sieves and auxiliary parts.

HAYER & BOECKER

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