HAVER & BOECKER



# INDUSTRIAL WIRE SCREENS

EFFICIENT. PRECISE. RELIABLE.

FASCINATING ENGINEERING. AS ONE.



HAVER & BOECKER is a family-owned company built on the two strong pillars – Wire Weaving Division and Machinery Division. Since 1887, we have been developing and producing solutions that make processes safer, more efficient, and more sustainable: wire mesh products for industry, technology, architecture and design, as well as machines, technologies and systems for storing, packaging, and shipping bulk materials and liquids. With more than 50 subsidiaries and 150 representatives, we are globally connected and locally rooted in Oelde, Germany. Together with our customers, we rethink processes – and shape the future.

FASCINATING ENGINEERING. **AS ONE.**



# CONTENTS


Industrial wire screens 5

A partner for all screening processes 6

Alloys for woven wire screens 7

Compliance in food processes 9

Classic mesh – trusted performance 10

Main specifications of industrial wire screens 12

Hooked on quality 14

Pre-tensioned frames 16

Exciting mesh with ultersonics 18

Grommet screens for horizontal screening machines 20

HAVER granulating screens 21

HAVER screening machines HAVER DMS and HAVER UMD 22

Industrial screening applications 24

Environmental standards and certifications 25

Screening, processing, analyzing 26

# INDUSTRIAL WIRE SCREENS

## EFFICIENCY THAT DRIVES – RELIABILITY THAT CONNECTS

**Precision and reliability are decisive factors for cost-effectiveness and quality in industrial screening. Industrial wire screens are far more than technical components – they are key technologies that enable smooth, efficient processes across a wide range of industries. Whether in raw material extraction, chemical and pharmaceutical industries, or food production and processing: wherever materials are separated, classified, or refined, our industrial wire screens made of spring steel and stainless steel wire mesh make a significant contribution to efficiency, process reliability, and product quality.**

### WHAT DRIVES US

A fascination with technology, a passion for precision, and the determination to achieve more together – as a team, as partners, as a strong unit.

### YOUR PROCESS – OUR PASSION

Our screen cloth and screen sections set standards worldwide. Through close collaboration with machine manufacturers, plant operators, and engineers, we understand our customers' challenges in detail and develop products that fit perfectly and deliver long-term performance. Whether as fully fabricated screen sections, as rolls, or cut-to-size material: Our industrial wire screens are as versatile as your requirements – and as reliable as our promise.

### QUALITY YOU CAN RELY ON

With HAVER & BOECKER as your partner, you benefit from consistently high quality – from raw materials to the finished product. This is ensured through our ongoing involvement in all relevant standards committees as well as our quality management system certified in accordance with DIN ISO 9001:2015.

# A PARTNER FOR ALL SCREENING PROCESSES

## TECHNOLOGY THAT CONNECTS – SOLUTIONS THAT INSPIRE











**Screening processes are as individual as the materials that pass through the mesh. To ensure they not only function reliably but operate in perfect harmony, material, mesh design, weave type, and screening machine must interact with precision. This is exactly where HAVER & BOECKER comes in – with our expertise and a comprehensive portfolio that makes your processes safer, more efficient, and more economical.**

### Variety that convinces

Whether classic screen sections or pre-tensioned screen frames with ultrasonic support – our solutions are as individual as your specific requirements. High-quality materials and meticulous workmanship ensure maximum stability and durability of your screen sections and optimal performance of your screening machine.

### HAVER industrial wire screens: modern classics

Our product range includes screen media for all types of screening machines – with apertures ranging from 0.025 mm to over 100 mm. In addition to the proven HAVER NIA® spring steel, various stainless steels are used, combining maximum functionality with long service life.

Our industrial wire screens are supplied precisely tailored to your needs – supplied as rolls, cut-to-size pieces, or fully fabricated, with various edge finishes and hook types, pre-tensioned on frames and manufactured in compliance with ISO 14 315 and ISO 9044. For food applications, our screens comply with all relevant EU regulations.

### Get more performance out of existing screening systems

With the right wire mesh solutions, vibrations can be transferred directly into the screening material, accelerating stratification and increasing capacity. For fine separations, this can be supported by ARTECH ultrasonic technology, while FLEX-MAT® high-vibration wire screens improve the performance in coarser applications. HAVER & BOECKER supports customers in selecting and implementing the right solution.



Whitepaper on materials

# ALLOYS FOR WOVEN WIRE SCREENS

## MATERIALS THAT MAKE PROCESSES SAFER

**Every screening process comes with its specific requirements. That's why reliable screening begins with selecting the right alloy. The choice of material has a decisive influence on the stability of your wire screen, the throughput you achieve and the long-term reliability of your process.**

Whether your product is abrasive, corrosive or food- grade, our broad range of wire types allows us to work with you to identify the ideal solution for your process. It's worth taking a closer look at the material properties that significantly influence how a wire screen performs. These criteria stem from the practical questions that arise in every screening process, and that our experts address every day.

- Is your product abrasive? If so, tensile strength and surface hardness are important factors.
- Does your wire mesh break before it wears out? This is usually not caused by the choice of the wire mesh alloy, but by the installation of the screen section.
- Is your material corrosive? If so, selecting the right type of stainless steel is important.
- Do you process foodstuff? If so, you should opt for material AISI 318LN.
- Do you need particularly clean wire mesh? If so, all stainless steel materials are suitable for you.
- Do you have sticky material? If so, the surface of the wire should be as smooth as possible.

| Properties | Materials | | | | |
|---|---|---|---|---|---|
| | AISI 304 | AISI 316 | AISI 430 | AISI 318LN | Spring steel |
| Tensile strength | o | o | - | + | ++ |
| Surface hardness | o | o | - | + | ++ |
| Fatigue properties | ++ | ++ | - | + | - |
| Corrosion resistance | ++ | ++ | + | ++ | - |
| Magnetizability | - | - | ++ | + | ++ |
| Wire surface | smooth | smooth | rough | very smooth | rough |
| Cleaning | ✓ | ✓ | ✓ | ✓ | not possible |

Main materials for industrial screens and their properties. Special stainless steel alloys for temperature- and acid-resistant materials available on request.



### Legal framework and recommendations

Our products comply with the requirements of the following regulations and guidelines (as of March 2026):

- **EU REGULATION (EC) NO. 1935/2004:**
  Materials intended to come into contact with food must not transfer constituents to food in quantities that could endanger human health.
- **EU REGULATION NO. 10/2011:**
  Specific requirements for plastics intended for food contact.
- **EU REGULATION 2024/3190:**
  New requirements regarding the absence of bisphenol A in plastics and silicones.
- **BFR RECOMMENDATION NO. XV:**
  National guideline for the assessment of materials.
- **GERMAN FOOD AND FEED CODE (LFGB):**
  German law governing food safety.



# COMPLIANCE IN EVERY FOOD PROCESS

## SAFE MATERIALS FOR VALIDATED PROCESSES

**The demands placed on materials and components in the food industry continue to rise. In processes such as industrial screening, where products come into direct contact with technical surfaces, strict compliance with statutory regulations is essential. HAVER & BOECKER meets this responsibility with high-quality stainless steel wire mesh and precisely engineered system solutions that fulfil the stringent requirements of both EU and national authorities. In doing so, we safeguard your processess with reliability, transparent documentation and a clear focus on future-proof performance.**

### Preferred material for your wire mesh: Duplex AISI 318LN

The stainless steel grades AISI 304 and AISI 316 do comply with the regulations mentioned above as well as with FDA requirements (CFR 21 Parts 182 and 189). However, by their nature, these materials are not magnetizable. This is a disadvantage in processes where magnetic separators are used as a safety stage to remove metallic particles in the event of wire breakage – particularly in food production.

Ferritic stainless steels such as AISI 430 and austenitic-ferritic duplex stainless steels such as AISI 318LN, by contrast, are magnetizable. Thanks to its excellent wear resistance and above-average corrosion resistance, AISI 318LN is the preferred material for demanding applications in food production.

Spring steel wire mesh, although highly magnetizable, is fundamentally unsuitable for food contact.

### Validated complete solutions: documented conformity

HAVER & BOECKER goes beyond individual component documentation by delivering fully validated screen sections ready for demanding food applications – including order-specific declarations of conformity that document all materials used. This significantly simplifies audit documentation.

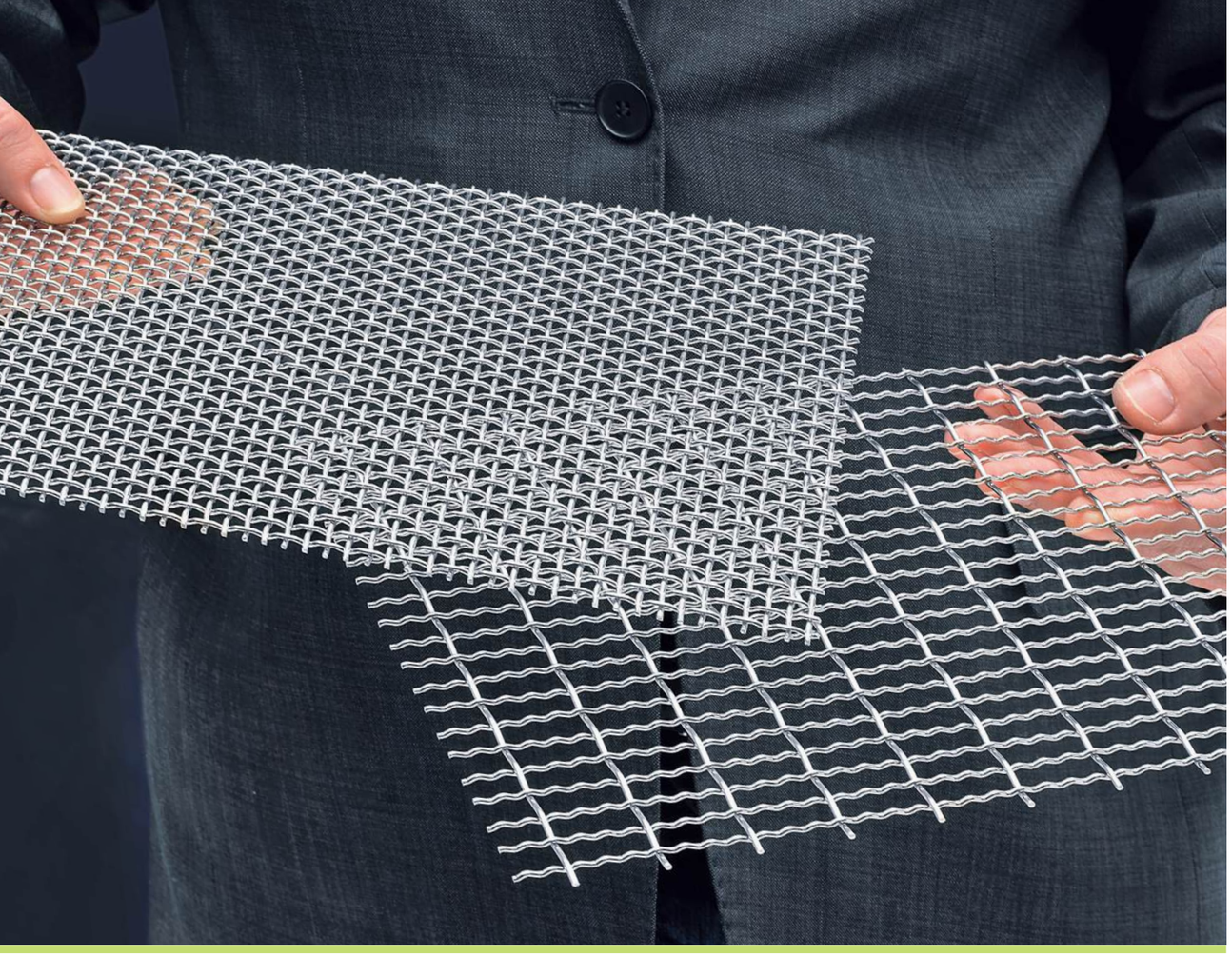
### More than wire: plastics and adhesives

In addition to the wire mesh, other materials are used in screen sections, all of which are also subject to strict regulations.

- **SILICONE AND RUBBER** are increasingly viewed critically by many food producers, as they may contain bisphenol A – a substance whose use has been banned under EU Regulation 2024/3190.
- **POLYURETHANE** therefore represents a compelling alternative: the optional wear protection strips and lip seals made of polyurethane used by HAVER & BOECKER not only comply with the requirements of Regulation 10/2011, but are also completely bisphenol-free and significantly more stable than silicone.
- **ADHESIVES** used in the manufacture of screen sections are also subject to strict requirements. HAVER & BOECKER uses exclusively tested materials that comply with the relevant food law regulations.



Polyurethane Side Seal



# CLASSIC MESH – TRUSTED PERFORMANCE

## SQUARE AND RECTANGULAR MESH FOR DEMANDING APPLICATIONS

**HAVER & BOECKER maintains a comprehensive stock of standard mesh in accordance with ISO 14 315 and ISO 9044. These products are the result of decades of experience, technical precision, and uncompromising quality – and provide the right solution for virtually any challenge.**

### Square mesh – robust, efficient, proven

In the processing of coarser bulk materials, the weave pattern plays a decisive role in screening performance. With their rough, three-dimensional surface, our DOUBLE CRIMP SCREEN and SINGLE INTERMEDIATE CRIMP SCREEN create intensive agitation of the material being screened. Fine particles reach the screening surface more quickly, the entire screening process is accelerated, and efficiency increases. For particularly abrasive materials, we recommend flat top screens with a smooth surface on one side. They ensure even wear and a longer service life – ideal for use on horizontal vibrating screens, where the screened material does not flow rapidly over the screen section.

### Rectangular mesh – higher throughput, less blinding

For round or cubical particles, rectangular or elongated mesh is the ideal choice. Their large open area enables high throughput rates with a reduced tendency to clog. Depending on the orientation of the aperture – parallel or transverse to the material flow – the focus can be set precisely: maximum throughput or more precise separation. The greater the ratio of length to width, the more flexible the wire mesh and the better the self-cleaning effect.

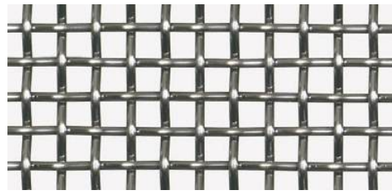
### TON-CAP – for maximum service life with abrasive materials

TON-CAP (Tonnage Capacity) is a rectangular mesh with a very slender aperture shape (ratio 1:6 to 1:15). The use of larger wire diameters can increase the mesh surface weight by more than 100% compared to square or conventional rectangular mesh, significantly extending service life.

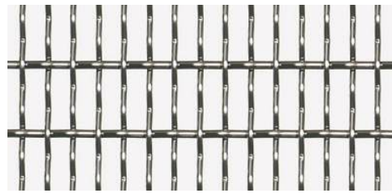
### EGLA-MAX – for maximum open area and long service life

With aperture ratios of up to 1:25, EGLA-MAX offers an exceptionally large open area. This increases throughput, while the smooth surface on one side ensures uniform wear – ideal for demanding applications with high material volumes.

**Type A**
DOUBLE CRIMP SCREEN



**Type B**
SINGLE INTERMEDIATE CRIMP SCREEN
with intermediate crimps in one direction



**Type C**
DOUBLE INTERMEDIATE CRIMP SCREEN
with intermediate crimps



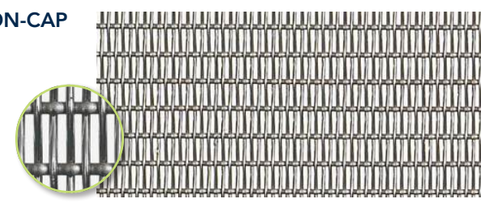
**Type D**
LOCK CRIMP SCREEN
pre-crimped on both sides



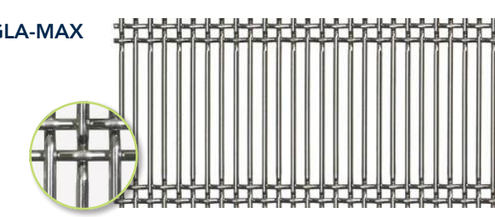
**Type E**
**Form E**
FLAT TOP SCREEN
with one flat side



**TON-CAP**



**EGLA-MAX**







# MAIN SPECIFICATIONS

## SQUARE APERTURES

| Aperture width | Wire diameter | Weight | Open screening area |
|---|---|---|---|
| w | d | G | Ao |
| mm | mm | kg/m² | % |
| 0.025 | 0.025 | 0.16 | 25 |
| 0.038 | 0.025 | 0.13 | 36 |
| 0.050 | 0.032 | 0.16 | 37 |
| 0.063 | 0.040 | 0.20 | 37 |
| 0.071 | 0.050 | 0.26 | 34 |
| 0.075 | 0.050 | 0.28 | 36 |
| 0.080 | 0.050 | 0.24 | 38 |
| 0.090 | 0.050 | 0.23 | 41 |
| 0.100 | 0.063 | 0.31 | 38 |
| 0.125 | 0.080 | 0.40 | 37 |
| 0.140 | 0.067 | 0.28 | 46 |
| 0.140 | 0.112 | 0.63 | 31 |
| 0.160 | 0.100 | 0.49 | 38 |
| 0.200 | 0.090 | 0.35 | 48 |
| 0.200 | 0.140 | 0.73 | 35 |
| 0.224 | 0.125 | 0.57 | 41 |
| 0.250 | 0.160 | 0.79 | 37 |
| 0.315 | 0.160 | 0.68 | 44 |
| 0.315 | 0.200 | 0.99 | 37 |
| 0.355 | 0.180 | 0.77 | 44 |
| 0.400 | 0.180 | 0.71 | 48 |
| 0.400 | 0.200 | 0.85 | 44 |
| 0.450 | 0.200 | 0.78 | 48 |
| 0.500 | 0.125 | 0.32 | 64 |
| 0.500 | 0.250 | 1.06 | 44 |
| 0.500 | 0.315 | 1.55 | 38 |
| 0.560 | 0.224 | 0.81 | 51 |
| 0.630 | 0.160 | 0.41 | 64 |
| 0.630 | 0.250 | 0.90 | 51 |
| 0.630 | 0.315 | 1.33 | 44 |
| 0.710 | 0.315 | 1.23 | 48 |
| 0.800 | 0.315 | 1.13 | 52 |
| 0.800 | 0.400 | 1.69 | 44 |
| 0.900 | 0.315 | 1.04 | 55 |
| 0.900 | 0.400 | 1.56 | 48 |
| 1.000 | 0.315 | 0.96 | 58 |
| 1.000 | 0.500 | 2.12 | 44 |
| 1.000 | 0.630 | 3.19 | 38 |
| 1.180 | 0.500 | 1.89 | 49 |
| 1.250 | 0.400 | 1.23 | 57 |

## SQUARE APERTURES

| Aperture width | Wire diameter | Weight | Open screening area |
|---|---|---|---|
| w | d | G | Ao |
| mm | mm | kg/m² | % |
| 1.250 | 0.630 | 2.77 | 44 |
| 1.250 | 0.800 | 4.09 | 37 |
| 1.320 | 0.630 | 2.67 | 46 |
| 1.400 | 0.315 | 0.73 | 67 |
| 1.400 | 0.450 | 1.39 | 57 |
| 1.400 | 0.630 | 2.56 | 48 |
| 1.500 | 0.630 | 2.44 | 50 |
| 1.600 | 0.315 | 0.66 | 70 |
| 1.600 | 0.500 | 1.51 | 58 |
| 1.600 | 0.800 | 3.39 | 44 |
| 1.600 | 1.000 | 5.04 | 38 |
| 1.800 | 0.315 | 0.60 | 72 |
| 1.800 | 0.560 | 1.69 | 58 |
| 1.800 | 0.800 | 3.22 | 48 |
| 2.000 | 0.560 | 1.56 | 61 |
| 2.000 | 1.000 | 4.37 | 44 |
| 2.000 | 1.400 | 7.78 | 35 |
| 2.240 | 0.630 | 1.81 | 61 |
| 2.240 | 0.900 | 3.38 | 51 |
| 2.500 | 0.710 | 2.06 | 61 |
| 2.500 | 1.250 | 5.63 | 44 |
| 2.500 | 1.600 | 8.43 | 37 |
| 2.800 | 0.710 | 1.91 | 64 |
| 2.800 | 1.400 | 6.30 | 44 |
| 2.800 | 1.800 | 9.51 | 37 |
| 3.150 | 0.800 | 2.12 | 64 |
| 3.150 | 1.400 | 5.82 | 48 |
| 3.150 | 1.800 | 8.84 | 41 |
| 3.550 | 0.900 | 2.42 | 64 |
| 3.550 | 1.400 | 5.35 | 51 |
| 3.550 | 2.000 | 9.73 | 41 |
| 4.000 | 1.000 | 2.66 | 64 |
| 4.000 | 1.250 | 4.02 | 58 |
| 4.000 | 1.600 | 6.17 | 51 |
| 4.000 | 2.000 | 9.00 | 44 |
| 4.500 | 1.250 | 3.67 | 61 |
| 5.000 | 1.250 | 3.38 | 64 |
| 5.000 | 1.400 | 4.13 | 61 |
| 5.000 | 2.000 | 7.71 | 51 |
| 5.600 | 1.250 | 3.08 | 67 |

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## SQUARE APERTURES

| Aperture width | Wire diameter | Weight | Open screening area |
|---|---|---|---|
| w | d | G | Ao |
| mm | mm | kg/m² | % |
| 6.30 | 1.25 | 2.80 | 70 |
| 6.30 | 1.60 | 4.37 | 64 |
| 6.30 | 2.00 | 6.51 | 58 |
| 6.30 | 3.15 | 14.18 | 44 |
| 7.10 | 1.40 | 3.11 | 70 |
| 7.10 | 2.00 | 5.93 | 61 |
| 8.00 | 2.50 | 8.04 | 58 |
| 8.00 | 3.15 | 12.01 | 52 |
| 8.50 | 1.60 | 3.42 | 71 |
| 9.00 | 2.50 | 7.34 | 61 |
| 9.00 | 3.15 | 11.03 | 55 |
| 10.00 | 1.80 | 3.71 | 72 |
| 10.00 | 2.50 | 6.75 | 64 |
| 10.00 | 3.15 | 10.19 | 58 |
| 10.00 | 4.00 | 15.43 | 51 |
| 12.50 | 2.50 | 5.63 | 69 |
| 12.50 | 3.15 | 8.56 | 64 |
| 12.50 | 4.00 | 13.09 | 57 |
| 13.20 | 3.15 | 8.19 | 65 |
| 14.00 | 2.50 | 5.11 | 72 |
| 14.00 | 3.15 | 7.81 | 67 |
| 15.00 | 4.00 | 11.37 | 62 |
| 16.00 | 4.00 | 10.80 | 64 |
| 17.00 | 2.50 | 4.33 | 76 |
| 18.00 | 4.00 | 9.82 | 67 |
| 20.00 | 3.15 | 5.79 | 75 |
| 20.00 | 4.00 | 9.00 | 69 |
| 20.00 | 6.00 | 18.69 | 59 |
| 25.00 | 4.00 | 7.45 | 74 |
| 25.00 | 6.00 | 15.68 | 65 |
| 28.00 | 6.00 | 14.29 | 68 |
| 31.50 | 6.00 | 12.96 | 71 |
| 31.50 | 8.00 | 21.87 | 64 |
| 35.50 | 8.00 | 19.86 | 67 |
| 40.00 | 8.00 | 18.00 | 69 |
| 45.00 | 8.00 | 16.30 | 72 |
| 50.00 | 8.00 | 14.90 | 74 |

## SLOTTED APERTURES

| Aperture width | Wire diameter | Weight | Open screening area |
|---|---|---|---|
| w | d | G | Ao |
| mm | mm | kg/m² | % |
| 0.10 x 0.30 | 0.08 / 0.08 | 0.33 | 44 |
| 0.125 x 0.45 | 0.2 / 0.20 | 1.17 | 27 |
| 0.15 x 0.45 | 0.125 / 0.14 | 0.57 | 42 |
| 0.16 x 0.48 | 0.16 / 0.14 | 0.71 | 39 |
| 0.18 x 0.67 | 0.18 / 0.18 | 0.81 | 39 |
| 0.20 x 0.60 | 0.125 / 0.112 | 0.42 | 52 |
| 0.20 x 0.60 | 0.20 / 0.18 | 0.90 | 39 |
| 0.25 x 0.75 | 0.16 / 0.14 | 0.54 | 51 |
| 0.25 x 0.75 | 0.224 / 0.20 | 0.94 | 42 |
| 0.30 x 0.90 | 0.28 / 0.25 | 1.20 | 41 |
| 0.315 x 0.95 | 0.20 / 0.18 | 0.69 | 51 |
| 0.40 x 1.18 | 0.25 / 0.224 | 0.84 | 52 |
| 0.45 x 1.40 | 0.315 / 0.28 | 1.15 | 49 |
| 0.50 x 1.50 | 0.25 / 0.224 | 0.71 | 58 |
| 0.50 x 1.50 | 0.315 / 0.28 | 1.08 | 52 |
| 0.50 x 1.50 | 0.40 / 0.355 | 1.60 | 45 |
| 0.56 x 1.70 | 0.355 / 0.315 | 1.20 | 52 |
| 0.63 x 1.90 | 0.28 / 0.25 | 0.74 | 61 |
| 0.63 x 1.90 | 0.50 / 0.45 | 1.95 | 45 |
| 0.71 x 2.12 | 0.315 / 0.28 | 0.83 | 61 |
| 0.71 x 2.12 | 0.45 / 0.40 | 1.51 | 52 |
| 0.80 x 2.36 | 0.315 / 0.28 | 0.76 | 64 |
| 0.80 x 2.36 | 0.5 / 0.45 | 1.68 | 52 |
| 0.90 x 2.65 | 0.40 / 0.315 | 1.01 | 62 |
| 1.00 x 3.00 | 0.63 / 0.80 | 2.70 | 48 |
| 1.25 x 3.75 | 0.63 / 0.80 | 2.35 | 55 |
| 1.40 x 4.25 | 0.71 / 1.00 | 2.85 | 54 |
| 1.60 x 4.75 | 0.80 / 1.00 | 3.00 | 55 |
| 1.80 x 5.30 | 0.90 / 1.25 | 3.60 | 54 |
| 2.00 x 6.00 | 0.90 / 1.40 | 3.65 | 56 |
| 2.50 x 7.50 | 1.00 / 1.40 | 3.45 | 60 |
| 2.80 x 8.50 | 1.00 / 1.40 | 3.15 | 63 |
| 3.15 x 9.50 | 1.00 / 1.40 | 2.90 | 66 |
| 4.00 x 11.80 | 1.25 / 1.60 | 3.30 | 67 |
| 4.00 x 11.80 | 1.60 / 2.00 | 4.85 | 61 |
| 4.50 x 13.20 | 1.25 / 1.60 | 3.05 | 70 |
| 5.00 x 15.00 | 1.40 / 2.00 | 3.70 | 69 |

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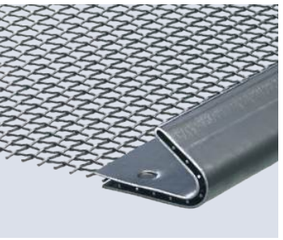
Other specifications available on request.
Spring Steel specifications are available from aperture width 0.400 mm and larger.
Depending on material and type of weave, the actual weights may differ from the above.





# HOOKED ON QUALITY

## TAILORED TENSIONING SYSTEMS



**Standard hook strip**

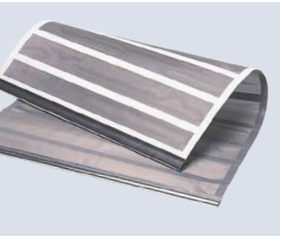
**For your screen sections to perform at their best, they must not only be manufactured with precision but also be perfectly tensioned – and remain so over time. HAVER & BOECKER offers a wide range of designs that can be precisely matched to your screening machines and specific requirements. Whether a standard solution or a custom design: we make sure everything fits.**



**Double fold hook strip for end tensioning**
Available with silicone, PUR, or rubber lip seals

### Strong hook strips for strong processes

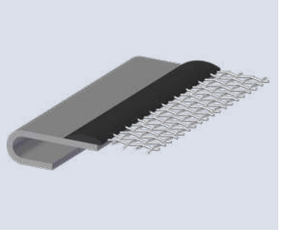
Our hook strips are available in numerous variants, for side and end tensioning, from standard hook strips to custom designs, and, if required, with a variety of side edge configurations.



**Multilayer screen section reinforced with PUR-strips**

### HAVER MONOSTRETCH and MULTISTRETCH – the solution for demanding applications

Fine-mesh screen sections with hook strips place particularly high demands on uniform tension and flatness. HAVER MONOSTRETCH and MULTISTRETCH offer a proven special solution: single or multi-layer screen sections that enable optimal tension across the entire width and length. Thanks to the flexible polyurethane strip, the mesh tension adjusts automatically – ensuring maximum process reliability. Also suitable for the food industry – for product temperatures up to 70 °C.



**LM-hook strip for food industry**

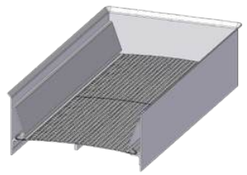
### Food-grade design – hygienic and safe

For applications up to 120 °C, HAVER & BOECKER offer a special food-grade hook strip: the screen section is completely sealed using a food-safe adhesive that complies with EU Regulation 1935/2004 as well as Regulation 10/2011. This allows the wire screen section to be thoroughly cleaned at any time, reliably preventing the formation of fungi and bacteria.

All special hook strips are available for both side and end-tensioned screening machines.

## SECURE ATTACHMENT – SIMPLE AND EFFICIENT

### Side tensioning








Standard hook strip type 21

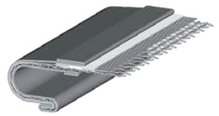


Double fold hook strip type 30

**Special executions**

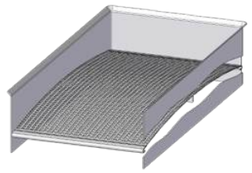


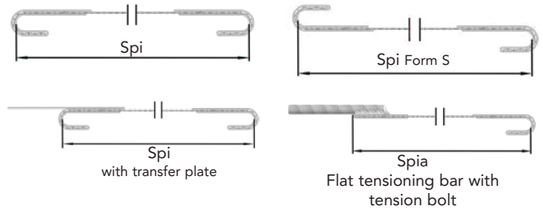
Flat tensioning bar type 26 A



Multistretch

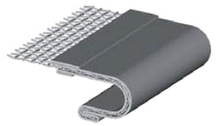
### End tensioning








Standard hook strip type 21



Double fold hook strip type 30

**Special executions**



Flat tensioning bar type 26 A



LM-hook strip for food industry

**Measurements and tolerances (DIN ISO 14315)**

**Side tensioning**
Spa – Outside tensioning dimension (Measurements between outsides of the hook strips)

**End tensioning**
Spi – Inside tensioning dimension (Measurement between insides of the hook strips)

Spia – Inside/outside tensioning dimension (Measurement from inside the hook strip to outside of flat bent tensioning bar)

**Side and end tensioning**
Fl – Hook strip length (Overall length of hook strips)

### Optional equipment – for even greater functionality

Our screen sections can be precisely tailored to your requirements. Optional features include:

- PUR-strips for extra wear protection
- stapled or bonded rubber/silicone lips
- PUR lip seals
- transfer plates
- flat tension profile
- tension bolts
- wire cloth folded by 180°
- wire cloth cleaned by ultrasonic process

# SCREENING WITH TENSION

### Pretensioned frames & re-screening service – quality that lasts

Fine wire mesh demands the highest level of precision, especially during tensioning. Even minor installation errors can significantly reduce the service life and performance of wire mesh. That's why pretensioned screen frames are used in many types of screening machines.

### Pretensioned screen sections – ready for immediate use

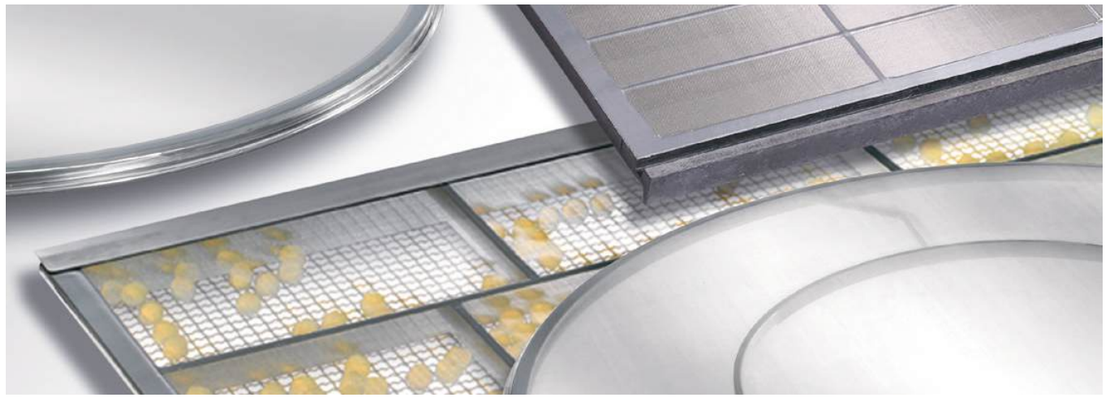
To manufacture pretensioned screen sections, the wire mesh is uniformly pretensioned and bonded to the screen frame using specially developed tensioning devices. The result: permanently stable tension that ensures maximum screening performance and long service life. All screen sections are manufactured in accordance with applicable standards and monitored by our quality management system certified to DIN EN ISO 9001:2015.

### Screen frames – custom-built, perfectly matched

Whether stainless steel, carbon steel, aluminium or plastic, we manufacture screen frames precisely tailored to your application, your machine, and your product. The adhesive is also selected specifically for the task: food-grade in compliance with EU Regulations 1935/2004 and 10/2011 and FDA-approved, heat- or acid-resistant, or optimized for use with ultrasonic excitation.

From standard frames to complex designs, we manufacture pretensioned screen frames in any shape and size:

- circular screen frames up to Ø 2,900 mm
- rectangular frames up to 2,650 × 3,100 mm



### Special features – for maximum functionality

Our screen frames can be equipped and customized with numerous options:

- center hole for the central axis, reinforced with GRP or stainless steel disc
- center plate
- deflector / guide spiral made of rubber or stainless steel
- support screen and multi-layer versions
- spherical and rhomboid bouncing balls

### RE-SCREENING SERVICE – SUSTAINABLE AND COST-EFFECTIVE

**Your screen frame is still in good condition, but the mesh is worn or torn? No problem.**
Send us your frame – we remove the used mesh, thoroughly clean the frame, and rescreen it. For repeat rescreening projects, we offer dedicated shuttle crates that ensure safe transport between your plant and our production facility.





# EXCITING MESH WITH ULTRASONICS

## HIGH-FREQUENCY VIBRATIONS FOR PRECISE SCREENING RESULTS

**When it comes to screening fine or demanding materials, conventional systems quickly reach their limits. HAVER & BOECKER's solution: ultrasonic screening systems with innovative frequency variation – developed and marketed in cooperation with ARTECH Ultrasonic Systems, an internationally leading provider of ultrasonic technology.**

These systems noticeably increase screening efficiency: they boost throughput, promote the breakup of agglomerates, reduce oversize particles, and support continuous self-cleaning of the screen. Ultrasonic screening solutions from HAVER & BOECKER can be used for separation cuts from approx. 25 µm to 1,000 µm.

### Ultrasonic screening – the principle

In ultrasonic screening, a special sound conductor is excited to high-frequency vibrations that are distributed across the entire screen section. The ultrasonic technology reduces the proportion of particles lodged in the mesh and extends cleaning intervals. Thanks to the high frequency, stratification is accelerated, finer particles reach the screen surface more quickly and throughput is significantly increased, thus enhancing the overall performance of the screening unit.




### Safety even in ATEX zones

In potentially explosive atmospheres, certified solutions are essential. For this purpose, HAVER & BOECKER offers ATEX ultrasonic screen frames that are specifically manufactured and tested for such applications. Each screen frame and each re-meshing is supplied with a corresponding test certificate for use in ATEX Zone 20 or for gas applications in ATEX Zone 0. The advantage of the ARTECH frequency variation: unlike comparable systems, the ultrasonic components are located outside the screening machine and therefore outside the primary hazard area. They can be installed in ATEX Zones 1/21, 1/22, or in non-hazardous areas.

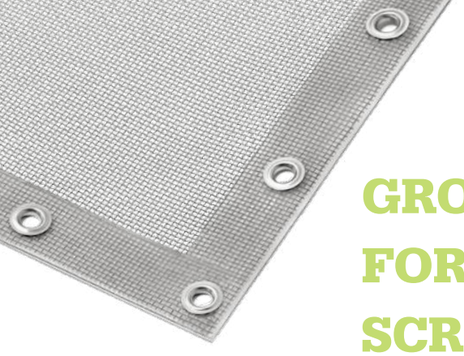
### Flexible in use – easy to retrofit

HAVER & BOECKER offers the Artech Ultrasonic System for almost all machine designs: for rectangular flat screens as well as for round tumbling and vibrating screens of any kind. If you want to use our ARTECH ultrasonic technology on existing screening machines, this is easily possible. We retrofit your screen frames with the appropriate sound conductor. Re-screening of used ultrasonic screen frames is also possible at any time – including ultrasonic screening systems from other manufacturers.



### Plug'n'Sieve – connect and get started

Each ultrasonic system includes all required components, from the pretensioned screen frame with sound conductor to the ultrasonic converter and generator, as well as any necessary support elements. Ultrasonic screen frames with the ARTECH frequency variation system offer maximum ease of use thanks to "Plug'n'Sieve": install the screen frame, connect the ARTECH components, and immediately start screening with increased throughput.





# GROMMET SCREENS FOR HORIZONTAL SCREENING MACHINES

## ROBUST, PRECISE FIT, ACCURATE

**If you operate ROTEX or comparable screening machines, maximum durability and an exact fit are essential. HAVER grommet screens are the first choice. They have been specifically developed to meet the requirements of these machine types – featuring a robust polyurethane edging designed for long service life under demanding operating conditions.**

**HAVER grommet screens – for maximum process reliability.**

Our wire screens stand out thanks to:

- **PRECISE FIT** for horizontal screening machines
- **HIGH TEAR RESISTANCE** due to reinforced edge finishes
- **LONG SERVICE LIFE,** even with abrasive materials
- **CUSTOMIZED DESIGNS** tailored to your application and material

Whether for classification or dedusting, HAVER grommet screens ensure consistently high screening results and minimal downtime.



# HAVER GRANULATING SCREENS

## SHAPED TO PERFECTION



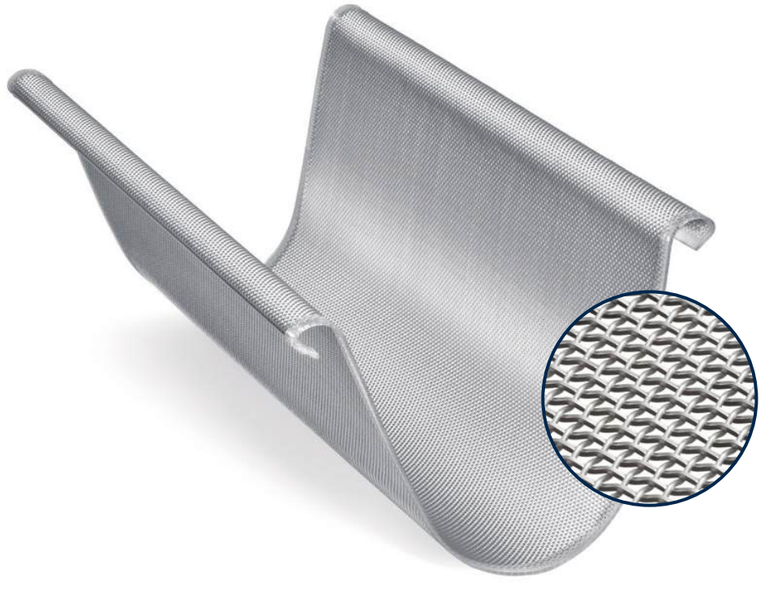
**Granulator screens play a key role in the pharmaceutical production of solid dosage forms such as tablets, capsules, or granules. They are used to transform powder and granulate blends into a uniform particle structure – significantly improving both product quality and process reliability.**

For manufacturers of roller compactors and granulation machines, HAVER & BOECKER offers a wide range of wire mesh specifications featuring square wires in one direction. The sharp edges of the square wires run transversely to the movement of the grinding rotor. They optimise the grinding process and ensure that the flakes are broken up properly and ensure precise separation accuracy for consistent particle size.

Additionally, our granulating screens offer high throughput performance and a durable, robust design – making them equally suitable for applications in the food, chemical, or plastics industries.

Our granulating screens are:

- individually configurable
- easy to clean
- resistant to aggressive media
- flexibly equipped with edge finishes made of polyurethane or stainless steel



**Do you assemble granulating screens yourself? No problem.** We are happy to supply cut-to-size pieces of our wide range of square wire mesh according to your specifications.

# HAVER SCREENING MACHINES DMS AND UMD

## COMPACT DESIGN – IMPRESSIVE PERFORMANCE

**The Wire Weaving Division of HAVER & BOECKER offers two compact screening machines: HAVER DMS and HAVER UMD. Both models are available in single or double-deck versions.**

They process a wide variety of bulk materials from sand, gravel, and ore to sensitive or aggressive media. The ready-to-install screen frames are manufactured by our in-house screening service using the mesh specification you require. Depending on the application, the frames can be re-screened multiple times.

To achieve even the finest separation cuts, the screen frames can be equipped with **BOUNCING BALLS** or **ARTECH ULTRASONIC TECHNOLOGY**. These screening aids improve both the quality of your product and the throughput rates.



### Connected solutions – efficient testing

Thanks to their compact dimensions, both machines are ideally suited for integration into smaller process chains or for use in combination with analytical devices such as the **NEXOPART CPA** (laboratory or online system). The result: fully coordinated testing and production workflows.

### Two machines, two sizes, same high standards

Both the **HAVER DMS** and **HAVER UMD** operate as linear vibrating screens. This ensures compact designs and high separation accuracy – a reliable benefit for any application.

**HAVER DMS**

- screen frame size **630 x 200 mm**
- particle size range **100 µm bis 25 mm**
- ideal for laboratory applications and small production volumes
- throughput up to **200 kg/h** – depending on material and desired cut size



**HAVER UMD**

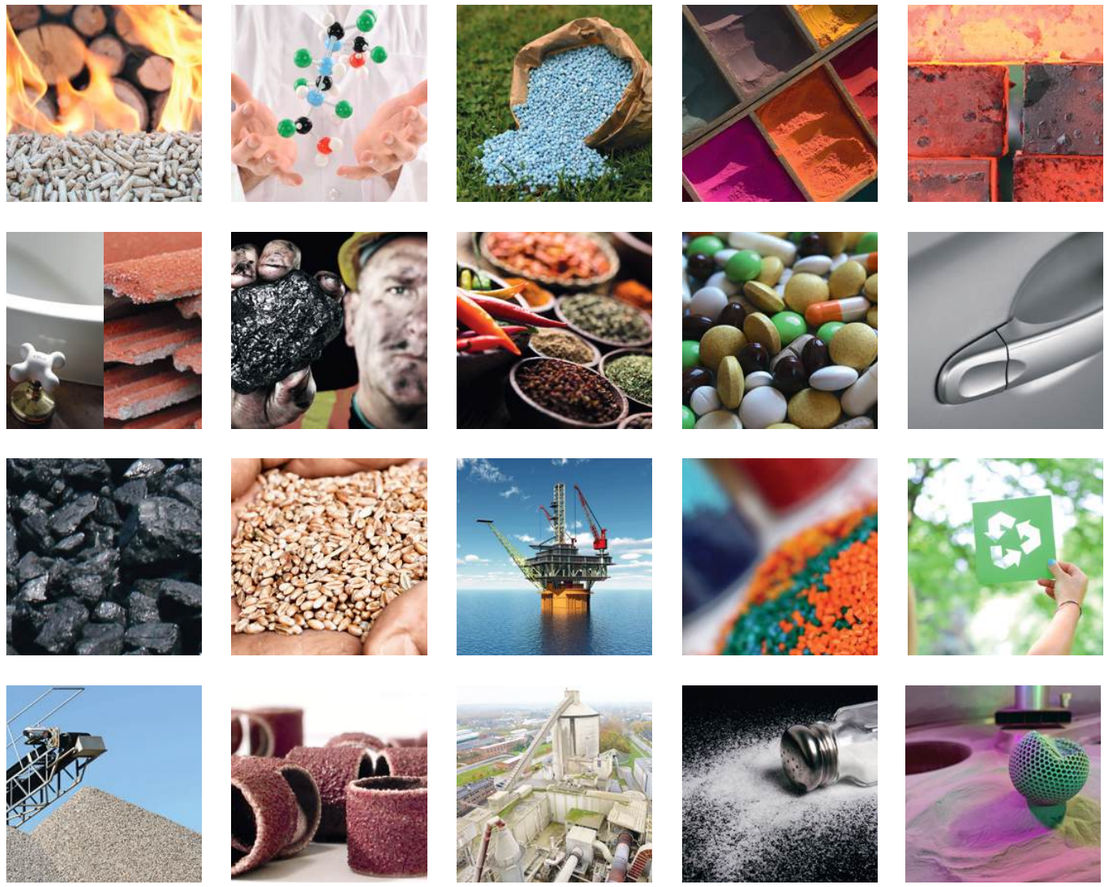
- screen frame size **1.250 x 400 mm**
- particle size range **100 µm bis 50 mm**
- for larger quantities up to **1 t/h**
- ideal for small industrial processes and continuous operations



# INDUSTRIAL SCREENING APPLICATIONS

## THE RIGHT SCREENING MEDIUM FOR EVERY PRODUCT

**From quarries and aggregates plants to crude oil production, and from paint and powder coating, chemical and pharmaceutical manufacturers to food processing companies, HAVER & BOECKER industrial wire screens are trusted in virtually every industry.**



# ENVIRONMENTAL STANDARDS AND CERTIFICATIONS

## RESPONSIBILITY YOU CAN TRUST – QUALITY THAT ENDURES




Modern manufacturing methods, highly qualified employees, and a differentiated quality assurance system guarantee the consistently high quality of our products. This is demonstrated not only by numerous individual certifications from independent testing institutes, but also by our quality management system certified in accordance with **DIN EN ISO 9001:2015.**

As early as 1997, HAVER & BOECKER was among the first companies to be certified to DIN ISO 9001. In addition, our dedicated automotive division also meets the requirements of the **AUTOMOTIVE STANDARD ISO/TS 16949.**

We also lead by example when it comes to environmental responsibility: based on the principles of **ISO 14001**, we have established an environmental management system that is continuously developed in close cooperation with employers' liability insurance associations, the occupational health center, and the works council.

**OUR COMMITMENT:** embedding environmental responsibility into product and process development from the outset, helping to safeguard people and the environment.



# SCREENING, PROCESSING, ANALYZING

## ONE PARTNER – WORLDWIDE

**Users and distributors in the fields of industrial screening, processing technology, and particle analysis benefit from the combined expertise and powerful service of the entire HAVER Group. Each of our subsidiaries contributes its own specialized know-how – precise, innovative, and closely aligned with the requirements of your markets. Together, we create solutions that deliver tangible added value for our customers.**

Whether highly efficient screening and packing machines, analytical precision, high vibration screen media, durable synthetic screens, or laboratory test sieves: our subsidiaries expand the capabilities of our technologies and open new paths in processing technology. They stand for quality, responsibility and reliable partnership.



### Water treatment – clean, safe, stable process water

Process water is a critical production factor. Its quality determines plant stability, the efficiency of downstream processes, and the operational reliability of entire process chains. Mechanical filtration using wire mesh provides a dependable foundation. Our filter elements ensure precise and reproducible separation of solids, even under demanding operating conditions. Depending on the design, they separate particles down to 5 µm, are pressure-resistant, regenerable, and engineered for high throughput. A multilayer design or the use of our mesh laminates enables an optimal combination of filtration accuracy, dirt-holding capacity, and mechanical strength. The result: stable filtration processes, reduced maintenance intervals, and reliable protection of downstream equipment over long service lives.

HAVER & BOECKER NIAGARA

### HAVER NIAGARA – the next level of processing technology

HAVER NIAGARA is globally recognized for high-performance screening machines and first-class solutions in processing technology – developed for maximum efficiency, outstanding reliability, and measurable added value in demanding industries such as mining, aggregates, minerals, recycling, and fertilizers. As a specialist in screening, pelletizing, and complete plant concepts, HAVER NIAGARA sets benchmarks in performance, quality and durability.
Synthetic screen media from HAVER NIAGARA complement our industrial screen portfolio wherever high wear resistance, and quiet, low-vibration screening are essential. The modular screen panels made of durable polyurethane or rubber are particularly well suited for abrasive or moist materials.

MAJOR®
A HAVER & BOECKER BRAND

### MAJOR WIRE – Accelerate stratification, boost production

If you want to significantly increase the performance of your screening machine, **FLEX-MAT® HIGH VIBRATION WIRE SCREENS** from MAJOR WIRE are the solution of choice. The preformed warp wires are fixed in special PU bindings – allowing them to vibrate freely. This increases frequency, accelerates stratification, and noticeably boosts throughput. At the same time, material buildup and pegging are effectively prevented.
**FLEX-MAT®** wire screens are available in high-quality **OPTIMUMWIRE®** as well as in stainless steel. The result: longer service life, reduced maintenance, and consistently high screening performance over extended periods.
Whether quarrying, recycling, or industrial production – FLEXMAT® is the ideal choice for anyone looking to get more out of their screening and processing technology.

NEXOPART

### NEXOPART – Intelligent particle analysis

In industrial processes, every detail matters. If you value exact results, precise material and particle analysis is essential. With its “simplicity for your lab” approach, our subsidiary NEXOPART offers powerful solutions for particle analysis – simple, efficient, and reliable.
Whether for sample analysis or quality control, NEXOPART’s robust and intuitive measuring instruments are suitable for laboratory use as well as for production environments. They cover a wide range of applications:

- sands, soils, construction materials
- food products, pharmaceutical active ingredients
- recycled materials, chemical products
- plastics, color pigments, toners, specialty coatings

CPA 2-1 – dynamic image analysis at the highest level. For precise particle size and particle shape analysis, the NEXOPART CPA 2-1 laboratory or online system is the ideal solution. It uses dynamic image analysis to deliver accurate, reproducible results – fast and in compliance with standards.

# FASCINATING ENGINEERING. AS ONE.

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