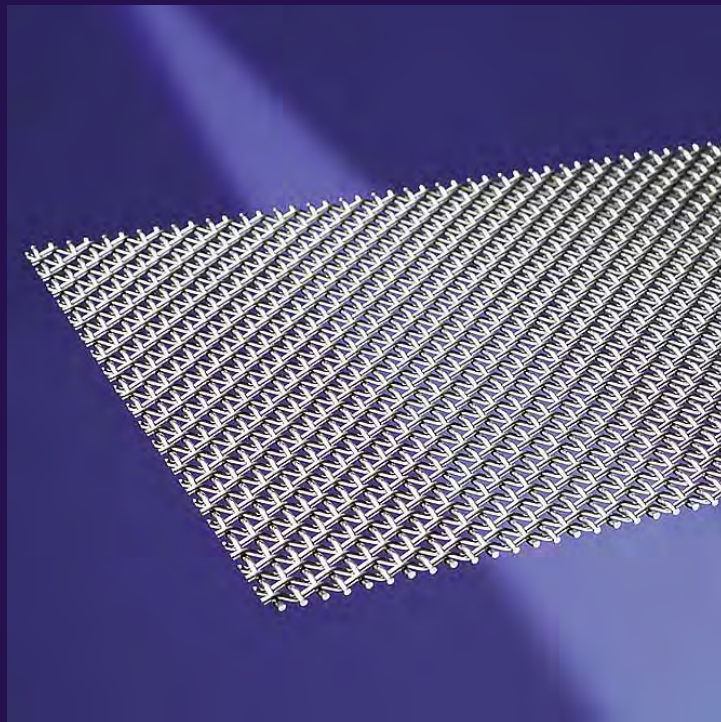

HAVER & BOECKER



Information



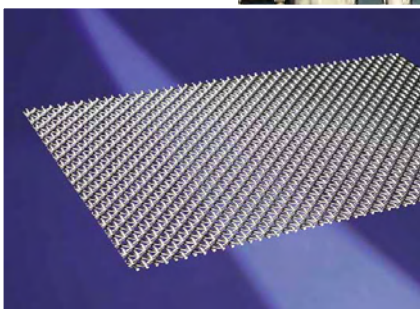
**The Wire Weaving
Division**

HAVER & BOECKER began producing woven wire cloth in Hohenlimburg, Germany, in 1887. In 1925 the Machinery division began producing valve bag packing machines for cement. The production of NIAGARA-Vibrating screens started in 1930.

Today, we are one of the world's leading wire weaving companies with a global network of branches and manufacturing facilities.

In 2010, HAVER & BOECKER operates several plants in Germany as well as manufacturing facilities in Great Britain, Belgium, the USA, Canada, India and Brazil. More than 2,000 people work for the Group worldwide, with more than 100 serving their apprenticeship in the German facilities.

Our work is based upon experience, continuous research and development of our products and manufacturing processes, along with the knowledge and ability of our staff. This combination of tradition and innovation allows us to meet and exceed the high expectations of our customers.



Woven wire cloth, as used in the central assembly hall of the Reichstag Building in Berlin, Germany

HAVER woven wire ceiling panels in the central assembly hall and the press lobby of the Reichstag Building in Berlin, Germany



Spools of wire



Preparation of warp drum



Threading wires



Quality control of warp wires



Production of fine mesh woven wire cloth



Stock of fine mesh woven wire cloth



Stock of coarse mesh woven wire cloth



Wire Weaving Division in Oelde, Germany

Rolls, Pieces, Strips, Discs, Fabricated Parts, Filters, Screen Sections **– Whether in large Quantities or by the Piece – We supply Your exact Requirements**



Quality control of woven wire cloth

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 are evidence of the current and on-going development of our product range.

We aim to exceed our customers' expectations with a consistently high product quality, and hence strengthen our leadership in the market.



Cutting



Production of hook strips



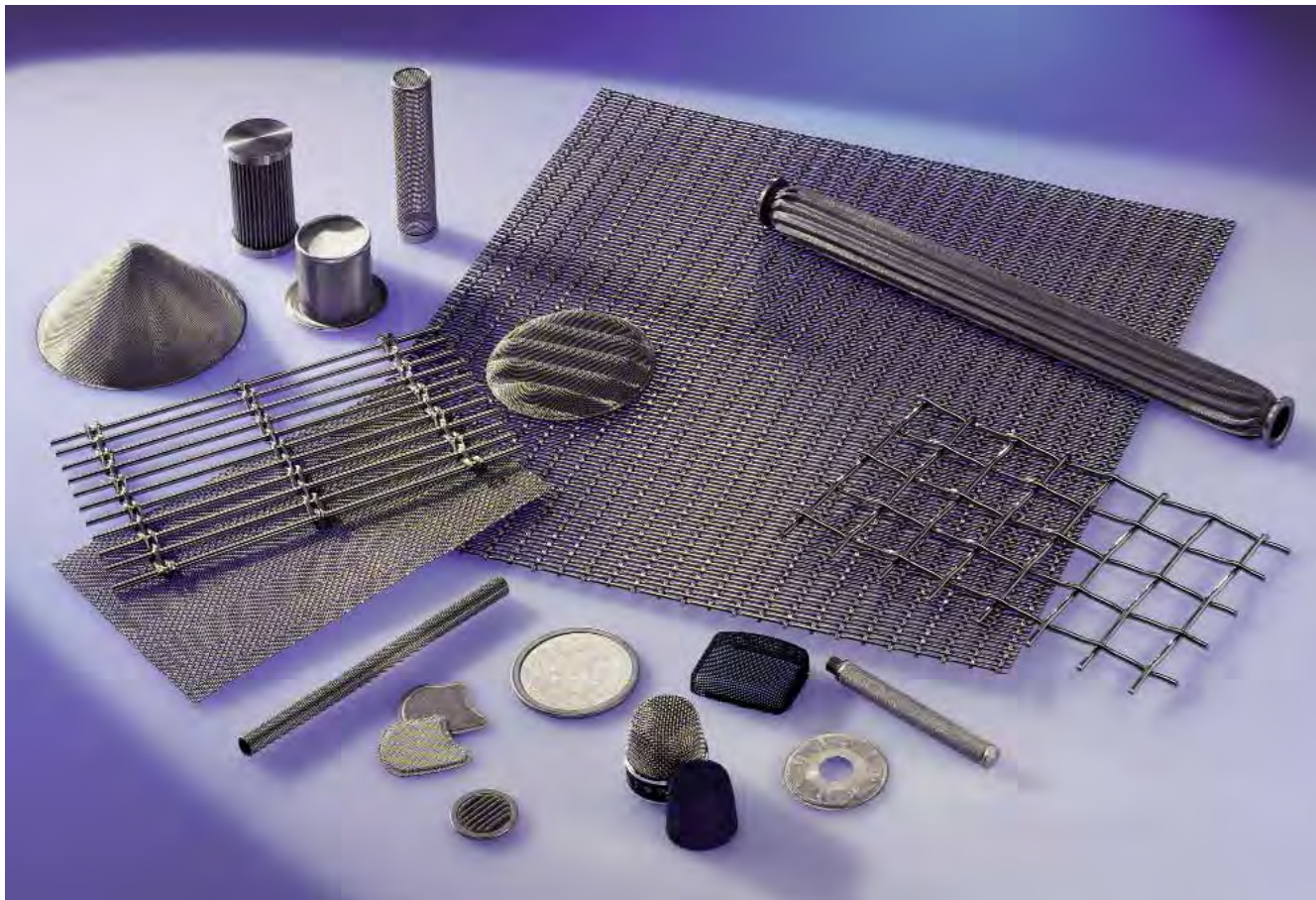
Woven wire cloth rolls



POROSTAR tandem filter candles



Punched parts



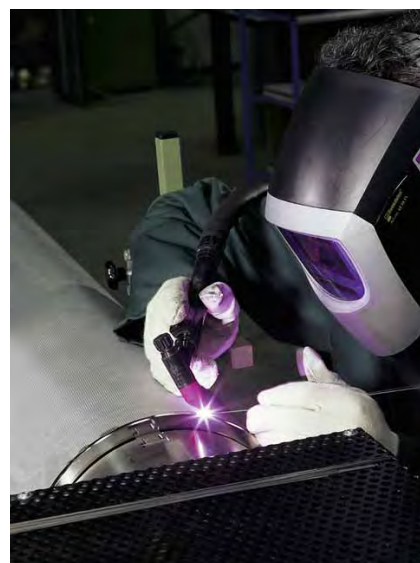
Discs, fabricated parts, spinneret filters and filter candles

Our precision woven wire cloth is used for screening, filtration and analysis in many industries: chemical, plastic, automotive, aviation, aerospace, electronic, food and many others.

Along with its technical qualities, HAVER Woven Wire Cloth has a high aesthetic value. Architects and designers have become interested in using these qualities for applications such as panellings for ceilings, walls and frontages.



Automated production of fabricated parts



Welding of POROSTAR filter candles



Automated products



Teste sieve production



POROSTAR XL-Spinneret Filters

Wire Weaving Division – Product Range

The use of the latest production technology and equipment, as well as a sophisticated quality control, guarantees the most suitable Haver Wire Cloth for any application.

We weave using wires as thick as 16 mm (0.63") diameter down to those of only 0.016 mm (16 microns) diameter.

Steel: bright, galvanized, tinned, lacquered, plastic coated.

Stainless Steel: chromium steel, nickel chromium steel, nickel chromium molybdenum steel, heat resisting steel.

Non-ferrous-metals: aluminium, nickel, MONEL-metal, phosphor bronze, brass, copper.

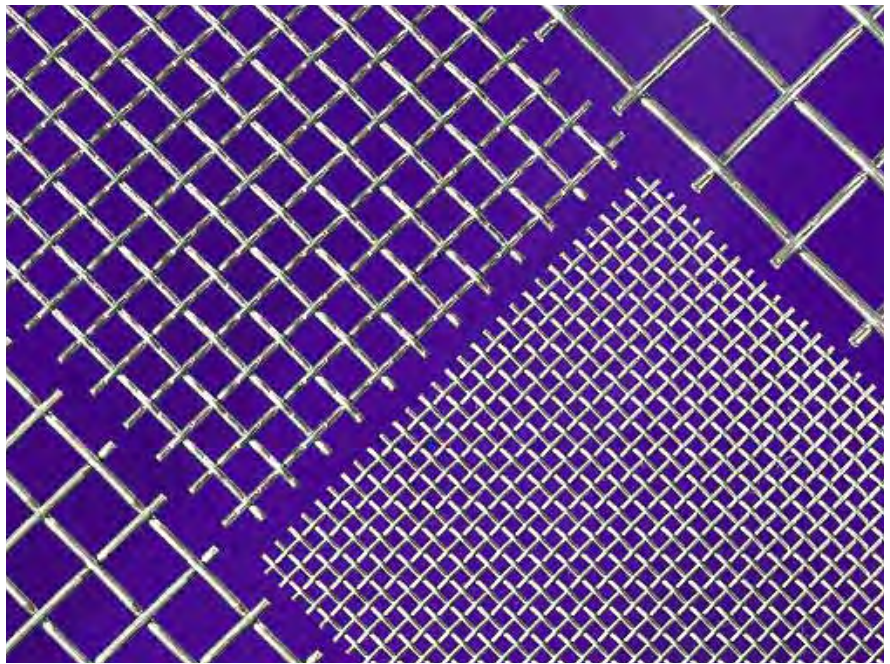
Special materials: titanium, hastelloy, silver and many others.

Plastics: polyethylene, polyester, polyamide, polypropylene.

Woven Wire Cloth “as woven” is manufactured according to ISO 9044 and corresponds to the user’s demands. In some cases it may be necessary to make specific arrangements to satisfy our customers’ requirements.

State-of-the-art machinery and a team of qualified experts manufacture wire cloth and wire cloth products suitable for all applications.

Standard rolls, roll sections, cut-to-size pieces, strips, discs, fabricated parts, filter candles, -discs, -cones, -plates, aeration pads, round sieves, air conveying troughs, extruder screens, test sieves and many others are produced using the following processes:

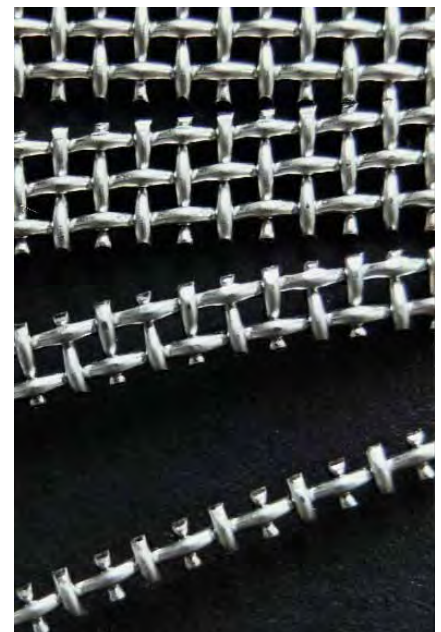


Wire Screens

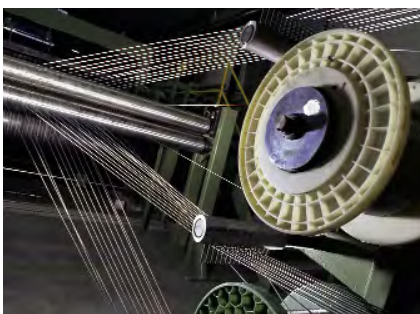


Quality control

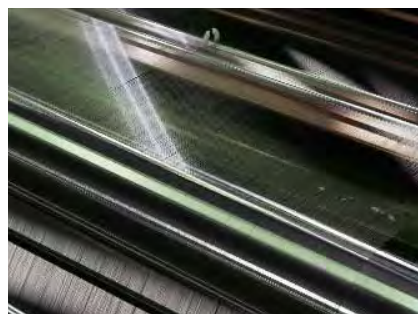
cutting, cutting into lengths, stretching, calendering, heat-treating, sintering, cleaning, welding, soldering, pleating, punching, stamping, compressing, forming, lacquering, coating and many others.



Sintered stainless steel cloth



Warp wires



Weaving process



Cutting of woven wire cloth

Industrial Sectors and Applications

Chemistry and Plastic

POROSTAR XL-Filters are used for the production of polyester fibres and polyester monofilament.

HAVER Spinning Nozzle Filters and Strainer Sieves for artificial and natural rubber products.

Filterdiscs with one or several layers for extruders.

Wire Cloth for sieves and filters.

Calendered and sintered wire cloth for composite materials.

PLYMESH and POROSTAR Woven Wire Cloth Laminated Panels:

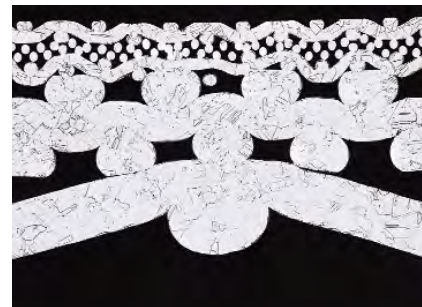
Several layers of woven wire cloth of the same or different characteristics are firmly joined together by sintering.

PLYMESH is mainly used for aeration pads and cones as a highly efficient discharging aid in silos and in air conveying troughs.

POROSTAR is a filter medium with many applications. The characteristics of its material make it specially suitable for the particle free filtration of solid-liquid and of solid-gaseous materials.

Aluminium Foundry

Sieve cups for the cleaning and homogenizing of melts.



POROSTAR-Laminated Panel



POROSTAR-Centrifugal Basket

Mining and Quarrying

HAVER Industrial Screen Sections made from stainless steel and NIA-Spring Steel for all types of sieving machines.

Completely fitted sieve frames for the most common types of sieving machines.

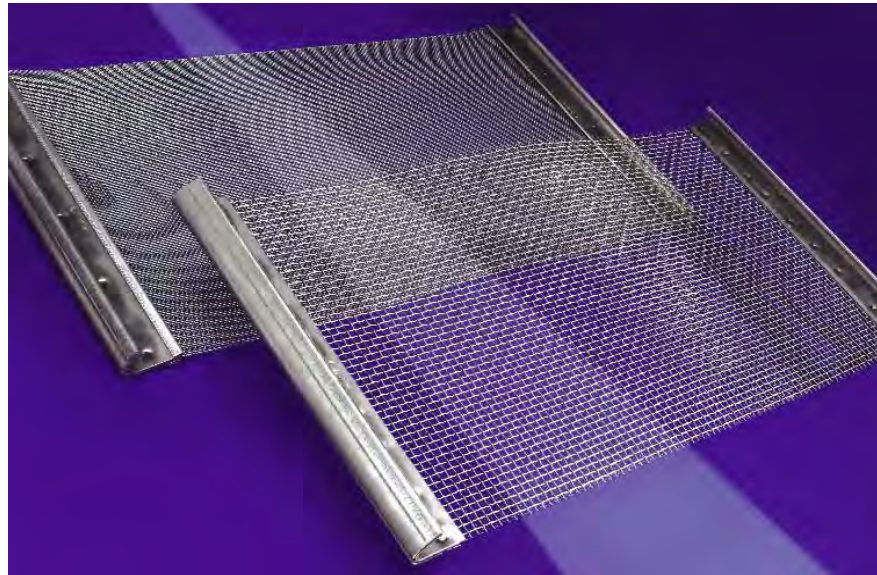
Round screens up to 2,650 mm diameter, rectangular screens up to 2,650 x 3,100 mm.

Crude Oil, Natural Gas, Coal

Round sieves for slurry screening.

Sieves for MUD cleaning.

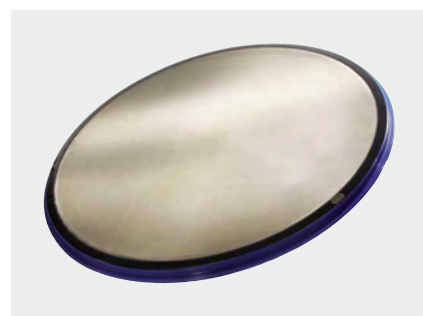
Industrial Wire Screens for all types of Sieving machines.



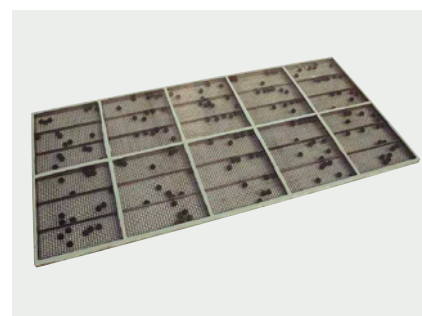
HAVER-Industrial Screens with Hook Strips



PLYMESH-Aeration Pads



Round Screen



Rectangular Screen

Industrial Sectors and Applications

Laboratory Equipment / Particle Size Analysis

Test Sieves corresponding to ISO, DIN, BS, AFNOR, ASTM, TYLER and other relevant standards. Test Sieve Shakers for dry-, wet- and ultrasonic test sieving, Sample Splitters and Test Sieve Cleaners using ultrasonic action.

Photo-Optical Particle Size Analysers HAVER CPA for particle size and shape analyses within the range of 0.04 to 200 μ m.

Applications within the following industries: pharmaceutical, chemical, food, automotive, mines & quarries, iron and steel and in general all kinds of processing control.

Aeronautic, Aerospace and Automobiles

MINIMESH twilled weave for hydraulic filters.

Cone classifiers for tank farms.

Oil- and Petrol Filters.

Strips, elements and fabricated parts made from Woven Wire Cloth for air-bag-systems.

Regenerators for stirling motors.

Protective Screens for lorries and tractors.

Electronics, Audio, Batteries, Shielding

HAVER Wire Cloth for screen printing stencils for printed circuit boards.

Microphone Caps, Screen Fronts and Shaped Parts for loudspeakers.

Nickel Wire Cloth for batteries.

Shielding Gauze.



Test Sieve Shakers
HAVER EML 200 digital plus T and HAVER EML 300 digital plus T



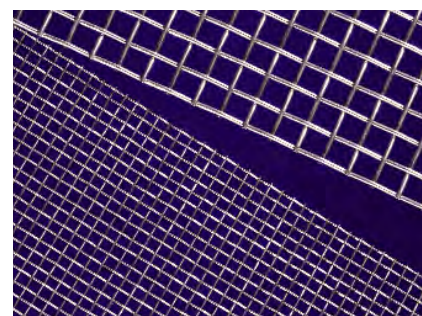
HAVER Test Sieves



Woven Wire Cloth Screen Section with hook strip



Photo-Optical Particle Size Analyser
HAVER CPA 3-2



Square Mesh Woven Wire Cloth

Industrial Sectors and Applications

Food Processing

HAYER bolting cloth for plansifters.
Stainless Steel Screens for cheese-, meat-, fish-, fruit- and breadtrays.
Wire Cloth Screens made from NIA-Spring Steel used for hop picking machines, swing-hammer crushers and maize drying plants.
Filter discs for cocoa butter presses.
Sieves for honey, protection gauze for use in bee-hives.

Mountings, Screen Printing, Textile, Paper Pulp Products, Abrasive Materials

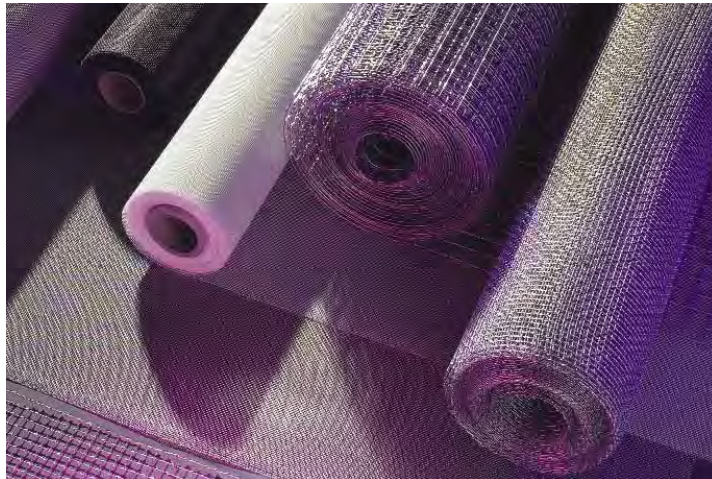
Discs for jet regulators.
HAYER Wire Cloth for screen printing China and imprinting ceramic.
Wire cloth for ironing and washing machines.
Heat-treated wire cloth for paper pulp products.
High-precision wire cloth for sieving abrasive products.

Hardware Cloth

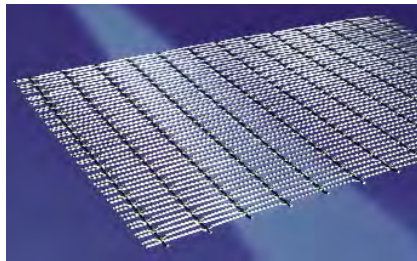
DIAMANT Insect Screen for doors and windows to keep out insects.
HAYER Protective Screens for doors and windows.
VULKAN Screen for almost all applications, e.g. protective screens, aeration screens, compost silos, bee keeping, aviaries etc.

Architecture and Design

Woven Wire Cloth and Screens for ceiling panels, walls, facades, sun protection and screening, staircases and balustrading, interior partitions, sound absorption, visual protection and design, advertising media, display shelving, exhibition booths, interior design, decorative panels / cladding, aviaries, security / protection.



Hardware Cloth



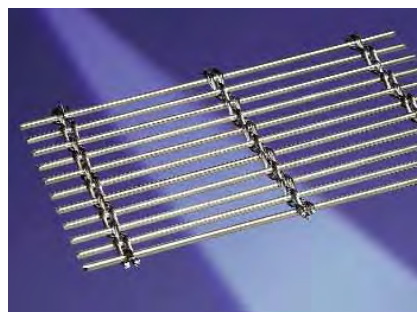
ECLA-MONO



Facade Design with Woven Wire Cloth Elements made from Stainless-Steel, Car Park P3, Airport Cologne/Bonn



Thickness Control of Woven Wire Cloth



MULTI-BARRETTE



Rolls of Woven Wire Cloth

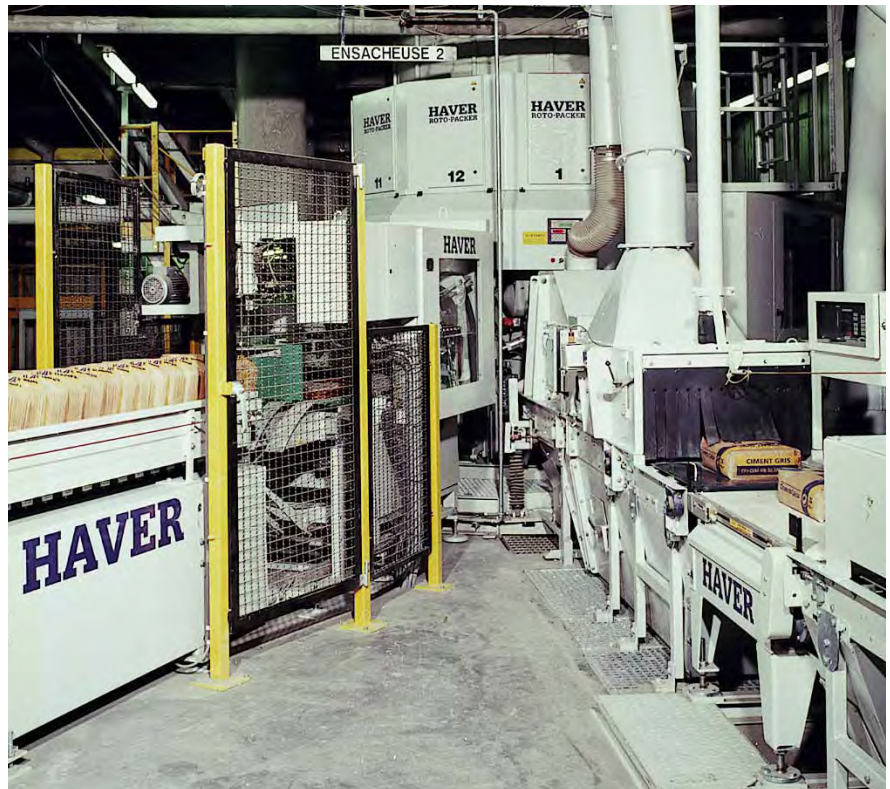
Machinery and Wire Weaving Division – Building on our Strength

The MACHINERY DIVISION began producing valve bag packing machines for cement in 1925. The production of sieving machines started in 1930.

Since then HAVER & BOECKER has supplied more than 8,000 packing machines and loading plants for the bagging of cement, lime, fertilizers, dry mortar products and plastic granules as well as more than 15,000 NIAGARA Vibrating Screens for the screening of rail gravel, sand, gravel and ore.

Our continued success is based on our symbiotic customer relationships and the special skills of our employees and workmen.

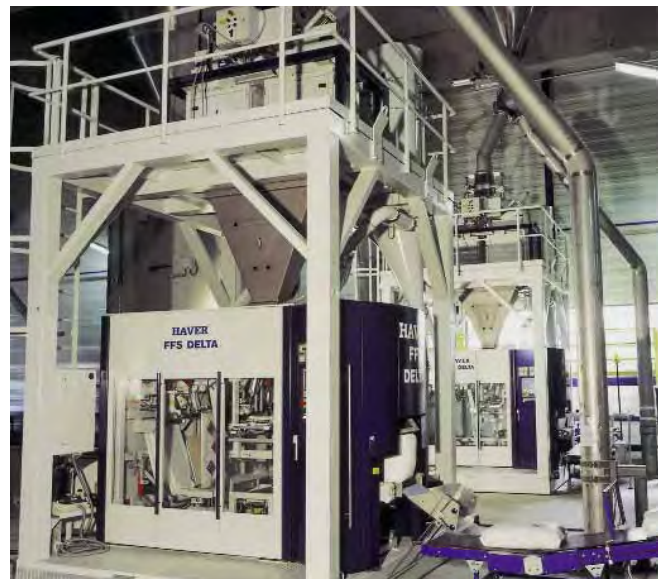
We aim to meet our customer requirements and thus to strengthen our technological leadership on the market.



HAVER Rotoseal-Packer
fills and seals valve bags for the chemical building industry



HAVER Pre-Crusher for the processing of hard rocks



Form-Fill-Seal Machine for bagging of freeflowing bulk materials



Training ensures skilled personnel
for the future



Final assembly



Flow rate analysis in our research department

Quality Assurance System

The use of the latest technology and equipment for quality control guarantee the high and constant quality of our woven wire products.

Our quality management system is certified according to DIN EN ISO 9001:2008.



Final control



Mesh aperture measuring in our laboratory



Microscopic inspection in our works laboratory



HAVER test sieves



Bubble-Point-Test



Air flow rate measuring of filterelements

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