

SCREENING FILTRATION DEWATERING



CANAL



Sint-Katelijne-Waver, Belgium



Since 1994, **CANAL** has been to the industry a global provider of separation media made from perforated sheets, metal mesh, expanded metal, knitted mesh, wedge wire and polyurethane.

Our solutions and services apply to:

- ◆ Chemical industry
- ◆ Plastic industry
- ◆ Fertiliser industry
- ◆ Food industry
- ◆ Machine builders
- ◆ Mining
- ◆ Recycling industry
- ◆ Steel industry
- ◆ Handling and warehousing

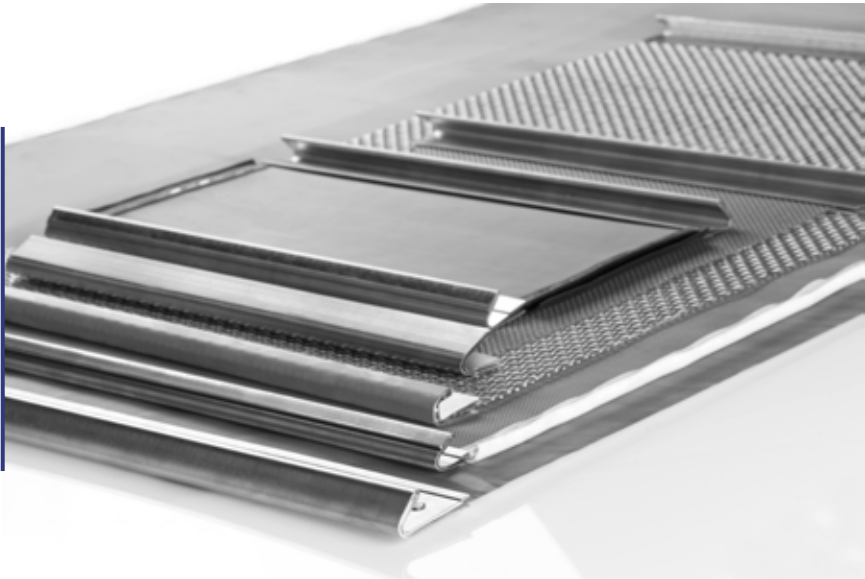


1. SCREENS AND FILTERS

1A SCREENS

METAL MESH HOOKS, WELDED MESH, PERFORATED SHEETS OR POLYURETHANE FOR ALL BRANDS OF SCREENING MACHINES

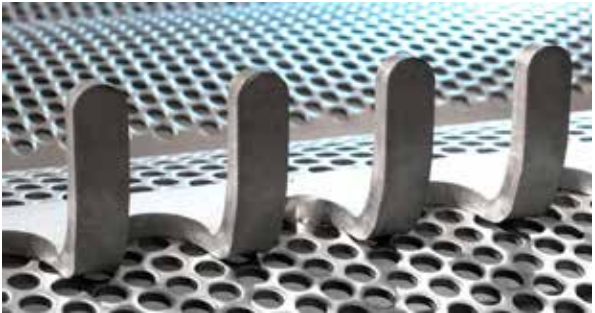
- ◆ For longitudinal or cross tensioning
- ◆ Reinforced with PUR or rubber strips
- ◆ Lip seals in rubber or glued silicone for food application
- ◆ Various types of hooks:



Type	Cross tensioning	Longitudinal tensioning
Standard		
Double folded		
Welded hook		
For welded mesh		
Flat, folded double		
Flat hook		

SCREENS AND SCREEN CYLINDERS

- Synthetic or metal mesh screen cylinders for screeners
- ◆ For the food industry with polyurethane weld and parts that meet the EU 10/2011 standard
 - ◆ For explosion hazardous environments with antistatic screen mesh

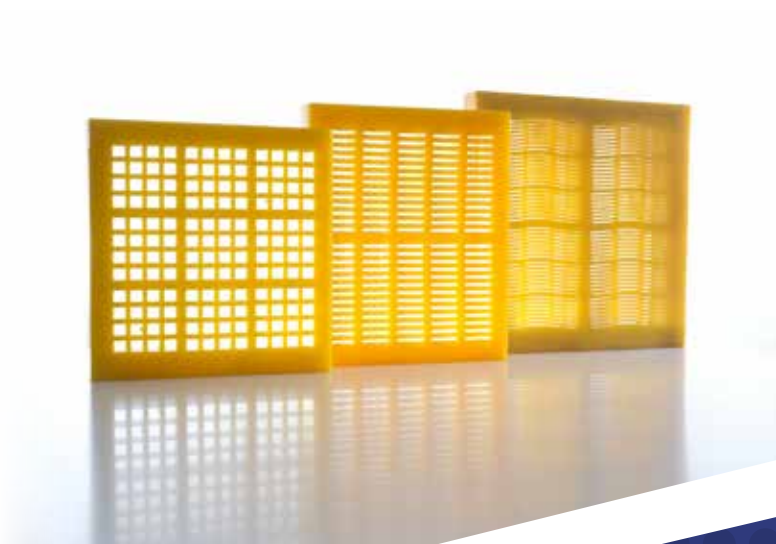


- ◆ Standard model with finishing edge and glued side seam
- ◆ Stainless steel mesh with supporting mesh and optional magnetic stainless steel for the food industry



POLYURETHANE AND RUBBER TENSIONED SCREENS AND MODULES

- For screening machines of all brands including adapted fixation systems
- ◆ As longitudinal or cross tensioned – with or without hooks
 - ◆ As a modular system with adapted frames and carriers
 - ◆ Different mesh sizes (0.5 – 100 mm), thicknesses and hardness (SHORE 50 to 95) depending on the application. Also possible to work with two types of hardness per layer: a soft top layer and a hard bottom layer
 - ◆ In combination with metal mesh in case of overload
 - ◆ Vulcanisation of rubber on a steel base plate
 - ◆ Benefits:
 - Very resistant
 - Long service life in extreme conditions
 - Quick installation



1B FILTERS



STRAINERS

- ◆ Made of metal mesh and/or perforated sheet metal
- ◆ With flanges, bottom and/or handles



MELT FILTERS

As an essential part of the extrusion process to ensure the best quality of the final product

- Types:
- ◆ Flat filters
 - ◆ Curved filters
 - ◆ Pleated filters
 - ◆ Candle filters



DEMISTER

- For mist separation applications
- ◆ Used in processes with sulphuric acid, copper, nitric acid, chloric acid and phosphoric acid.
 - ◆ Material: Stainless steel, aluminium, plastic, copper, brass, titanium, iron, etc.
 - ◆ Thread thickness Ø 0.03 mm – 0.8 mm – round or flat wires
 - ◆ Support structure or candle shape according to Brinck technology

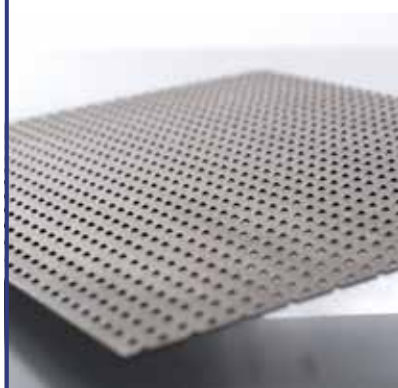
FILTER SLEEVES

- Needle felt filter media and filter fabric for dust removal installations and solid and liquid separation
- ◆ Material: Polyester, PP, PAN, Meta-aramid, PPS, PI, glass fabric and Teflon
 - ◆ Possible material treatments: water- and oil-repellent, antistatic, spark-resistant or with PTFE coating/membrane
 - ◆ Fittings available: filter support baskets or filter frame



FIXATIONS	FINISHES
Snap ring	Loop
Cord	Round bottom
Steel ring	Flat
Flange	Reinforced plane
Sealing felt	Folded
Folded	Bottom with hole
Cut	

PERFOPLATE



- ◆ Expertise in purchasing and processing special material types of alloys resistant to corrosion, abrasion, acids and high temperatures
- ◆ Customisation according to specific requests: large variation of specific perforations thanks to our in-house tool production
- ◆ Punching of sheets with a width of up to 2,500 mm, length of up to 6,000 mm and thickness of up to 30 mm
- ◆ Stock of steel, aluminium and stainless steel sheets in standard dimensions (2,000x1,000 – 2,500x1,250 – 3,000x1,500 mm) and thicknesses (0.6 mm to 4 mm thickness) with standard perforations (round, square, slots, etc.)

MESH

Woven, corrugated mesh or welded mesh

- ◆ Made from the most corrosion-, acid- and heat-resistant stainless steel (such as 1.4301 and 1.4401), magnetic stainless steel (1.4016 and 1.4462), nickel chrome steel (Inconel and Incoloy), spring steel and non-ferrous (nickel, bronze, brass and aluminium)
- ◆ On roll in widths up to max. 8.00 m or cut to size
- ◆ Stretched, annealed, cleaned



SYNTHETIC MESH

- ◆ PA6.6, PA6, PET, PP, E-CTFE, ETFE or PEEK
- ◆ On roll in widths up to max. 1.50 m or cut to size
- ◆ Antistatic



EXPANDED METAL

- ◆ Available in steel, aluminium, stainless steel, copper, galvanized steel, Corten and other materials on request
- ◆ Width up to 2,500 mm
- ◆ Very large lengths available by production from coils
- ◆ Large variety of meshes: diamond, round, square, rhomboidal, hexagonal in standard or flat rolled version



WEDGE WIRE

Available in stainless or acid-resistant steel, as well as special alloys such as duplex, super duplex and others on specific request.

In flat plates and cylinders. Slot openings from 0.035mm. Wide range of (support) profiles.

CUSTOM-MADE

Made to order to optimise separation process

- ◆ For steel parts: punching, cutting, bending, welding, thermal treatment, surface treatment, cleaning
- ◆ For plastic parts: hot cutting, cold cutting, stitching, gluing, punching, ultrasonic welding, cleaning



2. REPAIR OF SCREENS AND FILTERS

A screening machine or filter can only operate optimally if the mesh is at the correct tension and is in good condition. Production requirements may also change, requiring adjustments to the screens or filters.

CANAL has built up the necessary years of experience in screen tensioning and makes high-quality separation media with adapted adhesive bonding or welded connections for each specific application.

CANAL also offers reworking services. Defective screens can thus be tensioned with new wire mesh, which means that they can be reused as good as new.

CANAL also makes a wide range of spare and wear parts available for various screening installations. Various screen frames and various accessories are available in the short term.



2A SCREEN REPAIR



CANAL makes it possible to rework custom screen frames for all brands of screen installations and knows that the separation processes are crucial for the continuity of production. It is precisely for this reason that urgent procedures are offered in which repairs can be carried out in one working day.

- ◆ Manufacture of stainless steel, steel, aluminium and wooden screen frames in standard or custom-made version
- ◆ Wide choice of screen mesh and perforated stainless steel and plastic sheets
- ◆ Both standard and food-grade adhesives, for high temperatures, for wet environments and for abrasive applications
- ◆ Fixing of the screen meshes or perforated plates by spot welding or soldering
- ◆ Ultrasonic screen tensioning
- ◆ Screens for use in explosive environments
- ◆ Screen frames for clean rooms, air conditioning and hospital installations
- ◆ Tensioning frames with a diameter of up to 3.00 m and more possible



2B FILTER REPAIR

The replacement of components and the cleaning of filters ensures that the life of the elements is extended. In addition, the delivery time in this case is much shorter than for new parts.

- ◆ Replace round plates of centrifugal discharge filters with new mesh
- ◆ Clean sheet filters of vertical pressure leaf filters or, if necessary, replace with new mesh
- ◆ Cleaning or repairing filter baskets by replacing metal mesh or perforated plates
- ◆ Replacement of the mesh of the frames in quench air tanks



2C WEAR PARTS

SPARE AND WEAR PARTS

- ◆ Ball bottom made of stainless or normal steel for screening machines
- ◆ Seals
- ◆ Sleeves in various designs suitable for standard, food-grade and explosive environments. Solutions for food (EU 10/2011, FDA), for explosive environments, with flange closure

Material/colour	Height in mm	Diameter in mm
Black rubber	273	100-250
White neoprene		
Plastic	Made to measure	Made to measure
Transparent polyurethane		



- ◆ Cleaning balls in various diameters and materials

Material	Hardness	Colour	Diameter in mm	Quality
Rubber	Up to 90 Sh A	Black, white, brown or transparent	10 to 50	Food-grade, Atex, magnetically detectable
Neoprene	Up to 80 Sh A			
Silicone	Up to 55 Sh A	Transparent		
Polyurethane	Up to 80 Sh A			

2D

SERVICE



- ◆ Quality, measurement and material certificates
- ◆ Secure and flexible custom pick-up and delivery service. **CANAL** also offers appropriate solutions for the transport of screens of more than 2.5 m diameter
- ◆ Custom-made crates or racks as suitable packaging for parts
- ◆ Possibility to work with strategic stock or blanket orders to guarantee the security of supply of screens and filters



Are you interested in discovering our solutions and benefits?
Let's find out how we can join forces!
We are looking forward to your call or email!



REPAIRS

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NEW PARTS

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