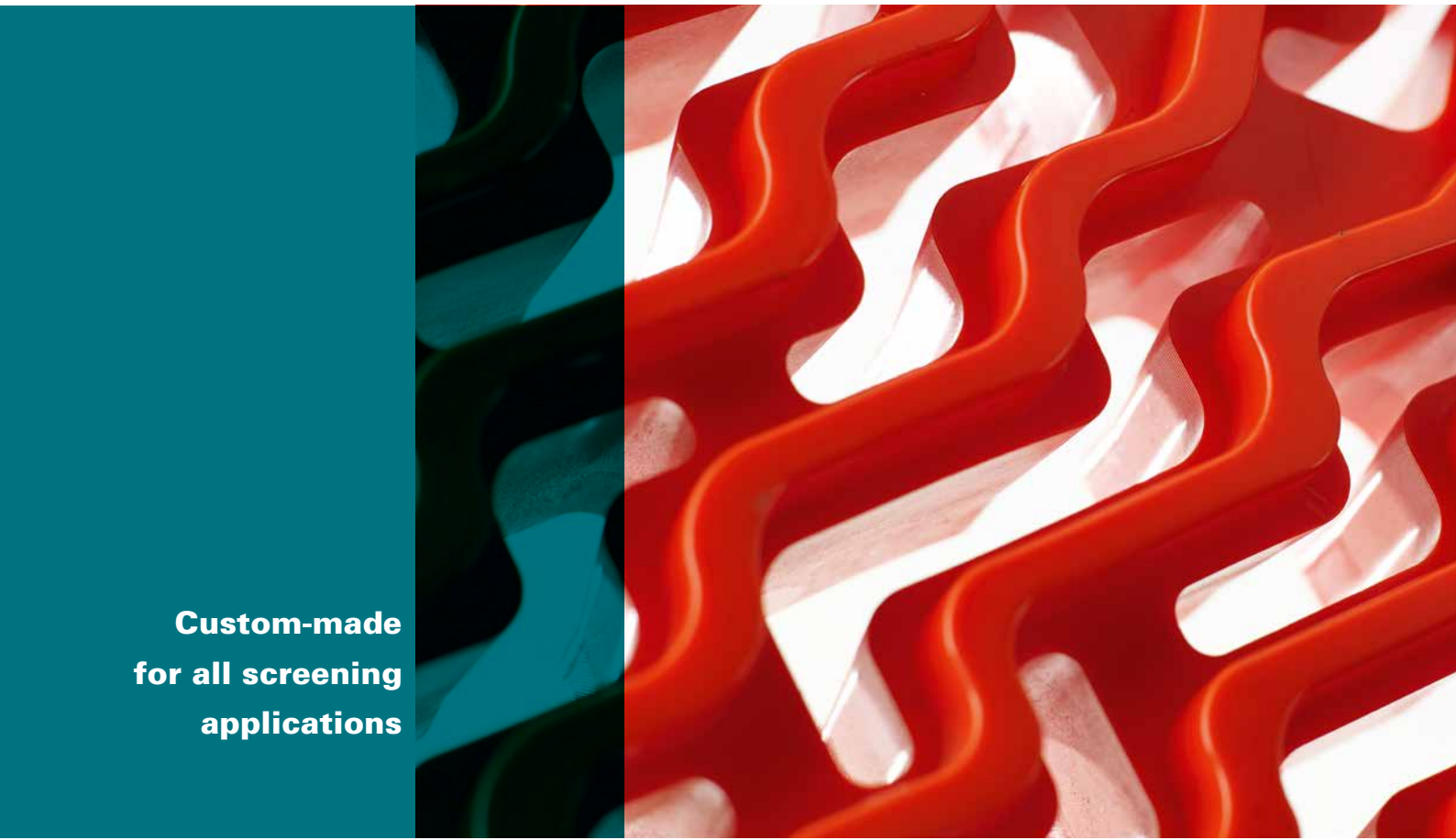


# Screenex<sup>®</sup> screening media. More tonnes with greater efficiency.

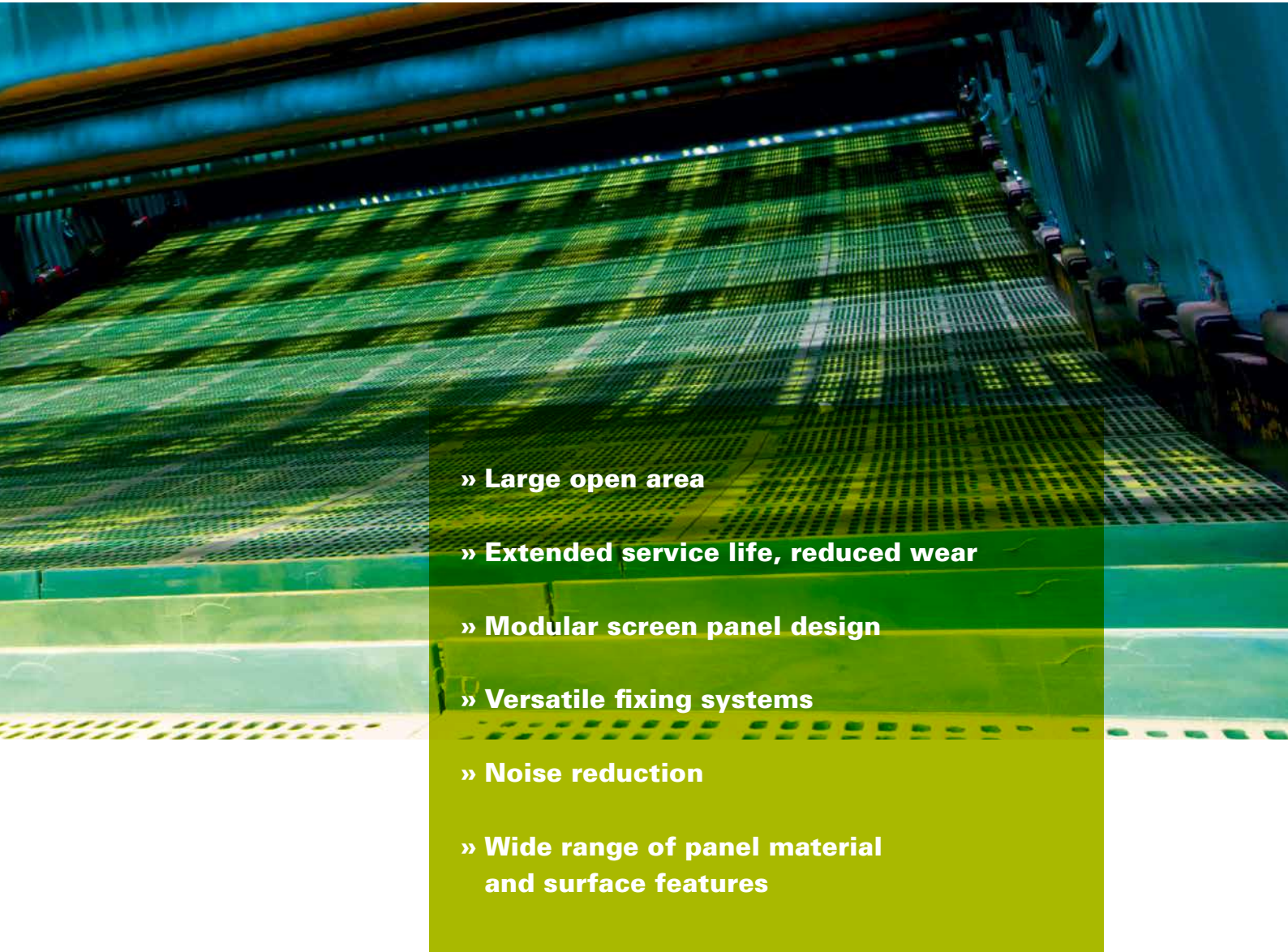
**Custom-made  
for all screening  
applications**





Optimal performance  
for your process.  
Safe, on time and  
on budget.

Global pioneer  
in modular  
screening media.



- » **Large open area**
- » **Extended service life, reduced wear**
- » **Modular screen panel design**
- » **Versatile fixing systems**
- » **Noise reduction**
- » **Wide range of panel material and surface features**

Accurate bulk material separation is essential for a high-quality end product. Screenex® panels from Schenck Process provide individual solutions for your specific screening tasks, achieving minimum wear and maximum service life.

No matter if your screening process is particle separation, product recovery, sizing, washing or dewatering, our expertise in supplying custom-designed screening systems will guarantee you solutions that provide the best possible results.

**More than 4,000 panel options have been developed to date with over 50 worldwide patents.**



#### Screens and screening media

- » Maximum asset protection
- » One-stop shop
- » Assured quality
- » Warranty preservation

# Holistic screening.

As the market leader in screen panel supply, Schenck Process understands the importance of the relationship between the design of our vibrating screens and the correct screening media selection in order to obtain optimum screening performance. Through our Screenex® range of screening media we can ensure our philosophy that each system is designed to best satisfy customers' individual requirements, providing an optimized solution for the screen in terms of process efficiency, structural integrity and service life.

Schenck Process can also offer our dedicated team of screening media and process specialists to continually work with the customer to optimize the operational efficiency of the screening process.

In addition to this Schenck Process can retrofit competitor's screens or screen panel systems with our Screenex® panel systems to ensure improved screen performance.

Schenck Process vibratory screening equipment can handle the bulk materials used in mining – whether large lumps or fine particles, wet or dry, for iron ore, coal, precious metal ores and all types of base metal ores.

**Solving technological problems is our specialty.**

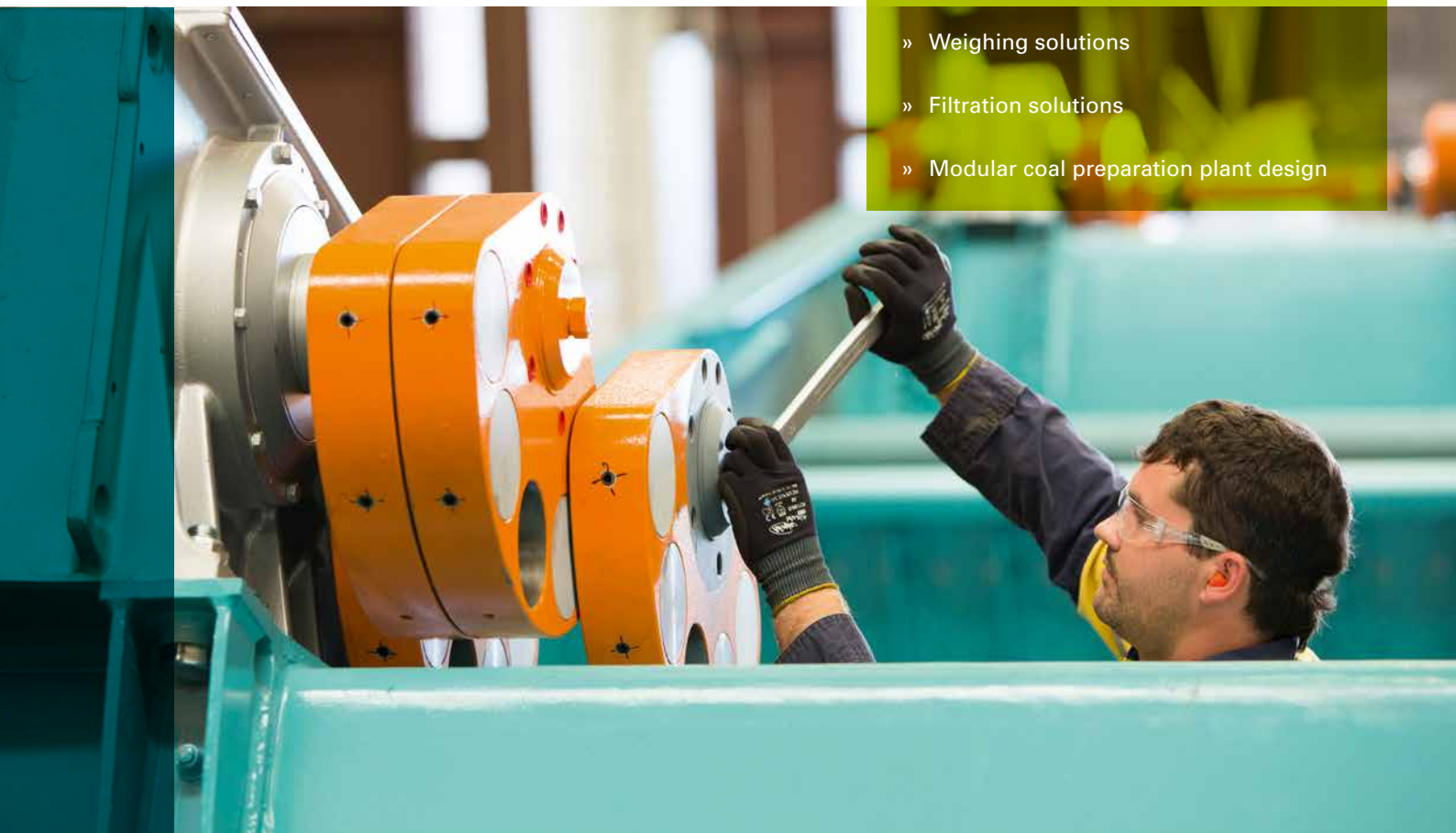
Our application-specific solutions include heavy-duty weighing technology as well as static weighing technology – from conveying, screening, drying and cooling to dewatering. We assist in all processes from planning to the construction of plant sections and offer reliable controls for the connection to data systems.

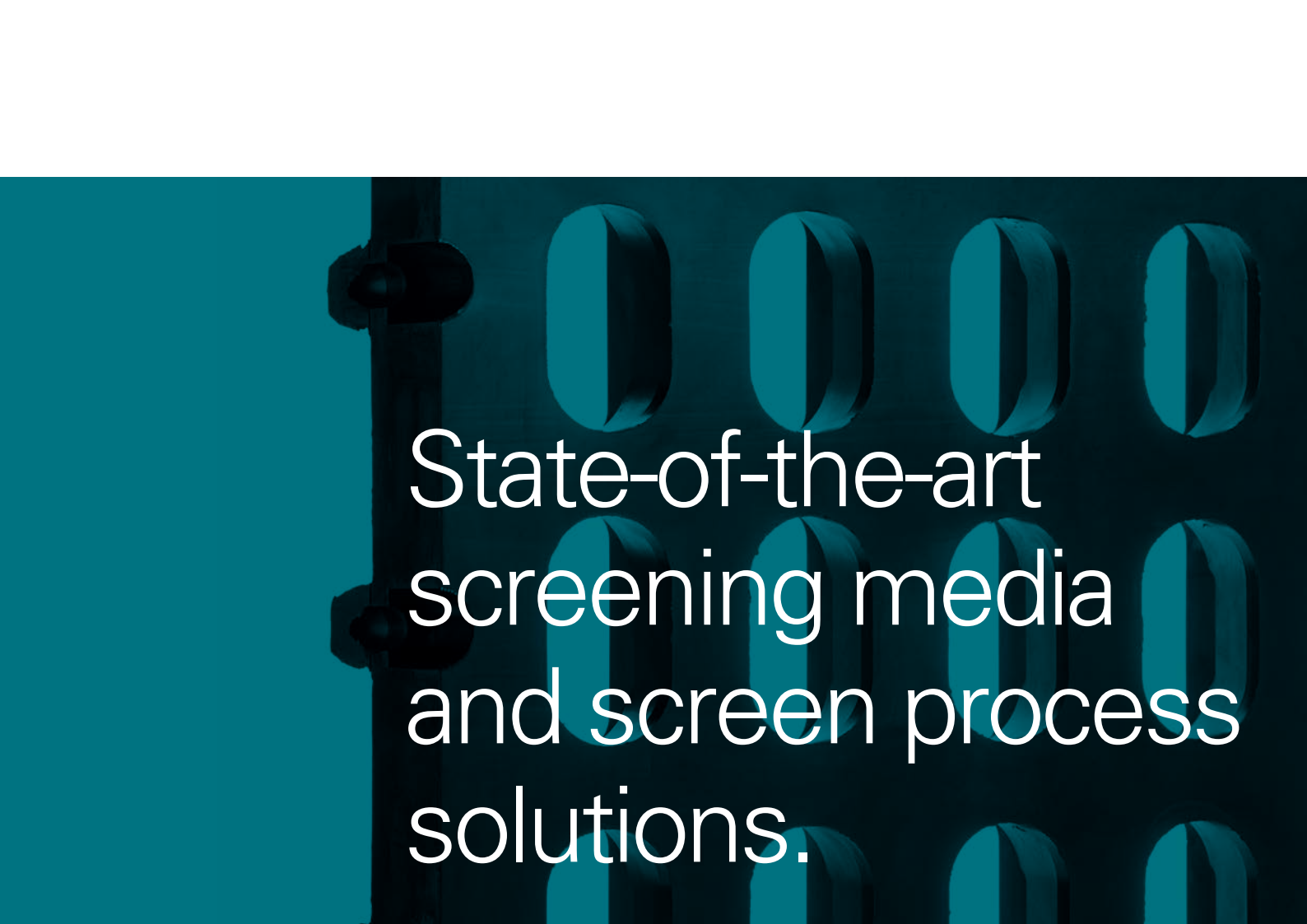
Exploration and preparatory work in mines requires outstanding technology and materials. Schenck Process solutions are used where others fail.

# Experience.

**Schenck Process offers applications and solutions such as:**

- » Screening and feeding systems
- » Train loading systems
- » Weighing solutions
- » Filtration solutions
- » Modular coal preparation plant design





# State-of-the-art screening media and screen process solutions.

Our highly skilled and experienced team provide on-site technical support during installation, shutdown and maintenance periods. This support optimizes your plant process performance while taking account of safety, budget and deadline constraints.

- » Process optimization through review of screen and panel performance and recommendations for deck and aperture selection
- » Audit of screen surfaces to identify abnormal wear patterns and providing corrective actions
- » Provision of product performance and development of customized solutions to suit individual customer requirements
- » Installation of new Screenex® systems and components
- » On-site technical support
- » Conversion of existing non-modular screening systems to our modular design
- » Our team are widely experienced in processing minerals such as iron ore, coal, gold, copper, nickel, diamonds, lithium or lead, to name but a few

# Certified.



Quality  
ISO 9001



Schenck Process is ISO9001:2008 certified and our designs and solutions are innovative and simple to use.

Utilizing state-of-the-art manufacturing processes, our modular polyurethane, rubber and wire panels are of the highest quality.

Our Screenex® panels offer the benefits of maximum wear resistance and accurate screening in a lightweight system designed to reduce maintenance whilst being easy to replace. Warranty is provided on all workmanship for Screenex® products.

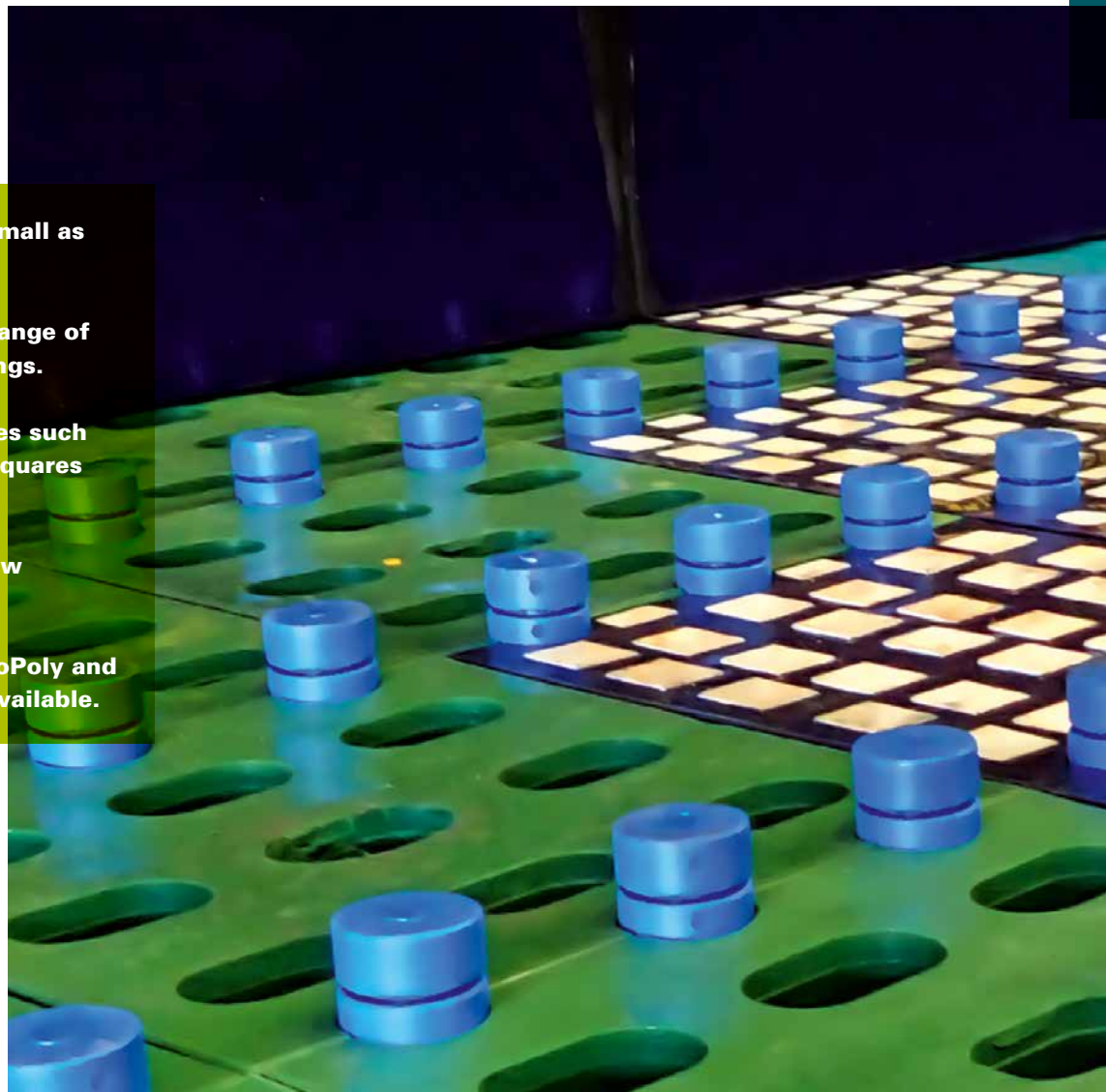


- » Screenex® polyurethane screen panels (PU)
- » Screenex® rubber screen panels (RU)
- » Screenex® flexi rubber screen panels (FRU)
- » Screenex® lightweight panels (LWP)
- » Screenex® flexi polyurethane (FPU)
- » Screenex® pyramid drain panels (PD)
- » Screenex® wedge drain panels (WD)
- » Screenex® bath drain panels (BD)
- » Screenex® rider bar ripple flow panels (patented, RBRF)
- » Screenex® rider bar panels (RB)
- » Screenex® deflector panels (DF)
- » Screenex® restricted flow – L type & diagonal weir panels (WP)
- » Screenex® trommel panels (TR)
- » Screenex® wedge wire panels (WW)
- » Screenex® woven wire panels (WR)
- » Screenex® sieve bends (SB)
- » Screenex® polyurethane cross-tension screen mats (PCTM)
- » Screenex® rubber cross-tension screen mats (RCTM)
- » Screenex® wear liners and wear components (WL)
- » Screenex® lightweight side liners (LWSL)
- » Screenex® hydrolysis-resistant polyurethane (HRP)

# The ultimate wear protection against abrasive materials.

## **SCREENEX® POLYURETHANE.**

- » Available in apertures as small as 0.1 mm and up to 240 mm.
- » Available in an extensive range of panel thicknesses and fixings.
- » Available in aperture shapes such as slots, staggered slots, squares and VRs.
- » Weirs, rider bars, ripple flow and diverters available.
- » Standard, flexible poly, EcoPoly and hydrolysis-resistant poly available.



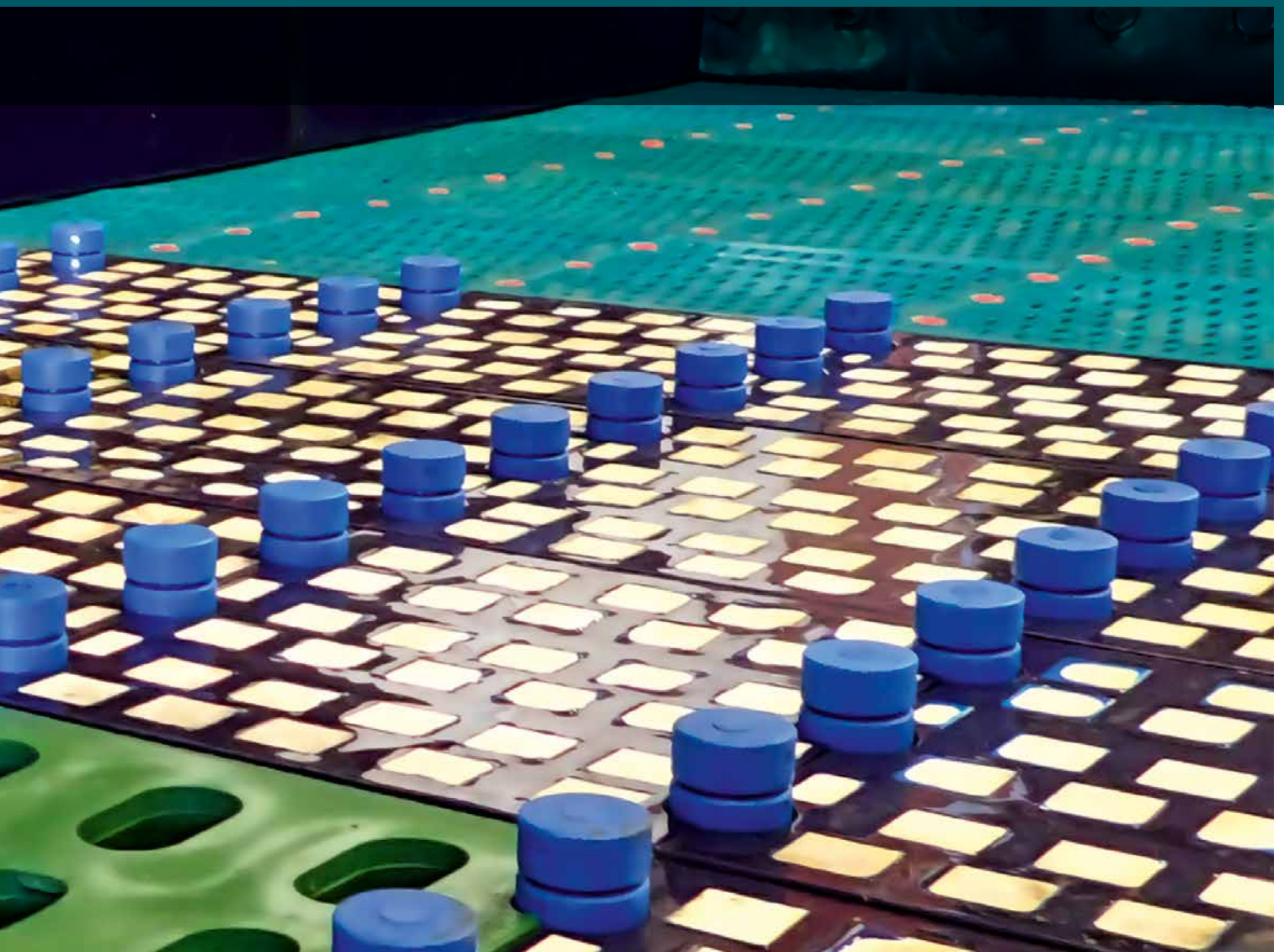


## **SCREENEX® POLYURETHANE.**

Our injection molded polyurethane panels offer unparalleled wear resistance and efficiency for your screening application. All polyurethane blends have been carefully selected after extensive testing to bring you the highest quality products in the market. Coupled with state-the-art injection molding technology and precision engineered tooling, Screenex® polyurethane panels set standards in the screening media industry.

Our injection molding technology means our polyurethane panels can be completely customized to your needs. Aperture type and size, panel thickness, panel fixing and external panel dimensions can be specified. We are able to incorporate a variety of surface features to improve your screening efficiency including weirs, rider bars, ripple flow and diverters.

The polyurethane panels come in our standard hardness, soft flexible polyurethane, our environmentally conscious EcoPoly and in our HRP hydrolysis-resistant blend.

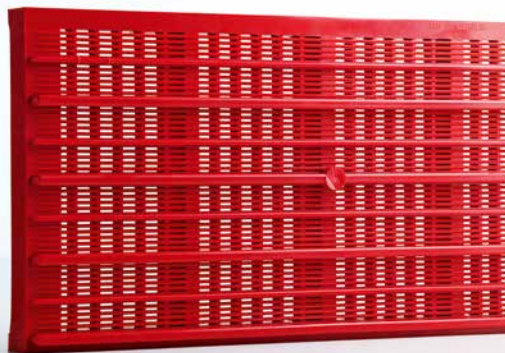


# Screenex<sup>®</sup> polyurethane.



## **Sieve bends**

Screenex<sup>®</sup> offers a complete range of standard and customized sieve bends and static screen panels to suit our customers' requirements. Manufactured from high abrasive polyurethane and injection molded elements to provide accurate aperture size. Available in one piece or modular curved and static cradle.



## **Rider bar ripple flow panels (patented)**

Reduce your panel wear and increase your screening efficiency at the same time with our patented rider bar ripple flow panels.



## **Ceramic panels**

Screenex<sup>®</sup> ceramic tiles are manufactured using specially designed alumina ceramic tiles embedded in polyurethane. The ceramic tiles offer the highest wear resistance to abrasion and the poly tiles provide flex and absorb impact in the harshest of environments.

### **Polyurethane screen panels**

Screenex® injection molded polyurethane panels are the industry standard. High quality material and highly accurate aperture sizing. Only the best for your process.

### **Rider bar panels**

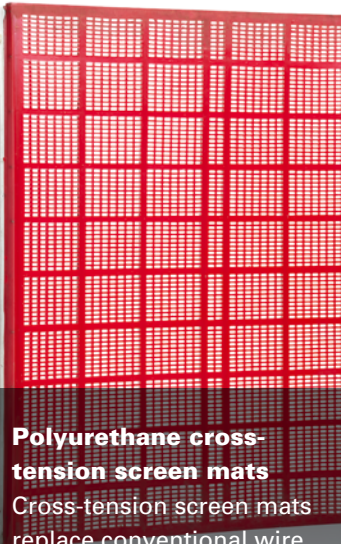
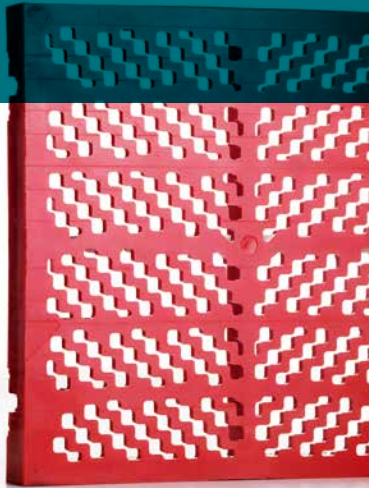
Rider bar panels improve wear resistance by reducing the amount of oversize particles contacting the aperture surface.

### **Bath drain panels (BD)**

Our bath drain panel ensures maximum recovery of heavy media in your process plant.

### **Wedge drain panels**

Designed with a raised surface for superior dewatering, drainage and stratification.



### **Pyramid drain panel (PD)**

The pyramid drain panel increases the available area of the screening media through the use of its raised pyramid design. It agitates the compacted bed with each stroke of the screen. This agitation "cracks" the bed and allows any trapped water to rapidly drain through the deck.

### **Deflector panels**

Deflectors are raised sections incorporated into the top surface of the panel designed to reduce material tracking down blank screen areas, thus improving your screening efficiency.

### **Polyurethane cross-tension screen mats**

Cross-tension screen mats replace conventional wire and punched plate systems. Specifically designed to satisfy our customers' individual requirements.

### **Restricted flow – L type & diagonal weir panels**

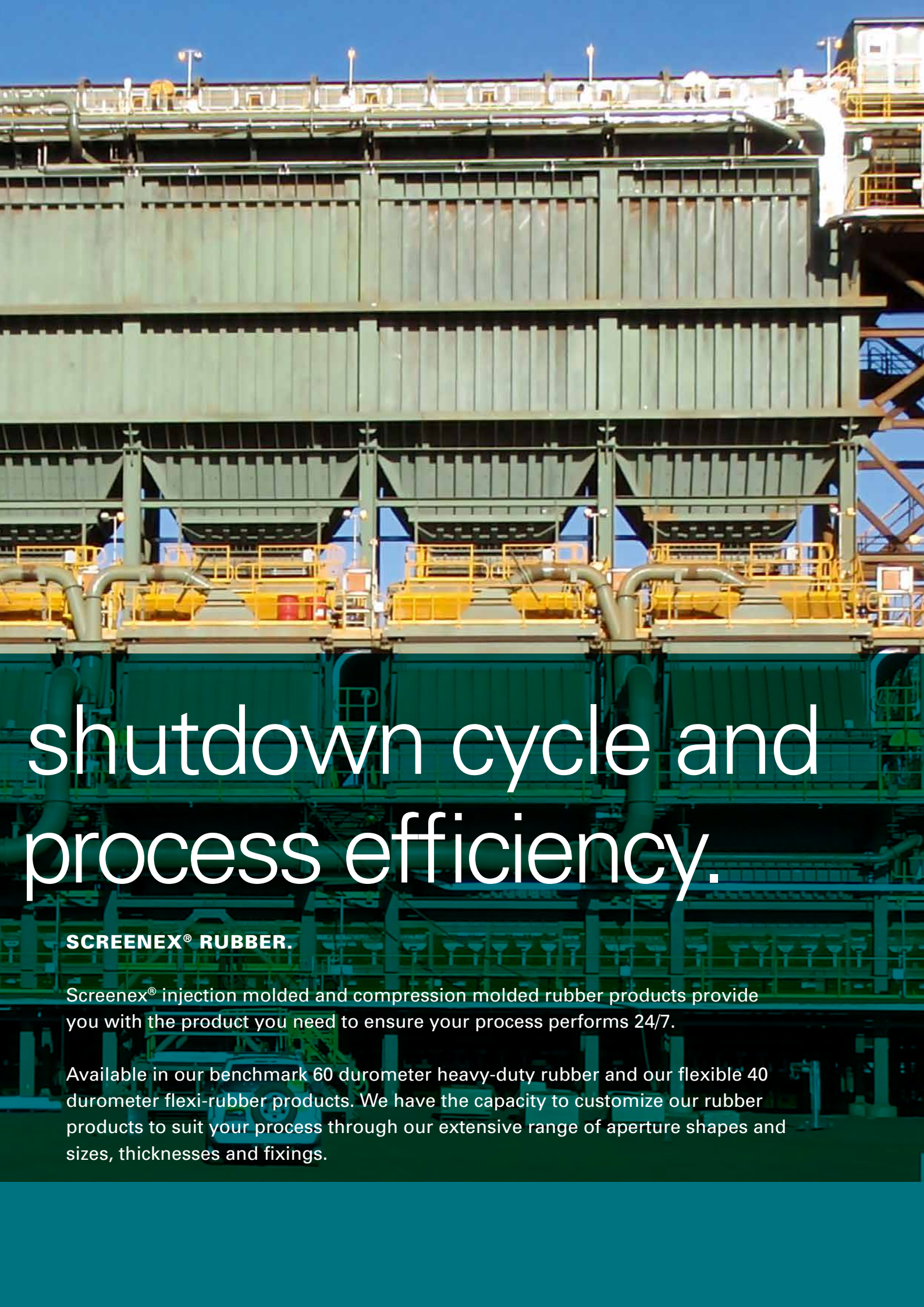
L shaped weirs can be incorporated into a panel to reduce product velocity to maximize the probability of particles passing through the apertures. Diagonal weir panels are also available to address feed presentation issues and redistribute feed evenly across the screen.

## SCREENEX® RUBBER.

- » Screenex® injection molded heavy-duty rubber – maximum service life.
- » Screenex® flexi-rubber – the best solution for sticky/high-moisture ore processing.
- » Available in apertures from 0.8 mm – 250 mm in size.



Extend your  
improve your



# shutdown cycle and process efficiency.

## **SCREENEX® RUBBER.**

Screenex® injection molded and compression molded rubber products provide you with the product you need to ensure your process performs 24/7.

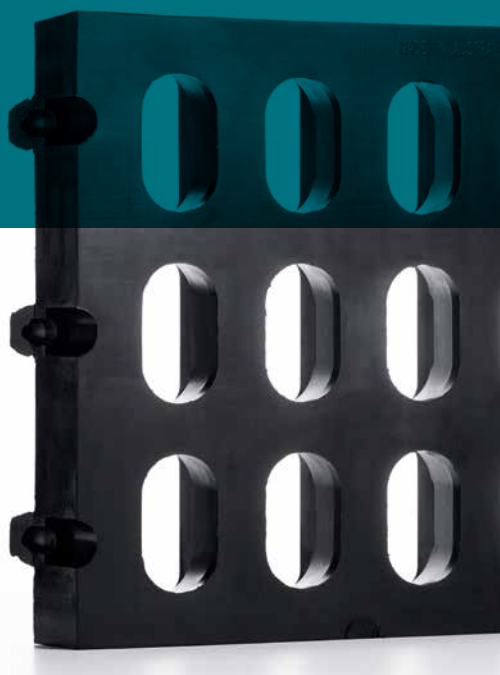
Available in our benchmark 60 durometer heavy-duty rubber and our flexible 40 durometer flexi-rubber products. We have the capacity to customize our rubber products to suit your process through our extensive range of aperture shapes and sizes, thicknesses and fixings.

Screenex<sup>®</sup>  
rubber.



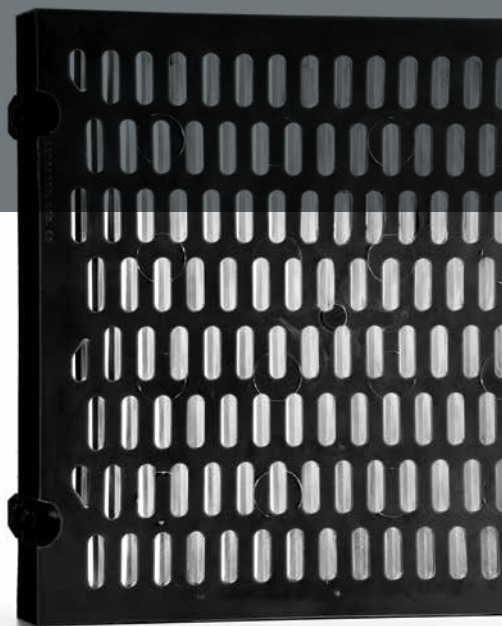
### Heavy-duty rubber panels

Maximum service life for your process. Available in an extensive range of aperture shapes and sizes, thicknesses and fixings.



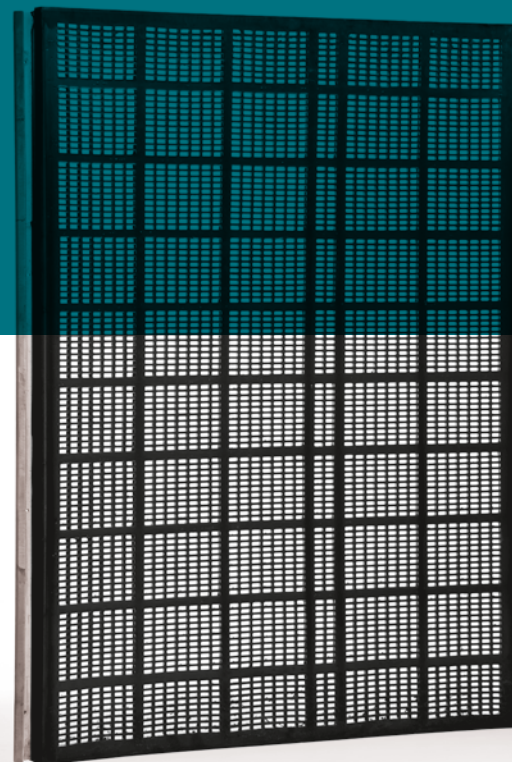
### Flexi-rubber screen panels

Our flexi-rubber has been proven to stay clean and free of build-up in even the stickiest of applications.



### Rubber cross-tension screen mats

The use of rubber cross-tension mats reduces noise and blockage and offers exceptional wear capabilities.



Heavy-duty rubber panels provide maximum wear protection even in the harshest environments. Our heavy-duty rubber panels have been proven to provide maximum protection against wear from large boulder-type feed impacting at rates of over 3,000 tonnes per hour.

Flexi-rubber screen panels are designed to handle problematic 'damp' process streams with ease. Our self-cleaning flexi-rubber screen panels ensure your entire screening surface stays free of blinding and material build-up, thus sustaining your screening efficiency and saving you money. Screenex® flexi-rubber screen panels give you the peace of mind that your process is performing efficiently around the clock.

# Screenex<sup>®</sup> apertures. Assured separation.

## **SCREENEX<sup>®</sup> OPENINGS.**

The openings or apertures on a Screenex<sup>®</sup> screen panel ensure efficient separation of material by size in your screening process.

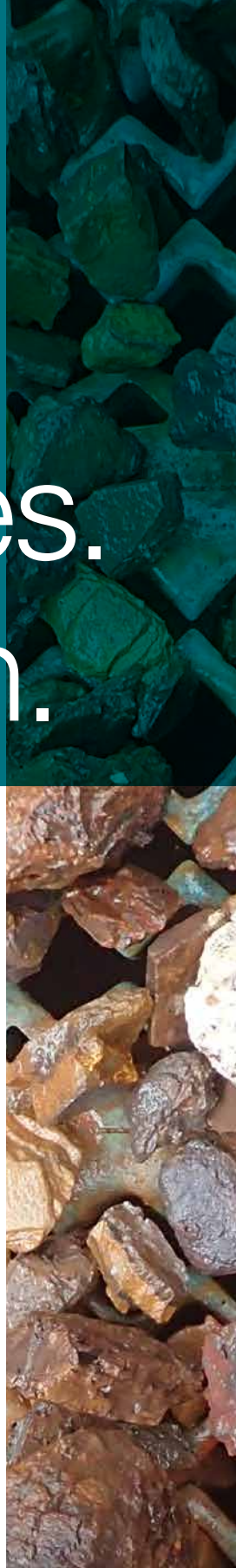
Aperture selection, being the size, shape and quantity of apertures per panel, is the foundation of your screening efficiency. Screenex<sup>®</sup> manufactures an extensive range of aperture sizes and shapes tailored to your ore type.

Take our patented slotted VR (variable relief) panel, for example. This panel can increase the capacity of your machine through rapid removal of fines. When combined with our PipeTop rail, the slotted VR offers unparalleled efficiency in the screening of granular material.

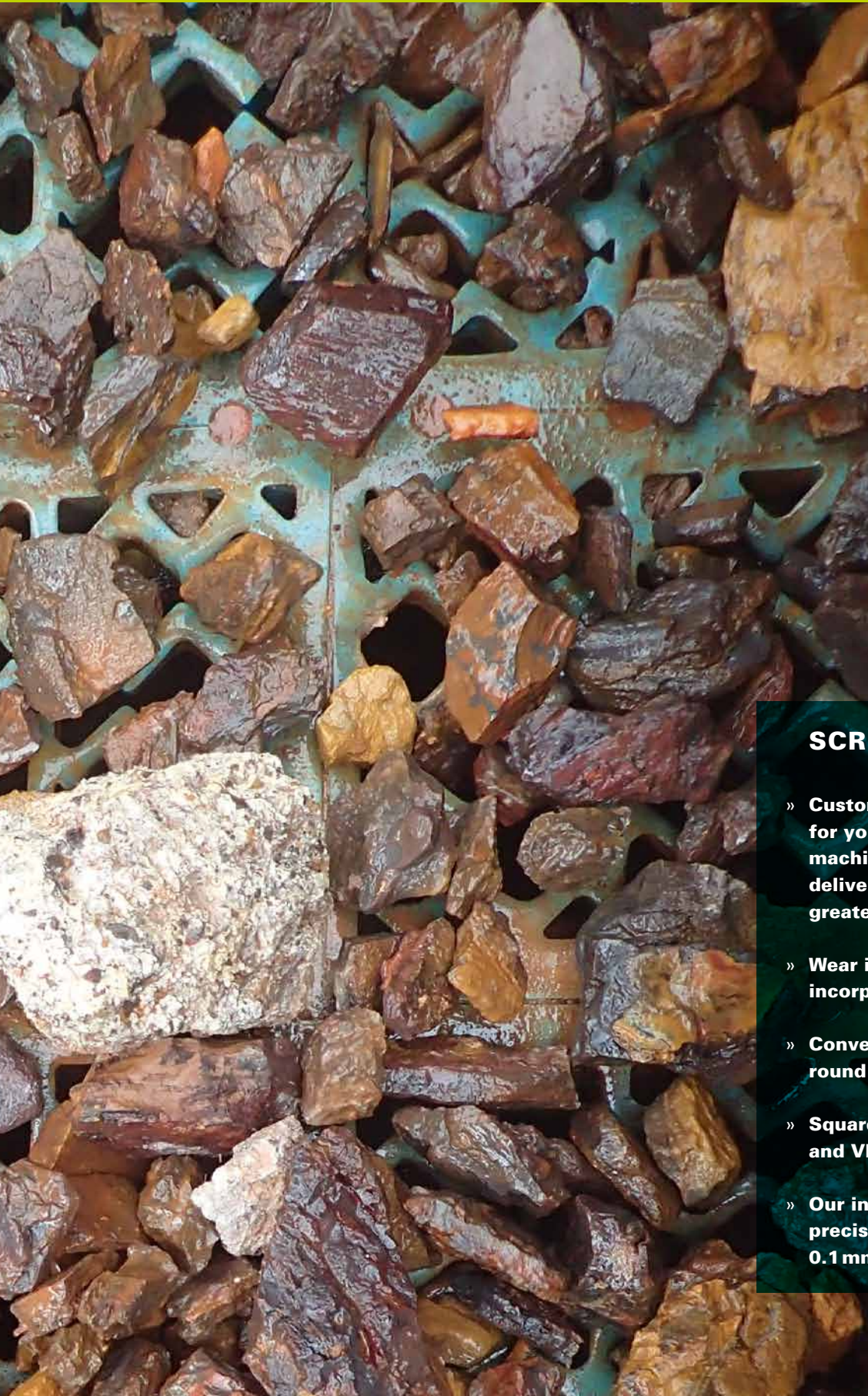
The zig-zag aperture design of our square VR (variable relief) aperture produces a 'spring-like' vibrating action that keeps material moving through the screen without getting stuck. The square VR eliminates pegging and fines carry over at the source.

Another feature that can be included with our extensive aperture range is our patented shape-changing wear indicator which provides easy identification of when a panel has worn to a predetermined thickness. This feature ensures panel change-out decisions are made at the right time.

Our conventional slotted apertures provide a means of increasing the open area of your screen while our square apertures provide an accurate cut at a precise size. Aperture sizes can be specified by the customer. Whatever your application, we can customize a panel to suit your needs.







## **SCREENEX® OPENINGS.**

- » **Customized aperture configurations for your screen to ensure that your machine performs at its best and delivers more tonnes at the greatest efficiency.**
- » **Wear indicator features can be incorporated into apertures.**
- » **Conventional slotted, square and round apertures.**
- » **Square VR and patented slotted VR and VRX designs also available.**
- » **Our injection molded apertures are precise and can be made as fine as 0.1 mm in size.**

# Screenex<sup>®</sup> openings.

## Slots and squares

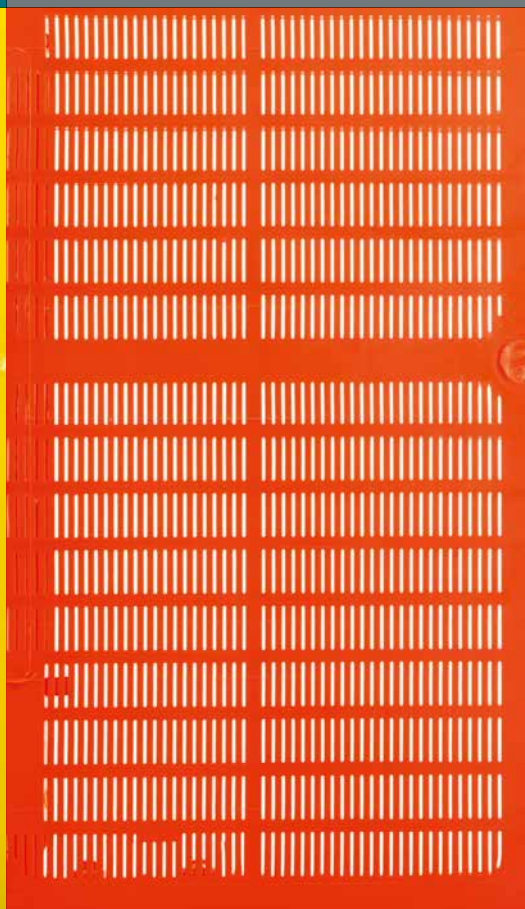
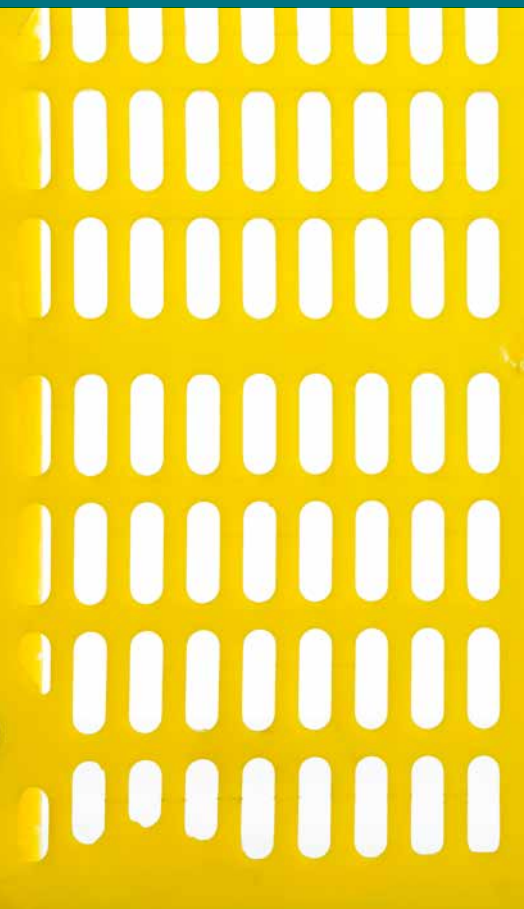
Slots and squares greater than 3mm in width are our most common aperture style. We can provide openings from 3mm to 220mm. We can supply a screen deck to meet all applications and material specifications.

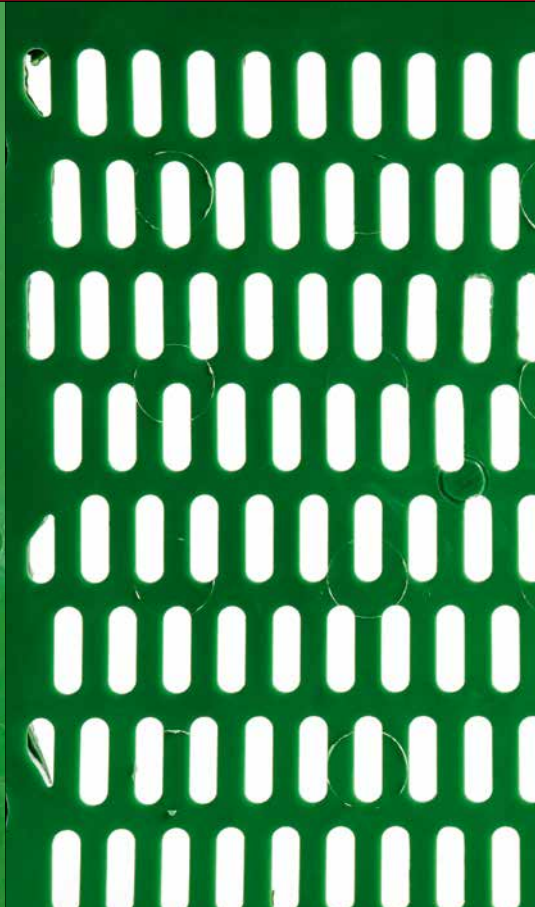
## Fine slots

Our injection molding technology ensures we provide the best fine aperture panels in the market, manufactured to a repeatable specification at a competitive price.

## VR and VRX

Our innovative VR design helps to minimize or eliminate pegging by producing a flexing action in the solid sections to keep material moving through the screen apertures without getting trapped. We have more than 100 different configurations and opening sizes in our VR designs.





#### **Slotted VR**

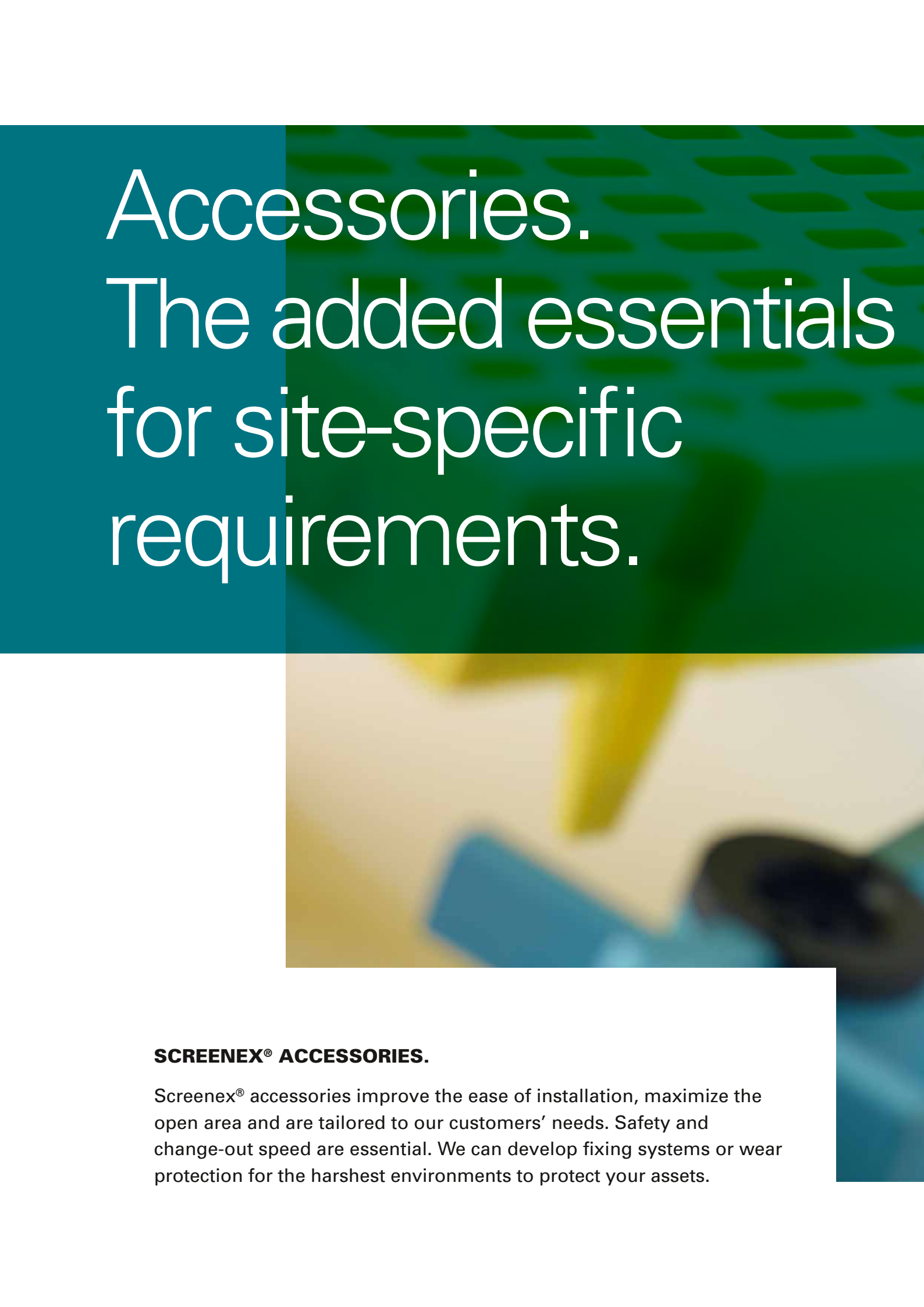
Our slotted VR offers maximum efficiency through its patented unique aperture design. Derived from the square VR, this panel offers all the non-pegging benefits of a VR with the addition of exceptional fines removal. It is best suited to granular feed types.

#### **Solid impact**

Also known as solid or blank panels, they are typically used at the feed and discharge ends of a screen. Manufactured from either polyurethane or heavy-duty rubber, their modular construction and heavy-duty design makes them well-suited to areas of extreme loading or feed velocity. Screenex® can supply these with a variety of surface features customized to your process.

#### **Staggered apertures**

For many applications our staggered aperture panels offer increased service life and efficiency by reducing tracking of material. This in turn ensures more cost-effective screening solutions.



# Accessories. The added essentials for site-specific requirements.

## **SCREENEX® ACCESSORIES.**

Screenex® accessories improve the ease of installation, maximize the open area and are tailored to our customers' needs. Safety and change-out speed are essential. We can develop fixing systems or wear protection for the harshest environments to protect your assets.



## **SCREENEX® ACCESSORIES.**

- » **Spray nozzles (including quick clearing)**
- » **Side liner fixing wedges**
- » **Stainless steel wedge brackets**
- » **Double- and triple-deck systems**
- » **Polyurethane rail cover strips**
- » **Dust suppression cloth and capping**
- » **Crusher backing**

# Screenex<sup>®</sup> accessories.

Side protection bars



Fixings



Fixing pins



Panel removal tool



Winged rail cover



Aperture measuring gauge



Polysnap fixing



Heavy-duty knock-through pin (HDK)



**Lightweight side liners**



**Polysnap hold-down bar**



**PipeTop rails**



**Huck bolt protector**



**Rail protection strips**



**Clipex (CP) fixing**



**Fixing pins**



**Heavy-duty rail protection**



**Spray nozzles**



**Fixings**



**Spray bar protectors**



**Spray bar extensions**





Customers continually challenge us to improve their throughput, quality and efficiency, while also controlling costs. As a market leader in providing screening media solutions, one of our unique strengths is our tradition of providing innovative solutions. With this in mind, Schenck Process is devoted to continually developing new and improved products and systems. Our dedicated in-house engineering department designs all new tools and prototypes new products to ensure that these solutions meet the quality, cost, and service life requirements our customers want.

# Process perfection.



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