

SCREENPRODUCTS

INTERSTAGE SCREENING SOLUTIONS

Precision Wedge Wire Technology



UNIT 24, LAGUNA SECA, 43 LEE BARNES BOULEVARD, BALLITO, 4420

www.screenproducts.co.za | sales@screenproducts.co.za

About US :

Improving Gold Recovery • Reducing Carbon Losses • Maximising Plant Availability

ScreenProducts offers a wide range of screening, filtration, and separation media specifically designed for materials handling in the mining, quarries, & waste processing industries.

Our screening products, which include interstage screens, wedge-wire baskets, cylinders, countersunk perforations, & rotary drums (including paper drum mesh),

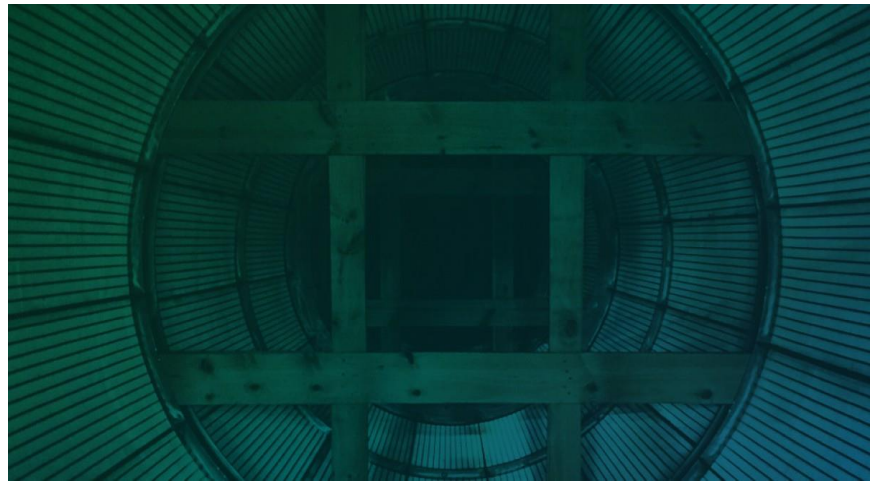
INDUSTRY SPECIALISTS

ScreenProducts designs and manufactures premium wedge wire screening solutions for:

- Gold Mining
- Mineral Processing
- Water Treatment
- Coal Processing
- Industrial Filtration

CORE CAPABILITIES

- Interstage Screens
- Carbon Retention Screens
- Elution Column Screens
- DSM Screens
- Static Screens
- Rotary Drum Screens
- Custom Wedge Wire Solutions



COMMON PLANT ISSUES

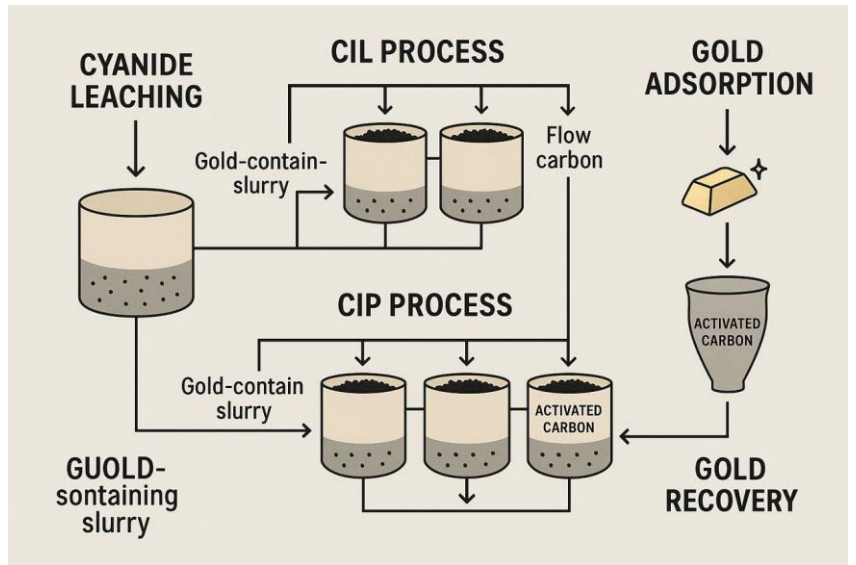
Plants regularly experience:

- Activated carbon losses
- Reduced gold adsorption
- Screen failures
- Excessive maintenance downtime
- Carbon carry-over
- Process inefficiencies

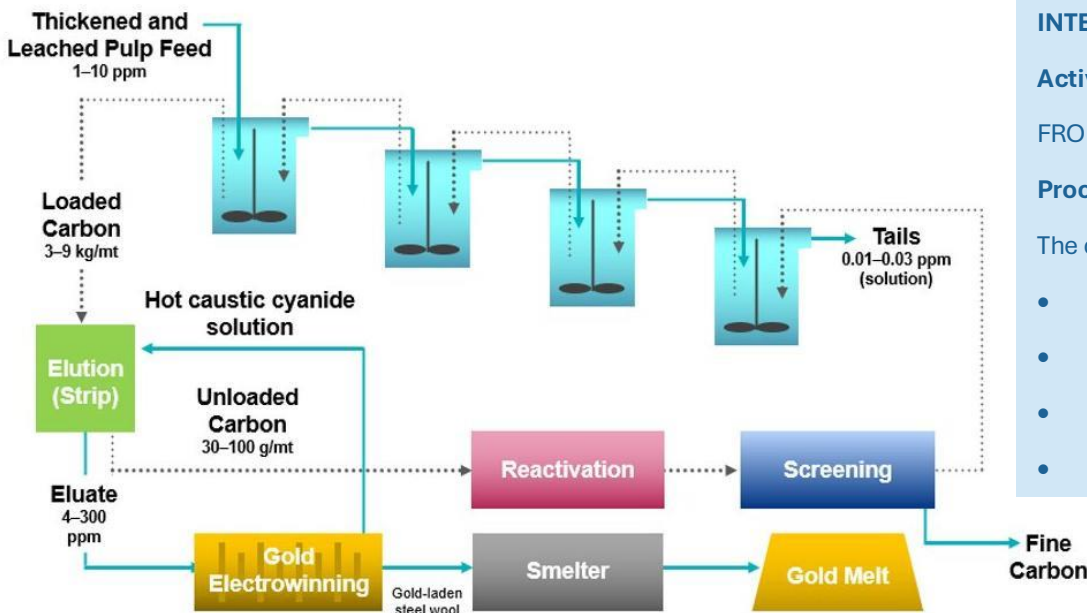
IMPACT

Even small carbon losses can result in:

- Lost gold recovery
- Increased operating costs
- Reduced plant performance



Interstage screens are critical control points that retain activated carbon while allowing slurry transfer.



INTERSTAGE SCREENS SEPARATE:

Activated Carbon

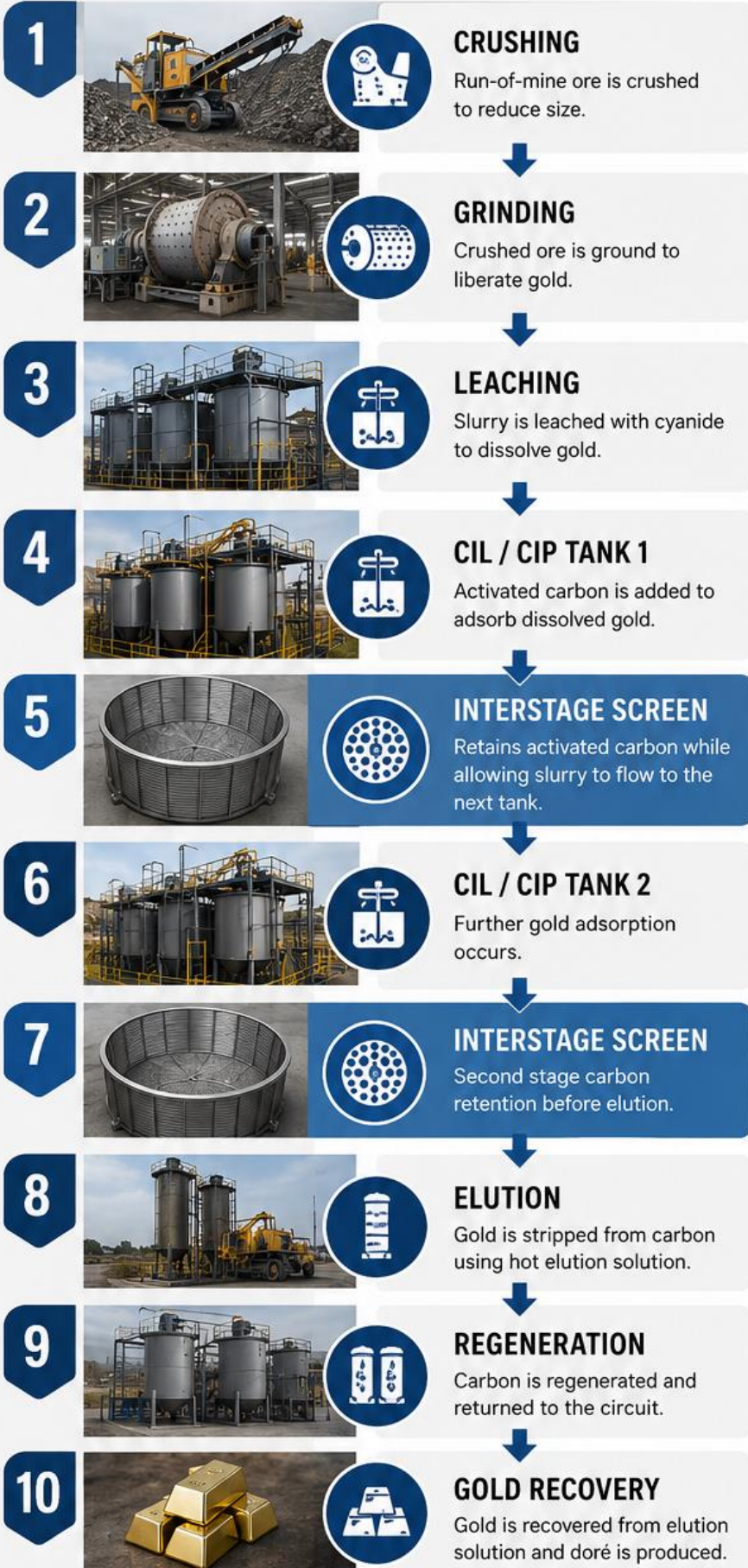
FROM

Process Slurry

The objective is:

- Maximum carbon retention
- Free slurry flow
- Reduced carbon losses
- Increased gold recovery





PROCESS OVERVIEW

In a Carbon-in-Leach (CIL) or Carbon-in-Pulp (CIP) circuit, interstage screens are critical for retaining activated carbon in the adsorption tanks while allowing slurry to flow to the next stage. This maximises gold recovery and reduces carbon losses.

KEY BENEFITS

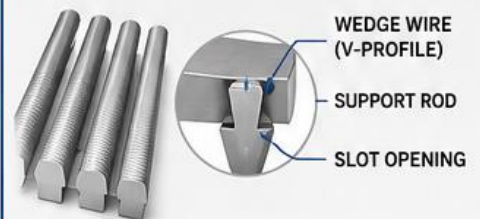
- ✓ Maximise carbon retention
- ✓ Reduce carbon losses
- ✓ Improve gold recovery
- ✓ Protect downstream equipment
- ✓ Increase plant efficiency
- ✓ Reduce maintenance
- ✓ Longer screen life

INTERSTAGE SCREEN SOLUTIONS

Precision Wedge Wire Screens engineered for optimum performance and reliability.



WEDGE WIRE TECHNOLOGY



High open area, precise slot openings and self-cleaning profile ensure superior performance and long service life.



PRODUCT FEATURES

Feature	Benefit
Precision Slots	Superior carbon retention
High Open Area	Improved flow
Stainless Steel Construction	Corrosion resistance
Robust Design	Extended life
Custom Engineering	Perfect plant fit

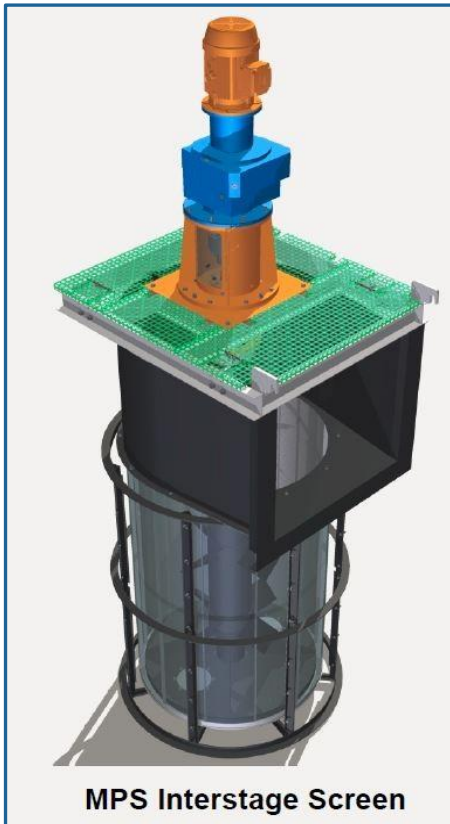
TYPICAL SCREEN PARAMETERS

Custom Manufactured To Client Specifications

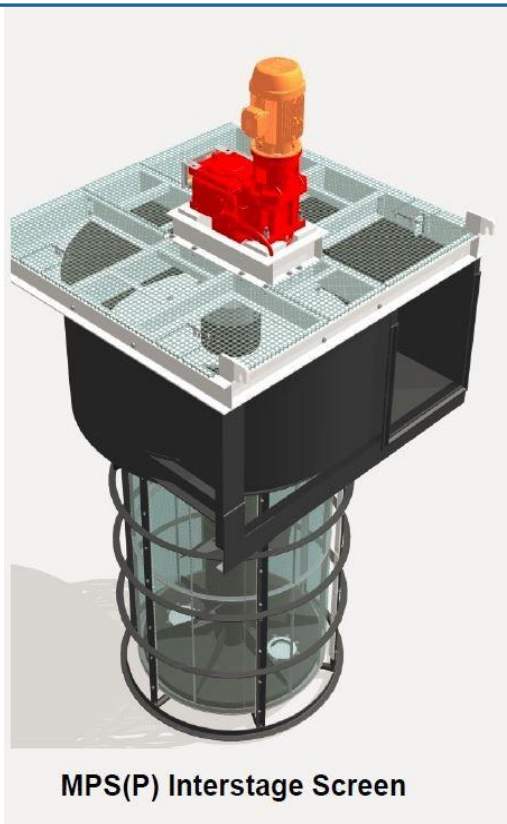
Parameter	Range
Slot Size	0.25mm – 2.50mm
Material	SS304 / SS316 / Duplex
Diameter	Custom
Open Area	Up to 70%
Surface Finish	Process Specific
Construction	Welded Wedge Wire

Typical Applications

- Carbon-in-Pulp Plants
- Carbon-in-Leach Plants
- Elution Columns
- Acid Wash Columns
- Carbon Safety Screens



MPS Interstage Screen



MPS(P) Interstage Screen



GOLD RECOVERY PLANT UPGRADE

Challenge

- High carbon losses
- Frequent maintenance
- Excessive downtime

Solution

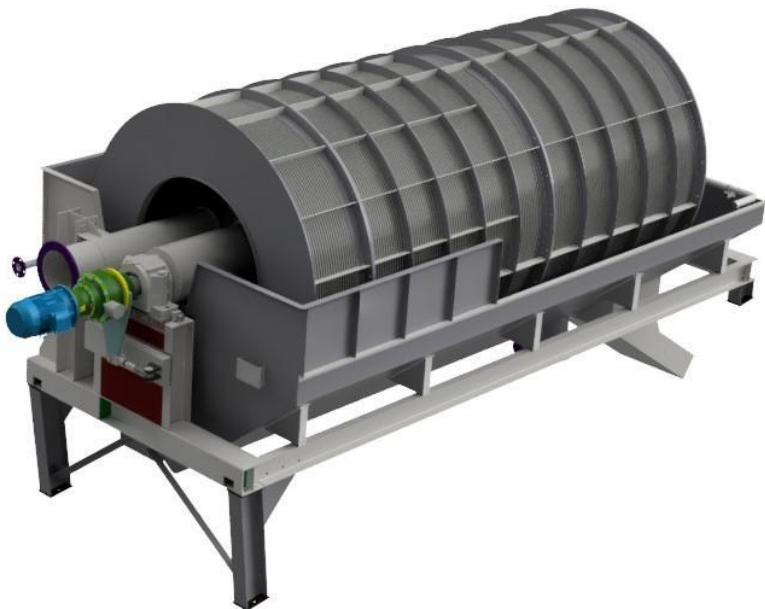
Replacement of existing screening media with ScreenProducts precision wedge wire interstage screens.

Results

- Improved carbon retention
- Reduced maintenance frequency
- Increased screen lifespan
- Reduced downtime
- Improved plant efficiency

Note

Replace with actual client project once available.



FINANCIAL BENEFITS

Key Message

The cost of lost carbon often exceeds the cost of premium screening solutions.

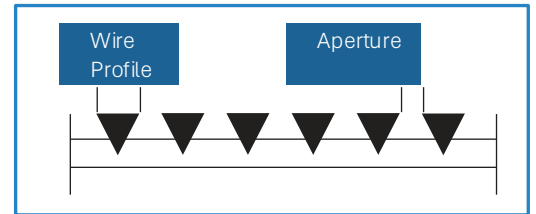
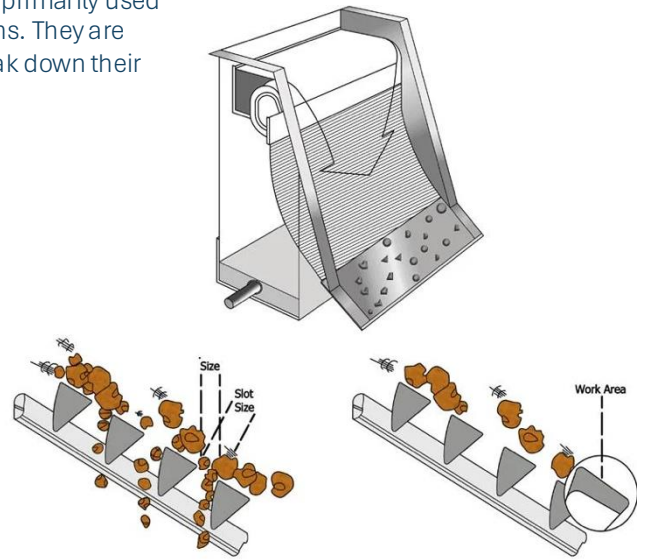
Area	Savings
Carbon Loss Reduction	Direct recovery improvement
Reduced Downtime	Increased throughput
Longer Screen Life	Lower replacement costs
Improved Gold Recovery	Increased revenue
Lower Maintenance	Reduced labour costs



SIEVE BENDS / DSM SCREENS :

Sieve Bends (DSM Screens or Curve Screens) are curved wedge wire screens primarily used for dewatering, classifying, and separating solids from liquids or slurry streams. They are widely used in industries where liquid-solid separation is essential. Let's break down their applications by Industries:

INDUSTRY	APPLICATIONS
Mining & Minerals	<ul style="list-style-type: none"> - Dewatering slurries (coal, iron ore, gold, phosphate) - Classification of fine particles - Desliming (removing fines from slurry)
Pulp & Paper	<ul style="list-style-type: none"> - Fibre recovery from white water - Dewatering paper pulp - Screening recycled paper streams
Food & Beverage	<ul style="list-style-type: none"> - Starch separation (e.g., potato, corn) - Dewatering food processing waste (vegetables, fruits)
Sugar Industry	<ul style="list-style-type: none"> - Removal of bagasse or fibres from sugar juice - Dewatering sugar mud
Chemical Processing	<ul style="list-style-type: none"> - Separation of chemical slurries - Dewatering and classification in chemical processing
Wastewater Treatment	<ul style="list-style-type: none"> - Screening solids from industrial wastewater - Primary and secondary treatment stages
Coal Preparation Plants	<ul style="list-style-type: none"> - Dewatering fine coal - Recovery of coal fines in flotation circuits



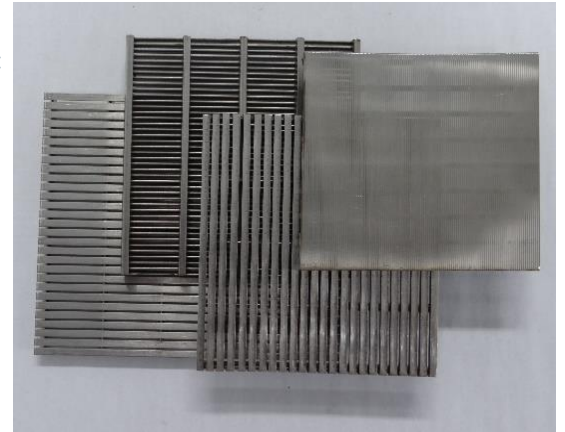
WEDGE WIRE

Wedge wire provides a unique combination of two very important features: mechanical strength and aperture efficiency. It can be easily rolled, bent, and welded. Accurate apertures can be achieved with wedge wire together with the strength required to carry heavy loads.

Apertures are available from 0.1mm up to 15mm and in a variety of profiles.

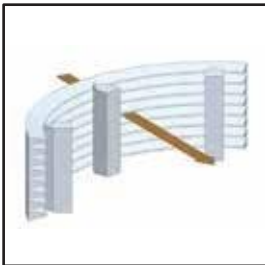
ScreenProducts offers a variety of Wedge Wire Designs, including the following:

- Flat Sheets
- Sieve Bends
- Cylinders
- Candle Filters
- Waste Well Screens
- Laterals
- Elements
- Baskets

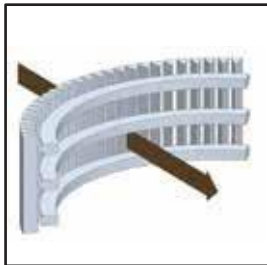


Available Materials include SS430 / SS304 / SS316 / SS31L

FLOW TYPES AVAILABLE :



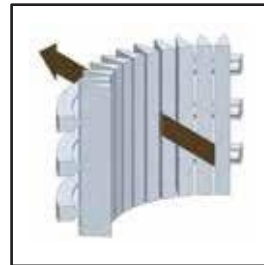
Standard Construction



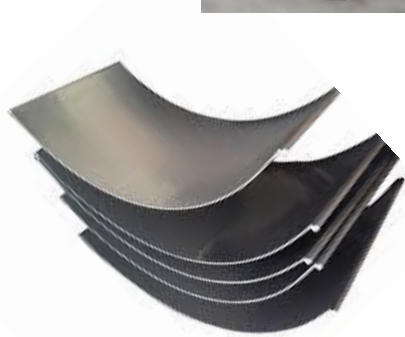
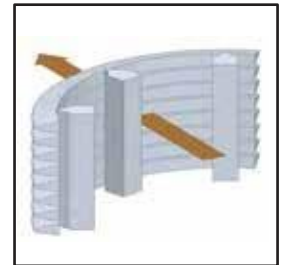
Axial Wire Construction

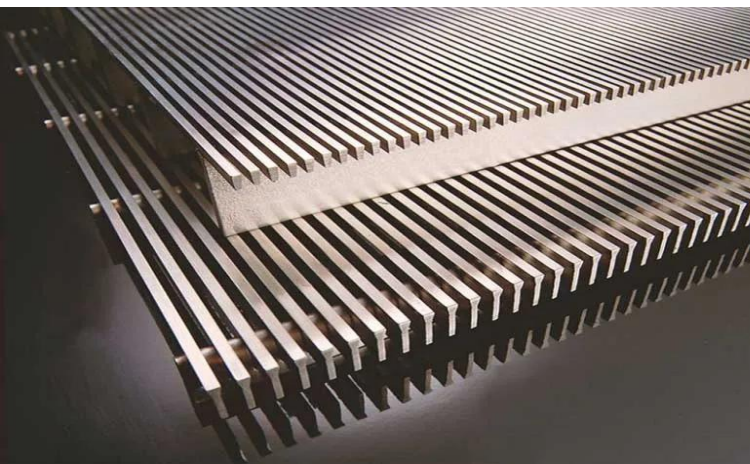
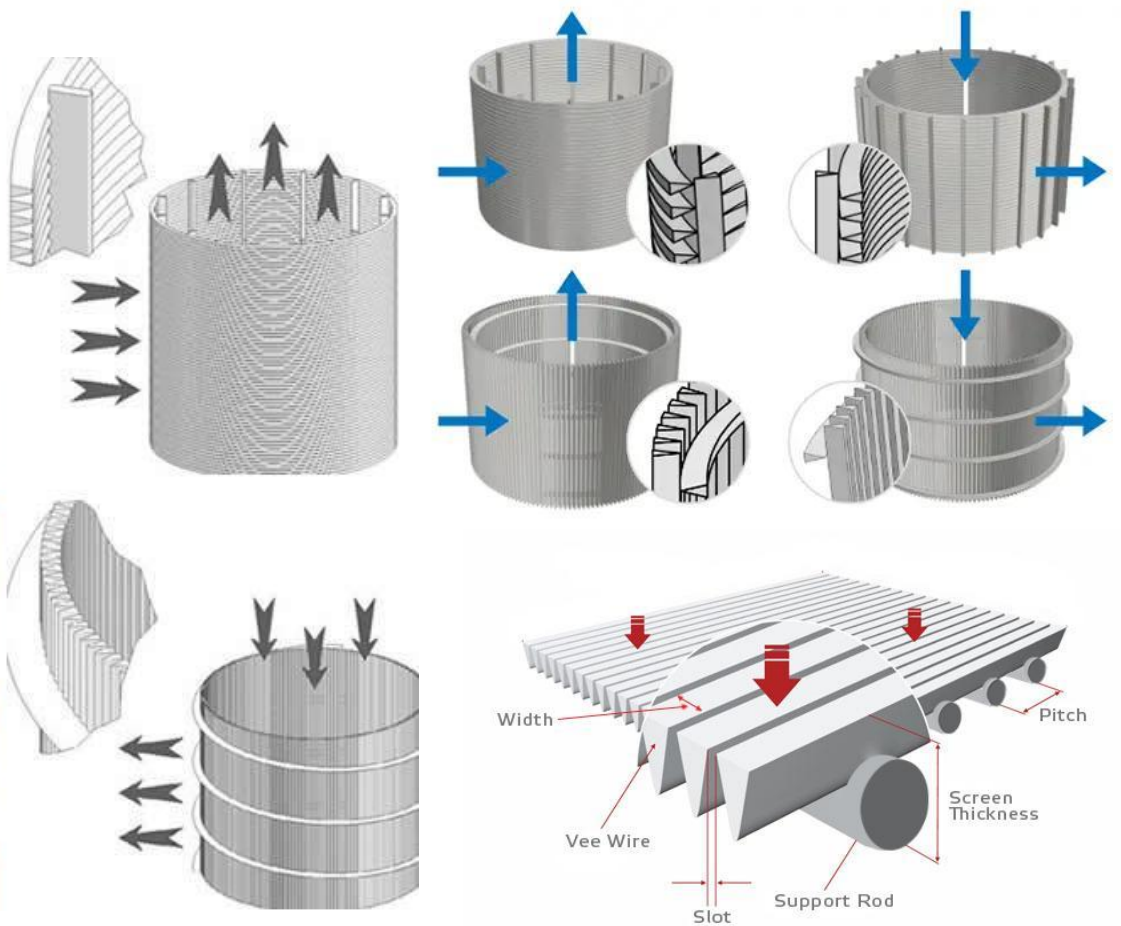
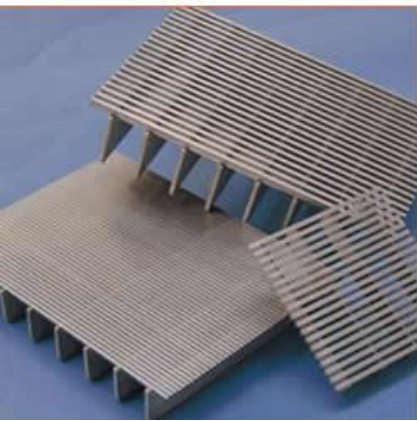
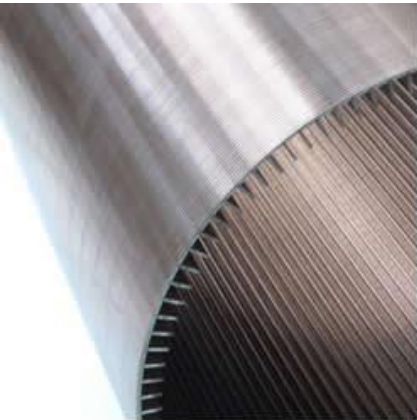
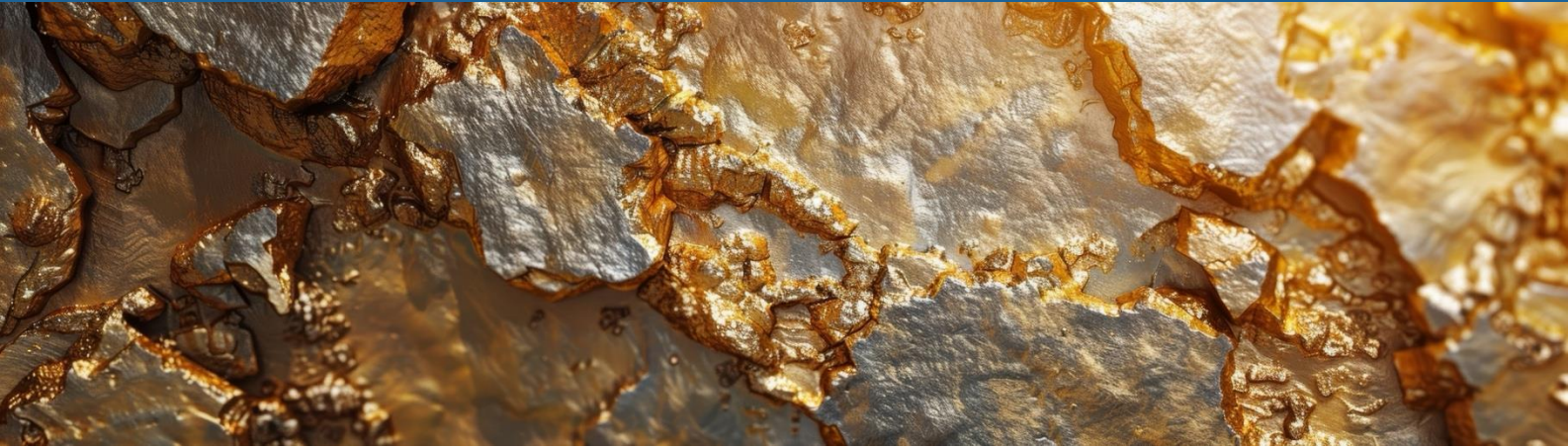


Internal Circumferential Wire Construction



Internal Axial Wire Construction





SCREENPRODUCTS

BUILT TO PERFORM | ENGINEERED FOR RELIABILITY | DELIVERED WITH PRIDE



DERRICK COCHRANE

OPERATIONS DIRECTOR

082 456 7890

derrick@screenproducts.co.za



JASON KINNEAR

TECHNICAL DIRECTOR

083 456 7891

jason@screenproducts.co.za



www.screenproducts.co.za