

# GLOBALLY ADVANCING **SCREEN MEDIA** — TECHNOLOGIES —



**MAJOR**<sup>®</sup>

SINCE 1884

MAJOR WIRE INDUSTRIES LIMITED



## MAJOR WIRE

### **Maximizing Screening Performance**

Major Wire's advanced screen media technologies, products and technical support are assisting mining, aggregate, recycle, and industrial operations all over the world to produce more highly valued product at less cost through better screening efficiency.

Founded in Montreal, Canada in 1884, Major Wire has continued to pioneer Flex-Mat<sup>®</sup> screen media that's been proven in more than 25,000 applications worldwide since its introduction in 1996. Flex-Mat technology uniquely and significantly increases production on screens set up with either hooked woven wire mesh or modular polyurethane and rubber screen media.

### **Creating Greater Screening Action**

Flex-Mat creates more screening action on each screen deck due to its distinctive polyurethane strips that firmly bond



individual non-woven wires to maintain tight specifications while allowing them to vibrate independently at different frequencies.

### **Expanding Production 3 Ways**

Through Major Wire's advances in its Flex-Mat technology, customers experience up to a 40% or more increase in production due to its self-cleaning capability, greater open area, increased wear life and precise passing of the vibrating wires. Given the increased action of the material on the screen and its success in removing fines, some operations can even eliminate their washing operation.

### **Producing A Better Wire — OptimumWire®**

Major Wire has also pioneered the most productive wire technology that is used in both Flex-Mat and its woven wire mesh product lines. Its unique combination of metallurgical properties and the production process most often results in the longest wear life within the wire screen media industry.



## MAJOR WIRE

### Combining Real Solutions With Strong Support

Major Wire's global expansion success is the result of 3 steadfast commitments—offering high-performance screen media, local authorized representation and factory-direct application assistance. Our goal is to continuously assist customers in exceeding their production goals.

- Local **Major Wire Authorized Dealers** with certified training and expertise to analyze, recommend and implement solutions. In addition, they can use the following Major Wire programs:
- Global manufacturing & **Regional Certified Finishing Facilities** for customization & faster delivery
- Local general audience and customer-specific **Screen Maintenance Seminars** to educate plant operators on screening problems & proven solutions





### Screening Plant Audits



- On-site **Screening Plant Audits** to identify specific issues impacting production & recommend solutions through a timely, detailed report
- **Results Guaranteed Program** to remove risk for new customers or applications

Major Wire continues to expand its production facilities in Canada, the U.S. and China as well as several Authorized Dealer Certified Finishing Facilities to support its independent regional dealers and direct assistance to customers. Further support globally is provided through an alliance with Germany-based Haver & Boecker that has facilities across the world including Europe, Brazil, Chile, India and Russia.



# **FLEX-MAT<sup>®</sup> 3**

**Tensioned**

## **Flex-Mat<sup>®</sup> 3 High-Performance Screen Media's**

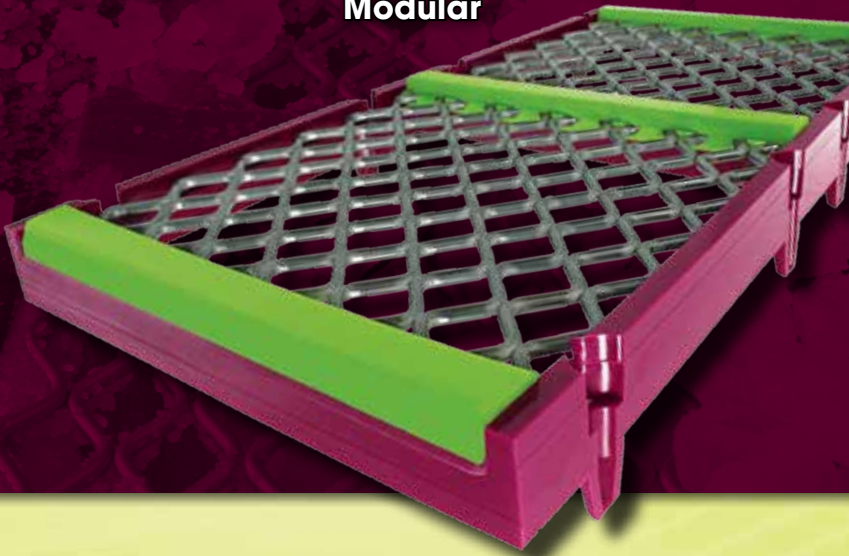
undeniable success has been proven in more than 25,000 applications around the world in a wide range of screening challenges. These include precious minerals, potash, iron ore, basalt, phosphate, coal, salt, aggregate, limestone, fertilizer, recycle and slag. Flex-Mat 3 is available in highly abrasion-resistant OptimumWire<sup>®</sup> or stainless steel.

Flex-Mat 3's success with so many customers and applications has led to many operations replacing all or most of their screen media on all decks due to its precise passing, increased volume and impact on reducing their cost of operation.

## **Flex-Mat 3 Tensioned**

- Self-cleaning capability virtually eliminates blinding, pegging and clogging
- Independently vibrating wires increase throughput up to 40% with its screening action
- Precise passing ensures product meets specifications

## Modular



- Wear life lasts up to 4 or more times longer than woven wire
- Removes fines from retained material, reducing the need for washing

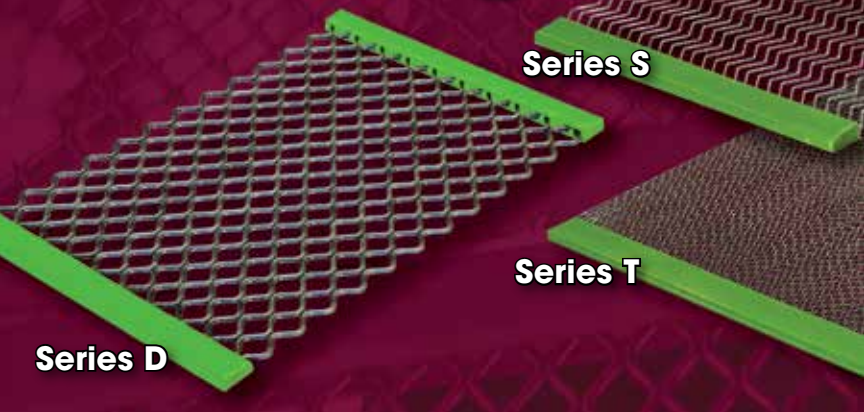
### Flex-Mat 3 Modular

- Increases open area up to 100%
- Increases throughput due to independent vibrating wires
- Precise passing ensures product meets specifications
- Self-cleaning capability virtually eliminates blinding, pegging and clogging
- Similar flat surface as polyurethane/rubber panels

[www.flexmat.com](http://www.flexmat.com)

**25,000+**  
**FLEX-MAT**  
APPLICATIONS

# FLEX-MAT<sup>®</sup> 3



## Tensioned & Modular Options

### Series / Benefits

### Opening Sizes

#### Series D

Provides precise sizing of passing material in most standard applications

**Tensioned:** 0.059" – 4"  
(1.5 mm – 101.6 mm)

**Modular:** 0.059" – 1.575"  
(1.5 mm – 40 mm)

#### Series S

Removes fines, produces a cleaner retained product and reduces blinding of wet and sticky materials

**Tensioned:** 0.059" – 2"  
(1.5 mm – 50.8 mm)

**Modular:** 0.059" – 1.575"  
(1.5 mm – 40 mm)

#### Series T

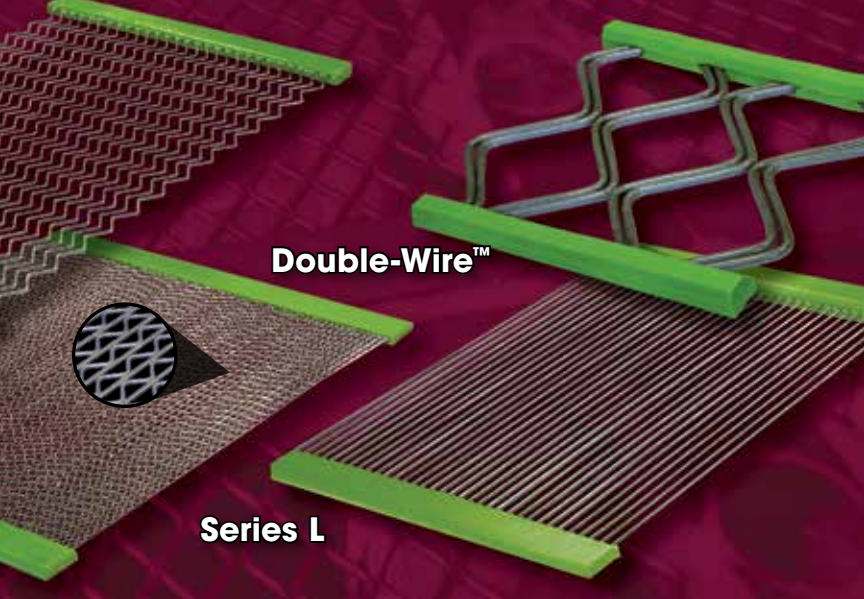
Replaces fine mesh to better reduce blinding.

Larger wire diameters provide greater durability for heavy scalping loads or high-impact materials

**Tensioned:** 0.0197" – 2"  
(0.5 mm – 50.8 mm)

**Modular:** 0.0197" – 0.055"  
(0.5 mm – 1.4 mm)





**Double-Wire™**

**Series L**

**Series / Benefits**

**Opening Sizes**

**Double-Wire™**

Provides precise sizing of passing material in high-impact and heavy material applications

**Tensioned:** 1.125" – 4"  
(28.6 mm – 101.6 mm)

**Series L**

Lasts up to twice as long as traditional harp/piano wire while keeping material in spec

**Tensioned:** Customized to specific applications

*All Flex-Mat screen media is available in stronger wear-resistant OptimumWire or stainless steel. It works on screen boxes up to 175°F (80°C).*

[www.flexmat.com](http://www.flexmat.com)



The image features a close-up of a silver-colored woven wire mesh. A roll of the mesh is partially unrolled, showing the texture and the way the wires are interwoven. The background is a dark, textured surface, possibly a piece of fabric or another layer of mesh. The logo 'OPTIMUMWIRE' is prominently displayed in a stylized, italicized font with a registered trademark symbol.

# OPTIMUMWIRE®

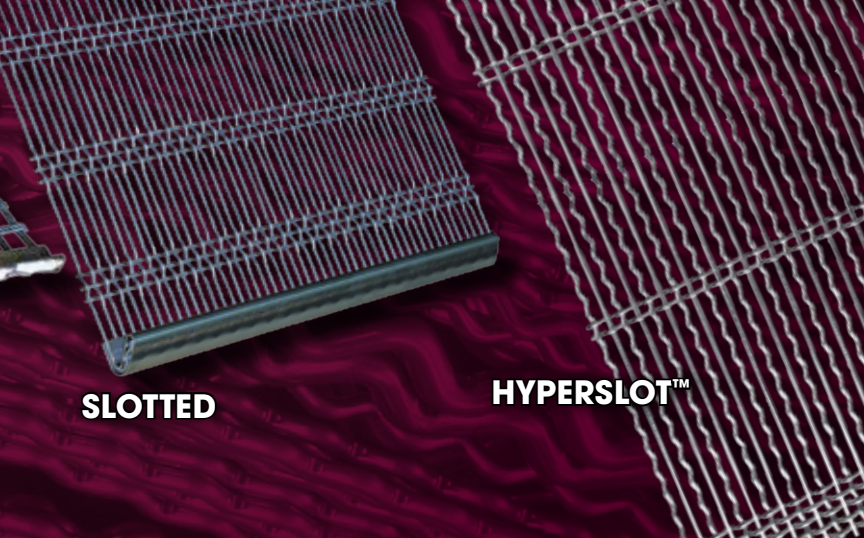
**DOUBLE-WEAVE™**

**SQUARE**

**OptimumWire® Woven Wire Mesh** is manufactured with a higher carbon and manganese content than traditional woven wire mesh, providing more resistance to abrasion, longer wear life and better overall performance. Its high ductility, hardness and tensile strength make it less susceptible to breaking in high-impact conditions and its extended wear life reduces downtime and replacement costs.

- Provides up to 40% longer wear life when compared to traditional woven wire mesh
- Allows producers to increase open area & throughput by using a smaller wire diameter without sacrificing wear life
- Longer wear life reduces replacing screens as often
- Manufactured with a stringent wire opening tolerance of  $\pm 3\%$  for precise material passing
- Available in stainless steel

**[www.optimumwire.com](http://www.optimumwire.com)**



**SLOTTED**

**HYPERSLOT™**

## Extensive Product Line

Screen Type / Benefits	Opening Sizes
<b>Square</b> Provides precise passing in standard applications	0.093" – 6" (2.36 mm – 152.4 mm)
<b>Double-Weave™</b> Side-by-side, lighter-gauge wires that perform better than heavy gauge, single-strand wires or perforated plate	1.25" – 5" (31.75 mm – 127.0 mm)
<b>Slotted</b> Single chute and triple chute remove fines; passes little oversize	Customized to specific applications
<b>HyperSlot™</b> Slows material down, creating more time for it to pass through the slots to solve severe blinding problems	Customized to specific applications

*All OptimumWire woven wire mesh is available in wire diameters of 0.047" (1.2 mm) to 0.750" (19 mm).*

Our commitment to our customers' screening success began more than 125 years ago and continues to drive our focus today.

At Major Wire, we continue to pioneer and advance the performance of screen media in a wide range of screening applications across the world. We also continue to pioneer and lead the screen media industry at the highest levels of customer support.

We appreciate your interest in Major Wire and wish you great success in your quest to operate a highly productive, profitable business.

Content of this brochure is subject to change without notice.

**Jean Leblond**  
President/CEO

Member of  
Haver & Boecker



[www.majorwire.cc](http://www.majorwire.cc)  
Phone: +1 (450) 659-7681  
Email: [major@majorwire.cc](mailto:major@majorwire.cc)  
ISO 9001:2008 Registered

Proven Solutions



Flex-Mat 3 is made with recyclable Thermoplastic Polyurethane.

© 2014 Major Wire Industries Limited. All rights reserved. OptimumWire, Flex-Mat and the lime green color of the polyurethane strips are registered trademarks of Major Wire Industries Limited.