Metso Mining Screens
Where we’ve been

Announcing the new benchmark for minerals separation...

...the Metso Mining Screen Range

Metso has leveraged its deep product knowledge, unequalled industry experience and exceptional design expertise to create a breakthrough product range of vibrating screens for the mining industry.

With its extraordinary pedigree, which includes names like Svedala, Allis-Chalmers, Hewitt-Robins and Nordberg, Metso is in a strong position to engineer customer success with an outstanding value package that includes innovative and proven screening technology.

Metso is launching a mining screen range designed specifically for the mining industry of the future, providing total solutions with:

- Groundbreaking technology
- Expert systems
- Guaranteed circuits
- Machines to fit any application
- A global supply chain

In other words – a mining screen range that is good enough to be called Metso.

Range includes the following models:

- MF (Multi-Flo) - linear motion curved decks
- RF (Ripl-Flo) - circular motion curved decks
- LH (Low-Head) - linear motion horizontal decks

3.6 m x 8.2 m DD secondary Multi-Flo screening -7" material at up to 4,000 tph at copper mine in North America
Testing and Product Centers

Global Network

Metso’s custom-built proprietary testing equipment more accurately predicts customers’ circuits. Through-life service and support, and purpose-built application test labs equal improved efficiency.

Our expertise is confirmed by our testing and product centers around the world.

Columbia, South Carolina – SSP server network, assembly plant, warehouse, engineering, training center.

Sorocaba, Brazil – test center.

Milwaukee, Wisconsin – complete crushing and screening plant, lab.

Sorocaba, Brazil – factory, foundry, warehouse, proprietary test equipment, full testing circuit, lab, engineering, FEA.

Mannheim, Germany – assembly, design, warehouse.

Newcastle, Australia – full fabrication and machine, engineering/FEA, assembly, warehouse.

Bawal, India – fabrication, machinery, assembly, warehouse, engineering.
Perfecting the process with Metso’s exclusive application and design knowledge.

**Expert Systems**

Metso leads the industry with these powerful systems.

**Screen Security Package (SSP)**

**Australian sizing program**

**Bruno crushing and screening flow sheet**

**Mineral process flow sheet**
Circuit Machinery with Matched Performance

Circuit Solutions

- Engineering customer success
- Optimized body design for SAG mill “super screens”
- Packaging capability ensures crushing circuit integrity
- One process guarantees “No Risk Circuits”
- “Ready to Run” screens with Trellex media and dust enclosures

Screen matched with Trellex media and dust enclosure
Monitoring Technology...

Screen Security Package (SSP)

Complete protection:
- 24-hour condition monitoring
- Online maintenance support
- Improves profits and uptime
- Increases MTBF
- Decreases operating expenses

Innovative technology:
- Patent pending stress monitoring
- Performance optimization
Monitoring Technology...

**Linear Structural Bearing (LSB)**

**Expert field audits:**
- Bearing condition
- Structure analysis
- Orbits
- Speed (RPM)
- FFT frequency analysis
- Cradle-to-grave audit program

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**Sample frequency test report**

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**LSB hand-held device**

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**Sample LSB analysis**

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**Mining Screens**
Secondary and Tertiary Applications, Large Tonage

Metso Mining Screens

Standard screen range:
• Features a full line of products for any type of application
• Single and double deck
• From 1.8 m to 4.2 m wide
• From 4.8 m to 8.5 m long

For other sizes, consult local office for details.

Low Head:
• 2.4 m x 6.0 m DD
• Isolation frame
• Dust Enclosure

3-D model available for Engineering Layout

ML Exciter:
• Two exciter sizes supply the whole range of equipment
• Oil lubricated lip seals
• Gears optimized
• SSP/LSB compatible
• Externally adjusted flywheels
• Electronic brakes
V-Series cartridge Ripl-Flo mechanism:
- Lower stopping inertia
- Easy stroke adjustments

Multi-Flo:
- 3.6 m x 8.2 m SD Multi-Flo screen set up with SSP system

Ripl-Flo:
- New moderate banana incline series screens
- Improved performance
- No compromise on space
- 3.0 x 7.3 double deck incline screen

Additional screen types:
- Dewatering
- SAG mill
- Four bearing
- Fine dry sizing
- Trash screens
- Hot pellet screens
Primary and Scalping Applications, Large Tonnage

Feeders and Grizzlies

**Vibrating grizzly feeder**
Control feeding across the width

- Fabricated or cast grizzly bars
- Stepped deck configuration
- Adjustable openings
- Heavy duty side plate reinforcement (bi-duty cycle)
- AR sideplate liner protection
- AR pan liners (up to 1-1/2" thick) protecting impact areas
- Extra heavy duty cross members

*Grizzly Scalper*

*Pan Feeder*
Parts

**Replacement Parts:**
For Nordberg, Svedala, Hewitt-Robins, SECO, Allis-Chalmers, Tyler and more*

**Metso workshops around the world offer:**
- Local part availability and emergency service
- Genuine OEM replacement parts
- Competitive prices
- Thousands of parts in stock
- Immediate shipping

**Trellex:**
- Screen media
- Liners
- Dust enclosures

**Trellex LS HiPer Life**
Built tough for maximum load handling

**Trellex LS HiPer Flo**
At least 20% more active screening surface

**Trellex LS HiPer Clean**
Precision production without interruptions

**Trellex LS HiPer Drain**
Precision and exceptional dewatering

**Service products offer:**
- Field audits
- On-site assembly
- Rebuild programs

* North America only
Our Nordberg, Barmac* and Lokotrack brand ranges:

• C Series jaw crushers
• LT Series mobile crushing plants
• Complete plants for aggregate production
• Primary gyratory crushers
• NW Series portable plants
• Complete plants for recycling
• GP Series cone crushers
• HP Series cone crushers
• MP Series cone crushers
• NP Series horizontal impact crushers
• Barmac vertical shaft impact crushers
• Laboratory crushers

* Barmac is a trademark owned by Metso and is registered in many countries around the world.