

Multi-slope screens  
Metso PREMIER TS™



# Elliptical motion

- Outstanding strong stratification
- High energy screening action



Fast travel speed



Medium travel speed



- Shaft line is located above the Gravity Center (GC) to achieve elliptical motion with variable angles.



**Metso PREMIER TS™**

Decreasing travel speed

- Strong stratification effect
- More time and more surface to screen the near size particles

The diagram shows a cross-section of a screening process. A yellow curved line represents the screen surface, which slopes downwards from left to right. Above the screen, a layer of dark brown particles is shown. Green circular arrows indicate the direction of particle movement, showing that the particles spend more time on the screen as they move down the slope. Below the screen, a pile of screened material is shown.

Low travel speed



**Conventional screen**

Constant travel speed

- High bed depth all the way
- Poor stratification effect

The diagram shows a cross-section of a screening process. A yellow straight line represents the screen surface, which is horizontal. Above the screen, a layer of dark brown particles is shown. Green circular arrows indicate the direction of particle movement, showing that the particles spend the same amount of time on the screen throughout the entire length. Below the screen, a pile of screened material is shown.

### Back plates

- Quickly removable
- Faster for panel replacement

## Environmental

### Low power draw

- Versus the processed tonnage

### Spring suspension

- Safe for fingers
- Very good isolation ratio

### Dust sealing (optional)

- Bolted snap on profiles to attach the rubber skirt (partial or full perimeter)
- Standard TS has holes in sideplates
  - ↳ snap on profiles can be easily retrofitted

## Process control & flexibility

### Removable plugs for check up during operation

- To gauge the bed depth
- Material sampling of the fines included in the oversize

### Spray pipes option

- Standard TS has pre-existing holes in sideplates (with rubber plugs)
- Stationary spray pipes can easily be retrofitted



# Easy maintenance and secured reliability

## Feedbox

- Heavy duty rubber liners are standard
- Liners are bolted and replaceable

## Shaft line above the screen

- Not in the material flow
- Easy access and easy maintenance

## Weldfree sideplates and huckbolted construction

- Maximum durability

## Greater clearance between decks

- Operator can access easily

## Discharge lips

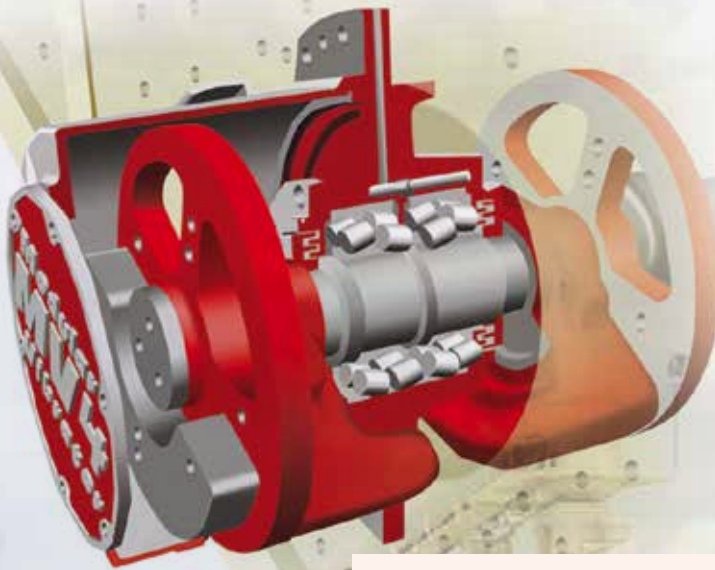
- Heavy duty rubber liners are standard
- Liners are bolted and replaceable

## Centralized lubrication point

- Easy access to the grease fittings
- Optional grease unit easily connected

Faster

Safer

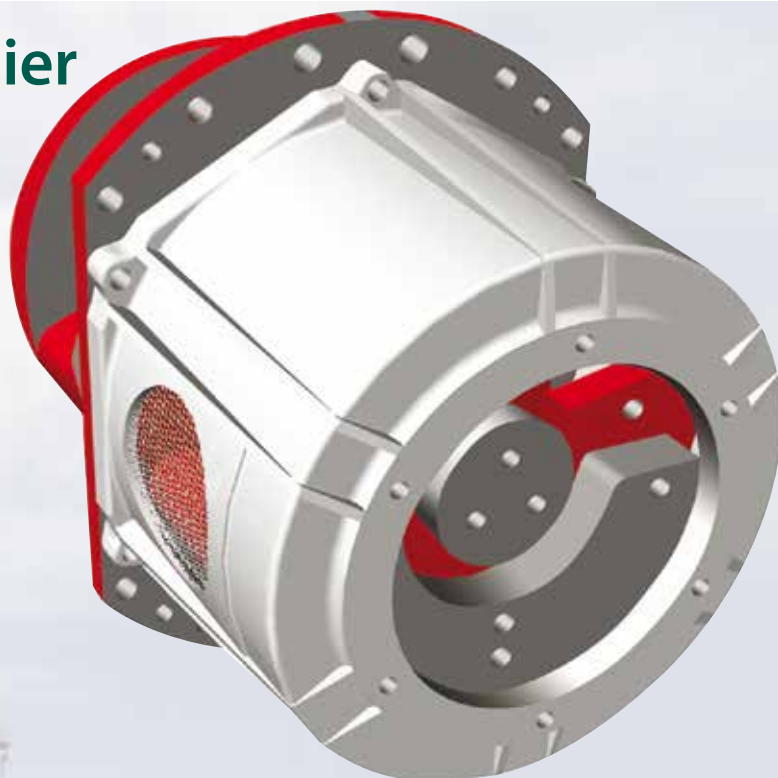


- **Two bearings per vibrator...  
...Four bearings per shaft line**
- Long bearing life



- **Grease lubrication design**
- No oil leakage and external contamination
- From 50 hours up to 200 hours greasing intervals
- Automatic greasing unit option

## Easier



- **Real cartridge design**
- No bearing change out environment

- **Stroke adjustability**
- Suit to all applications

### ■ **MV Exchange Program**

Trade your used MV vibrator for a credit towards a new unit or a factory rebuilt unit

- Renewed bearing life
- Less downtime

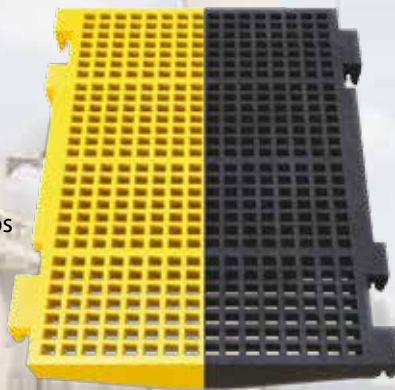


# Experience makes the match

## Trellex Screening Media and Metso Screens – naturally better together

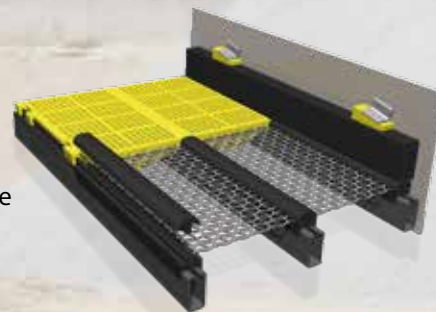
**Trellex LS.** Trellex LS modules are the result of more than 50 years of experience and development. Optimized for Metso Screens, Trellex LS helps you achieve higher volume processing with minimal interruptions. And thanks to the industry's only true global sales and support network, Trellex LS modules are always available quickly and conveniently wherever you are. Make sure your Metso Screen is always producing at its cost-effective best. Match it with Trellex LS screening modules.

- Injection moulded rubber ensures consistent material performance properties throughout
- Open cast, dual-hardness polyurethane design for exceptional performances
- Minimal maintenance design keeps costs down and production up
- Customizing with moulded or punched apertures
- Optional stepped deck configuration for more effective throughput of fines
- Onsite advice, measuring, testing and installation help from experienced Trellex reps



## Get the right match fast with Trellex LS wire inserts

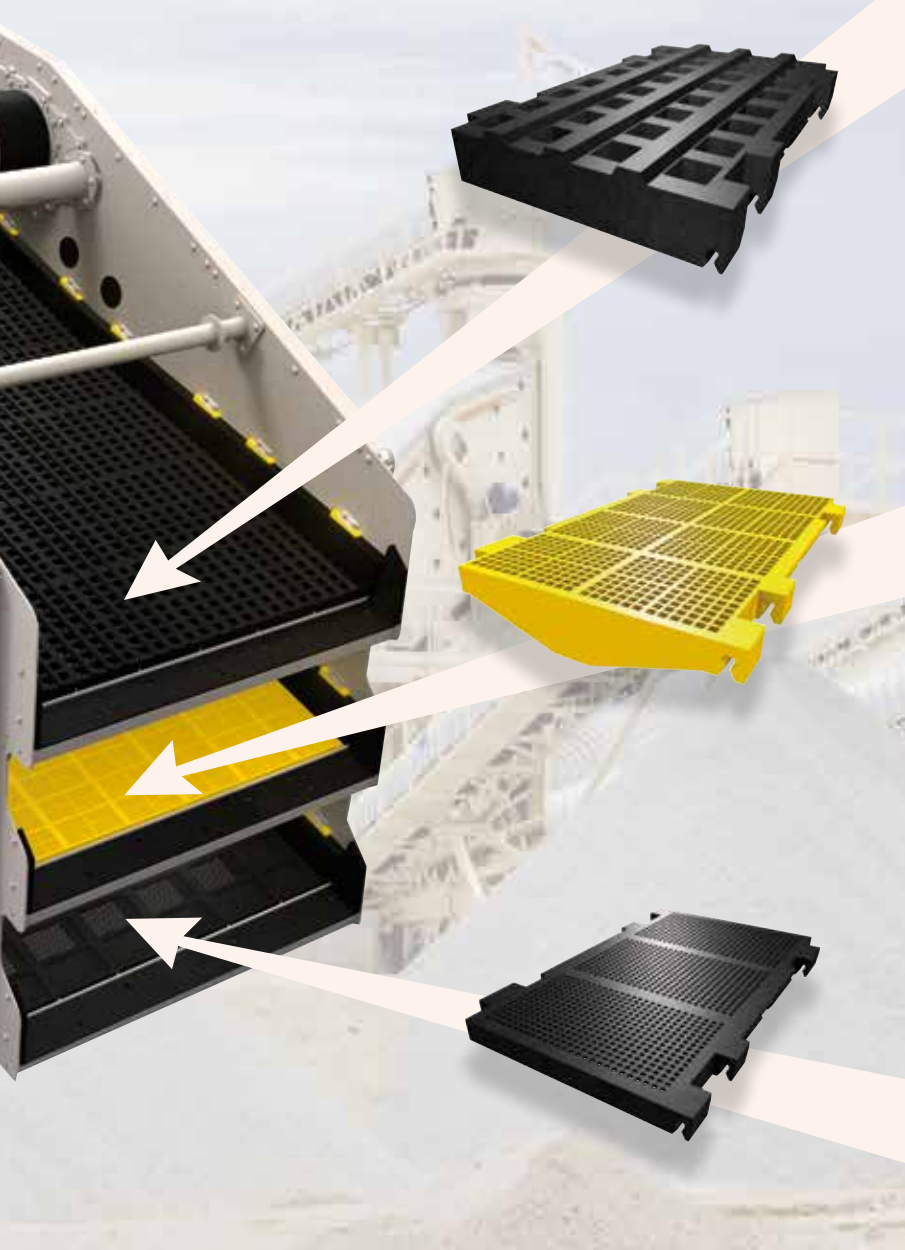
The Trellex LS wire insert system is an effective way to fine tune your deck configuration in the shortest possible time. Normally, one to four rows at the discharge end are equipped with Trellex LS wire inserts during a new screen installation. Thanks to quick delivery times and the low cost of wire cloth, aperture sizes can be changed and tested quickly to get the right specification for the switch to polyurethane or rubber modules. With Trellex LS wire inserts, your screen will be up and running accurately in no time.





**NEW!**

**Trellex LS HiPer.** Give your Metso Screen the highest performance upgrade possible. HiPer is our most advanced product line, grouped into three top performing series offering even higher load capacity, more efficient material screening and zero interruptions due to pegging or blinding. And since they're designed, produced and delivered by Trellex, you can plan your screening media system with a mix of Trellex LS standard and HiPer modules for maximum effectiveness and value.



**HiPer Life**

Built tough for maximum load handling.

- Injection moulded wear-resistant rubber compound – lasts at least 30% longer
- Riding bars for higher capacity and longer life
- Moulded apertures to reduce risk of pegging
- Higher temperature resistance

**HiPer Flow**

At least 20% more active screening surface.

- More moulded apertures on every module
- Saves time and money. More processing surface = more material processed
- Long-lasting open cast polyurethane design
- Lightweight, no steel frames, recyclable

**HiPer Clean**

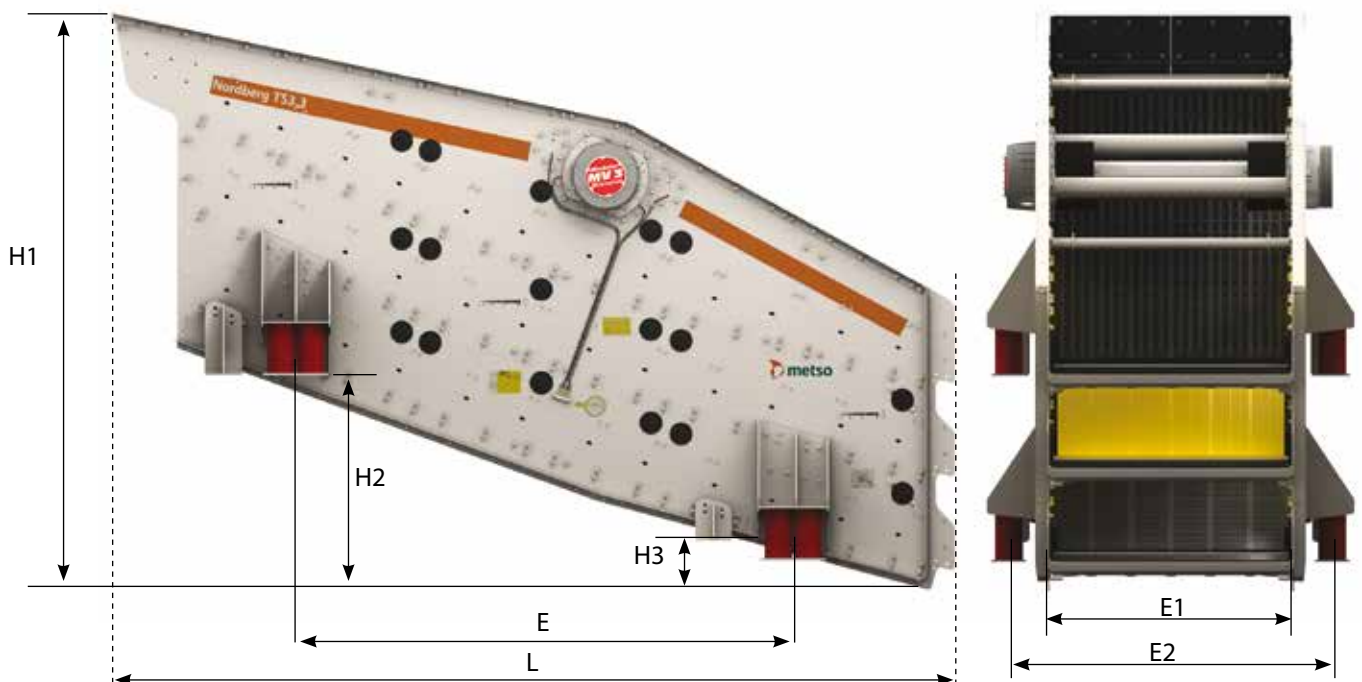
Precision production without interruption.

- Flexible membrane and moulded apertures prevent blinding and pegging
- GUARANTEED to stay clean, even for high moisture material
- Injection moulded flexible rubber construction ensures consistent material performance properties throughout
- Highly accurate, ideal for finer separations



TS screen	Deck dimension	Area	Decks	MV	Motor	Weight
TS 2.2	1 500 x 5 000 mm 4.9 x 16.4 ft	7.5 m <sup>2</sup> 80.4 Sqft	2	MV2	15 kW 20 hp	6 t / 6.6 sht
TS 2.3			3			8 t / 8.8 sht
TS 3.2	1 800 x 6 000 mm 5.9 x 19.7 ft	10.8 m <sup>2</sup> 116.2 Sqft	2	MV3	22 kW 30 hp	8 t / 8.8 sht
TS 3.3			3			10 t / 11 sht
TS 4.2	2 400 x 6 000 mm 7.9 x 19.7 ft	14.4 m <sup>2</sup> 155.6 Sqft	2	MV4	30 kW 40 hp	9 t / 9.9 sht
TS 4.3			3			12 t / 13.2 sht
TS 5.2	2 400 x 8 300 mm 7.9 x 27.2 ft	20 m <sup>2</sup> 214.9 Sqft	2	MV4	30 kW 40 hp	16 t / 17.6 sht
TS 5.3			3	2 x MV3	2 x 22 kW 2 x 30 hp	20 t / 22 sht
TS 6.2	3 000 x 8 300 mm 9.8 x 27.2 ft	25 m <sup>2</sup> 269 Sqft	2	2 x MV3	2 x 22 kW 2 x 30 hp	20 t / 22 sht
TS 6.3			3	2 x MV4	2 x 30 kW 2 x 40 hp	24 t / 26.5 sht

TS screen	H1	H2	H3	L	E	E1	E2
TS 2.2	4 076 mm	1 529 mm	229 mm	5 831 mm	3 462 mm	1 530 mm	2 138 mm
TS 2.3	160.5 in	60.2 in	9 in	229.6 in	136.3 in	60.2 in	84.2 in
TS 3.2	4 280 mm	1 648 mm	261 mm	6 332 mm	3 800 mm	1 839 mm	2 446 mm
TS 3.3	168.5 in	64.9 in	10.3 in	249.3 in	149.6 in	72.4 in	96.3 in
TS 4.2	4 350 mm	1 618 mm	216 mm	6 350 mm	3 785 mm	2 445 mm	3 060 mm
TS 4.3	171.3 in	63.7 in	8.5 in	250 in	149 in	96.3 in	120.5 in
TS 5.2	6 357 mm	2 195 mm	188 mm	8 595 mm	5 963 mm	2 445 mm	3 060 mm
TS 5.3	250.3 in	86.4 in	7.4 in	338.4 in	234.8 in	96.3 in	120.5 in
TS 6.2	4 810 mm	2 576 mm	380 mm	8 734 mm	5 946 mm	3 045 mm	3 647 mm
TS 6.3	189.3 in	101.4 in	14.9 in	343.8 in	234.0 in	119.8 in	143.5 in
TS 6.3	5 529 mm	2 609 mm	435 mm	8 736 mm	5 868 mm	231.0 in	143.5 in
	217.6 in	102.7 in	17.1 in	343.9 in	231.0 in		





**Metso Corporation**, Lokomonkatu 3, P.O. Box 306, FI-33101 Tampere, Finland, tel. +358 20 484 142, fax +358 20 484 143  
[www.metso.com](http://www.metso.com)

Metso, Lokotrack, Nordberg, Barmac and Trellex are trademarks or registered trademarks of Metso Corporation or its subsidiaries or affiliates.  
\*Other names and brands may be claimed as the property of others.