

Metso PREMIER and COMPACT screens

Why choose Metso's screen?

Performance

- Easy adjustability of stroke & speed
- Extensive selection of screening panels type
- Extensive selection of upgrade options

Worker safety

- Comfortable room between the decks
- High safety belt guards design
- Safety coil spring covers
- Rubber stabilizers as standard
- Configured to be equipped with dust and noise protection

Durability

- MV™ vibrators: long bearing life (double bearing design)
- Weld free side plates and huck-bolted assembly
- Robust deck frame design
- Uncompromised wear protection standard

Maintenance friendly

- Modular MV™ vibrators and cardan shaft design
- Easy access and quick replacements of screening media
- Easily replaceable modular crossbeam protection
- Modular wear and impact resistance rubber linings
- Centralized and conveniently located greasing manifold



Inclined screens Metso PREMIER CVB™

The Metso PREMIER CVB™ is the screen for you when you want a versatile and durable partner in your screening process.

Lowest total cost of your screening operation

Metso PREMIER CVB™ has one of the industry's strongest legacies in the industry of delivering dependable screening performance. Its uniquely robust deck frames are an example of its enhanced durability and reliability. The shaft line is positioned at the center of gravity, a perfect circular motion results on all points on the screen. Combined with an adjustable slope angle from 12-22° this circular motion gives very good screening efficiency for all types of applications, such as primary, technical and final screening. The weld-free crossmember sections reduce the risk of fatigue stress and optimize the product lifetime. In addition, the CVB Series has weld-free side plates, which increases the screen's durability and stress tolerance. Huck-bolting gives you perfect and homogeneous assembling conditions and eliminates the risk of detachment. Size for size, the CVB Series inclined screens are often the most economical in terms of capital expenditure and power consumption compared to other types of screens.

Metso PREMIER CVB has been designed to deliver the lowest total cost to operate with its trouble-free design and high availability of wear and spare parts, which eliminates expensive downtime due to high-cost customized items with low availability.

Benefits

- Circular motion with up to 4G
- Adjustable incline 15°-20°
- High safety design
- High-quality wear protection
- Metso MV™ vibrators



Horizontal screens Metso PREMIER ES™

Ramp up your screening efficiency with the revolutionary, high-energy elliptical motion Metso PREMIER ES™ screen.

High-efficiency screening

Metso PREMIER ES™ screens feature two unbalanced shaft lines rotating in opposite directions to generate a high-energy elliptical motion. This deceptively simple solution is more efficient than conventional horizontal screens that have a linear motion, and the ES Series is more reliable than other elliptical motion screens. What's more, the ES Series separates your materials with consistency and accuracy, even in damp and sticky conditions. The high-energy elliptical motion of the ES Series gives you up to 25% greater capacity than a conventional screen of the same size. In difficult screening conditions – such as wet screening or screening of sticky and dirty materials – the ES Series provides exactly the kind of aggressive screening action you need. Capable of handling all kinds of material, from quarry solid to gravel, you can trust the ES Series to perform reliably in applications that require a high level of screening accuracy. The ES Series is designed to keep downtime and maintenance to a minimum, as there is no mechanical timing device, no gears, no belt and no oil leakage. Quite simply, there's very little that can go wrong.

Compared with other elliptical motion screens, the ES Series is designed with up to 50% more space between the decks.

Benefits

- Elliptical motion with up to 6G
- High-energy screening
- Adjustable incline 0-5°
- Easy maintenance and safe access
- Metso MV™ vibrators



Multi-slope screens Metso PREMIER TS™

The Metso PREMIER TS™ is what you need when you are looking for uniquely designed high-capacity screens.

High-capacity screening

The Metso PREMIER TS™ banana screen is a triple-slope screen ensuring a fast travel speed with an elliptical motion in the first slope, medium travel speed and circular motion in the second slope, and a low travel speed, backwards rotating elliptical motion in the last section. The slower travel speed and strong stratification effect ensures more time and more surface to screen the near-size particles. A single shaft located above the center of gravity generates the elliptical motion with variable angles.

The TS Series banana screen delivers up to 40% more capacity than a standard inclined screen -- especially when the feed material contains a high percentage of fines. Creating a safe working environment is one of Metso's top priorities. Safety solutions are not an add-on, but part of our standard offering. This is another factor that puts the TS Series ahead of the competition. The feedbox, discharge spout and cardan shaft come with high-quality, impact-resistant rubber linings as standard. Upgrade options, such as replaceable modular crossbeam protection and Trellex® LS™ modular screening media, make the screen well suited for high-capacity applications with ensured uptime.

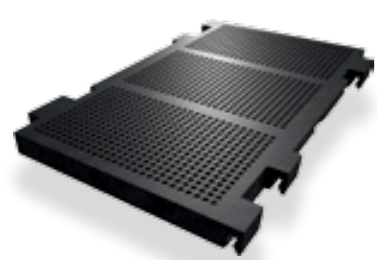
Benefits

- Elliptical motion up to 6G
- High-energy screening
- Multi-slope inclines 25°-20°-15°
- Easy maintenance and safe access
- Metso MV™ vibrators

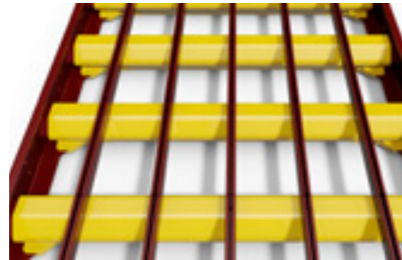
Optimize your screen

Multiple options for your needs

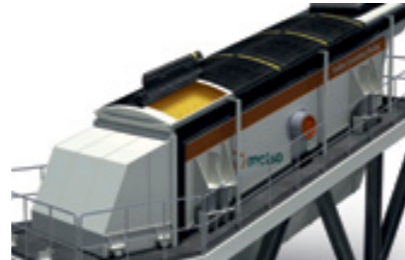
A wide offering of options enables you to customize your screen to meet your needs. Full and appropriate use of these options helps to optimize the efficiency and uptime of your plant.



Modular screening media
• Trellex® LS, RU and PU



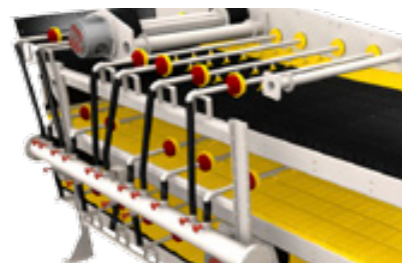
Crossmember protection
• Trellex® CMP polyurethane



Dust sealing system
• Trellex® dust control



Side tension screening media
• Trellex® TCO RU and PU



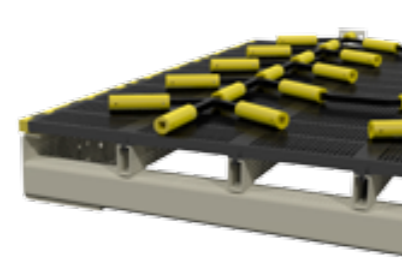
Spray pipe unit
• Ideal package for wet screening



Galvanization treatment
• Optimal corrosion protection



Automatic greasing kit
• Electrical power greasing unit



Anti-blinding system kit
• Trellex® ABR polyurethane anti-blinding rods



Modular rail-wear protection
• Trellex® polyurethane HD upgrade strip

Metso PREMIER CVB™ inclined screens					
Range	Deck dimension	Area	Decks	MV vibrator	Weight *)
CVB101™ CVB102™ CVB103™ CVB104™	1 565 x 3 660 mm 5' x 12'	5.7 m ² 60 ft ²	1	2 x MV2	4 000 kg (8 900 lbs)
			2	2 x MV2	5 200 kg (11 500 lbs)
			3	2 x MV2	6 400 kg (14 200 lbs)
			4	2 x MV2	8 000 kg (17 700 lbs)
CVB201™ CVB202™ CVB203™ CVB204™	1 870 x 4 880 mm 6' x 16'	9.1 m ² 96 ft ²	1	2 x MV2	5 000 kg (11 100 lbs)
			2	2 x MV3	7 000 kg (15 500 lbs)
			3	2 x MV3	10 080 kg (22 300 lbs)
			4	2 x MV2	12 350 kg (27 300 lbs)
CVB301™ CVB302™ CVB303™ CVB304™	1 870 x 6 100 mm 6' x 20'	11.4 m ² 120 ft ²	1	2 x MV2	6 200 kg (13 700 lbs)
			2	2 x MV3	9 600 kg (21 200 lbs)
			3	2 x MV3	11 900 kg (24 300 lbs)
			4	2 x MV4	13 000 kg (28 700 lbs)
CVB401™ CVB402™ CVB403™ CVB404™	2 480 x 6 100 mm 8' x 20'	15.1 m ² 160 ft ²	1	2 x MV2	7 500 kg (16 600 lbs)
			2	2 x MV3	11 000 kg (24 300 lbs)
			3	2 x MV4	16 000 kg (35 300 lbs)
			4	2 x MV4	15 000 kg (33 100 lbs)
CVB501™ CVB502™ CVB503™ CVB504™	2 480 x 7 320 mm 8' x 24'	18.2 m ² 192 ft ²	1	2x MV3	9 500 kg (21 000 lbs)
			2	2 x MV4	14 000 kg (30 900 lbs)
			3	4 x MV3	19 000 kg (41 900 lbs)
			4	4 x MV3	22 000 kg (48 600 lbs)
CVB602™ CVB603™	3 070 x 7 320 mm 10' x 24'	22.5 m ² 240 ft ²	2	4 x MV3	16 600 kg (36 600 lbs)
			3	4 x MV4	22 100 kg (48 800 lbs)
CVB101P™ CVB102P™ CVB103P™	1 565 x 3 660 mm 5' x 12'	5.6 m ² 60 ft ²	1	2 x MV2	4 000 kg (8 900 lbs)
			2	2 x MV2	5 100 kg (11 300 lbs)
			3	2 x MV3	7 100 kg (15 700 lbs)
CVB201P™ CVB202P™ CVB203P™	1 870 x 4 880 mm 6' x 16'	8.9 m ² 96 ft ²	1	2 x MV2	5 000 kg (11 100 lbs)
			2	2 x MV3	7 190 kg (15 900 lbs)
			3	2 x MV3	9 500 kg (21 000 lbs)
CVB301P™ CVB302P™ CVB303P™	1 870 x 6 100 mm 6' x 20'	11.1 m ² 120 ft ²	1	2 x MV2	6 200 kg (13 700 lbs)
			2	2 x MV3	9 300 kg (20 600 lbs)
			3	2 x MV3	10 800 kg (23 900 lbs)
CVB401P™ CVB402P™ CVB403P™	2 480 x 6 100 mm 8' x 20'	14.9 m ² 160 ft ²	1	2 x MV3	7 500 kg (16 600 lbs)
			2	2 x MV3	11 000 kg (24 300 lbs)
			3	2 x MV4	16 000 kg (35 300 lbs)
CVB501P™ CVB502P™ CVB503P™	2 480 x 7 320 mm 8' x 24'	17.8 m ² 192 ft ²	1	2 x MV3	9 500 kg (21 000 lbs)
			2	2 x MV4	14 500 kg (32 000 lbs)
			3	4 x MV3	18 000 kg (39 700 lbs)
Metso PREMIER ES™ horizontal screens					
Range	Deck dimension	Area	Decks	MV vibrator	Weight *)
ES202™ ES203™	1 870 x 4 880 mm 6' x 16'	9.1 m ² 96 ft ²	2	2 x MV2 / 2 x MV3	9 500 kg (20 950 lbs)
			3		
ES302™ ES303™	1 870 x 6 100 mm 6' x 20'	11.4 m ² 120 ft ²	2	2 x MV2 / 2 x MV3	9 500 kg (20 950 lbs)
			3		
ES402™ ES403™	2 480 x 6 100 mm 8' x 20'	15.1 m ² 160 ft ²	2	2 x MV3 / 2 x MV4	12 360 kg (27 250 lbs)
			3		
ES502™ ES503™	2 480 x 7 300 mm 8' x 24'	17.8 m ² 192 ft ²	2	2 x MV3 / 2 x MV4	15 500 kg (34 200 lbs)
			3		
Metso PREMIER TS™ multi-slope screens					
Range	Deck dimension	Area	Decks	MV vibrator	Weight *)
TS2.2™ TS2.3™	1 500 x 4 900 mm 5' x 16'	7.5 m ² 80.4 ft ²	2	2 x MV2	6 000 kg (13 230 lbs)
			3		
TS3.2™ TS3.3™	1 800 x 6 100 mm 6' x 20'	10.8 m ² 116.2 ft ²	2	2 x MV3	8 000 kg (17 640 lbs)
			3		
TS4.2™ TS4.3™	2 400 x 6 100 mm 8' x 20'	14.4 m ² 155.6 ft ²	2	2 x MV4	9 000 kg (19 840 lbs)
			3		
TS5.2™ TS5.3™	2 400 x 8 200 mm 8' x 27'	20 m ² 214.9 ft ²	2	2 x MV4	16 000 kg (35 275 lbs)
			3		
TS6.2™ TS6.3™	3 000 x 8 200 mm 10' x 27'	25 m ² 270 ft ²	2	4 x MV3	21 000 kg (46 300 lbs)
			3		

*) Values are indicative only. Please contact Metso for more information.

Metso COMPACT™ screens

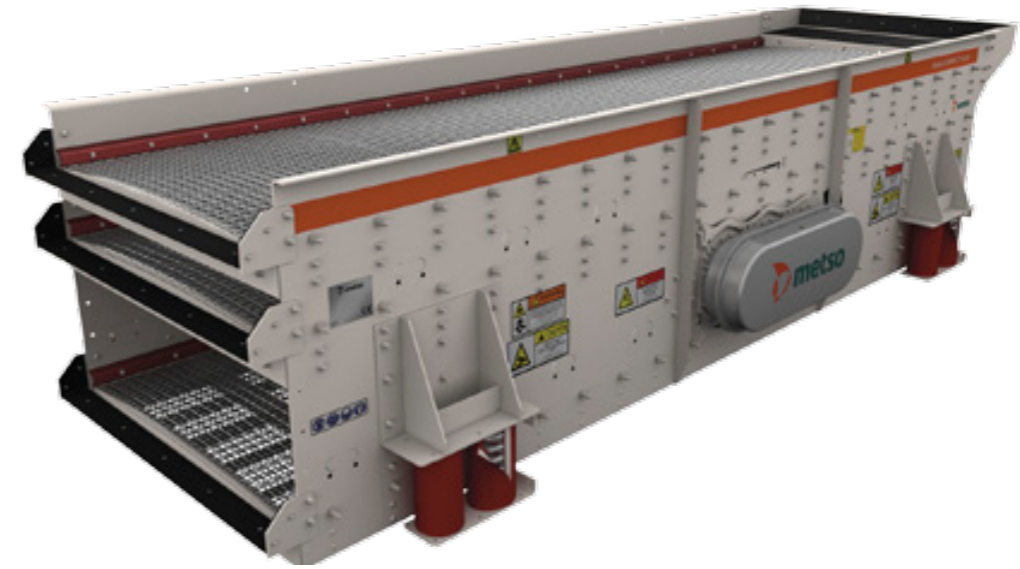


Metso COMPACT CVB-M™ inclined screens with circular motion offer one of the most versatile screen arrangements to provide high reliability. The compact design is optimized for high portability without sacrificing performance.

An extremely versatile solution

In many applications, the set-up time is crucial, as the application and process needs change from location to location. The design of the Metso COMPACT CVB-M™ inclined screens includes features so that it can be quickly put into operation. These features include fast and efficient change of the screening media, and the ability to adjust stroke and RPM parameters within a wide range to optimize performance quickly.

Metso COMPACT CVB-M™ screens fit into a single container, making moving them fast and easy.



As part of the Metso COMPACT screen series, the FS™ horizontal screens are designed for integration into tight spaces, both with fixed and mobile plants. The FS screens include carefully selected features in a standard configuration, for easy and reliable operation.

A high accuracy screen

Metso COMPACT FS™ flat screens are horizontal elliptical motion screens. This screen is extremely compact for the best portability. Its triple shaft line generates a high-energy elliptical vibration. The combination of horizontal decks + high acceleration + aggressive elliptical vibration provides a strong stratification of the bed depth, which leads to high screening accuracy.

Metso COMPACT CVB-M™ inclined screens					
Range	Deck dimension	Area	Decks	MV vibrator	Weight *)
CVB1540-3M™ CVB1540-4M™	1 500 x 4 000 mm 5' x 13'	6 m ² 65 ft ²	3 4	2 x MV2	4 000 kg (8 900 lbs) 10 000 kg (10 000 lbs)
CVB1845-3M™ CVB1845-4M™	1 800 x 4 500 mm 6' x 15'	8.1 m ² 87.2 ft ²	3 4	2 x MV2	4 500 kg (10 000 lbs) 5 100 kg (11 300 lbs)
CVB2060-3M™ CVB2060-4M™	2 000 x 6 000 mm 6.6' x 20'	12 m ² 129.2 ft ²	3 4	2 x MV3	6 500 kg (14 400 lbs) 10 200 kg (22 500 lbs)
Metso COMPACT FS™ horizontal screens					
Range	Deck dimension	Area	Decks	MV vibrator	Weight *)
FS252P™ FS253™	1 800 x 4 900 mm 6' x 16'	8.9 m ² 96 ft ²	2 3	6 x MV2	9 100 kg (20 000 lbs) 12 000 kg (26 500 lbs)
FS303™	1 800 x 6 100 mm 6' x 20'	11.1 m ² 120 ft ²	3	6 x MV2	10 400 kg (23 000 lbs)
FS353™	2 100 x 6 100 mm 7' x 20'	13 m ² 140 ft ²	3	6 x MV3	13 500 kg (29 800 lbs)
FS403™	2 400 x 6 100 mm 8' x 20'	14.9 m ² 160 ft ²	3	6 x MV3	17 500 kg (38 600 lbs)

*) Values are indicative only. Please contact Metso for more information.