maskin mekano

the *unique* STE-screen

FEATURE	EFFECT	RESULT
Powerful stroke	Effective stratification	High capacity
Shallow inclination	Effective separation	High quality

The master of fines

Fine screening places unique demands on your equipment. No matter how precisely the material is crushed and shaped, inadequate screening can compromise the end result. That's why customers expect sharp, consistent grading curves—unaffected by external factors such as wind and weather. In these conditions, high-acceleration screens offer a distinct advantage.

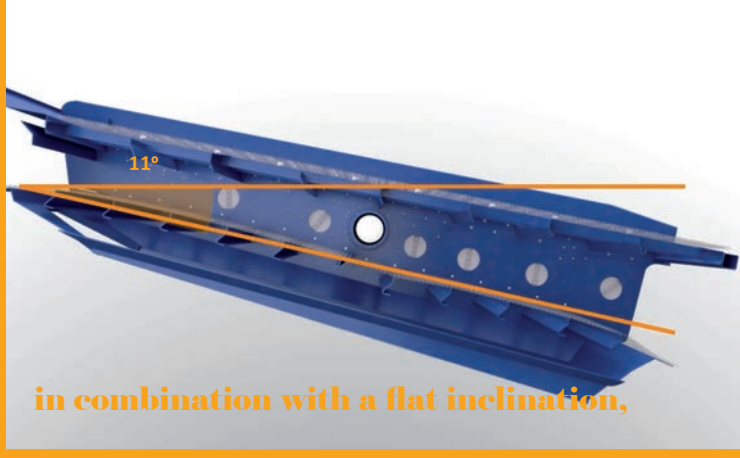
The STE Screen Series from Maskin Mekano is purpose-designed to deliver high-capacity precision screening. The concept combines a powerful stroke with a shallow screening angle to achieve exceptional performance and consistency.

With a robust 12 mm stroke, the STE screens ensure rapid and efficient stratification—effectively separating fine and coarse particles. Fine material quickly settles to the bottom of the bed, passing through the screening media without being obstructed by larger particles. This intense motion results in increased capacity and a cleaner separation.

Achieving sharp grading curves also requires a slow material flow across the screen, giving borderline particles ample opportunity to be classified correctly. For this reason, STE screens operate at a gentle 11° incline—providing outstanding precision, even for fine and short fractions such as 0–2, 2–4, 4–8, 8–11, and 11–16 mm.

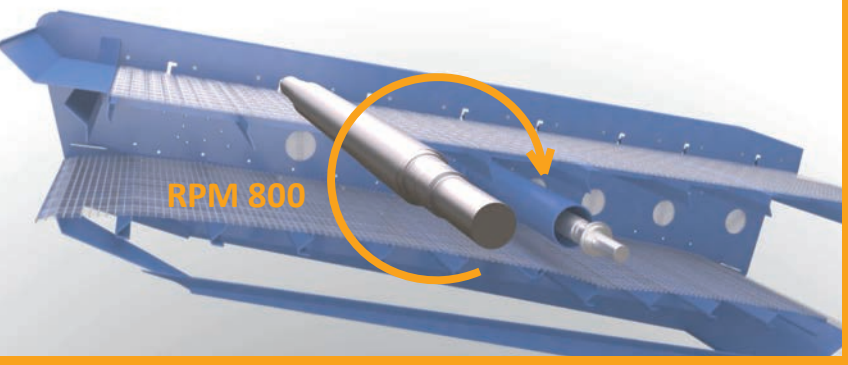
Exceptional performance. Consistent results. Precision you can rely on.

A powerful stroke...



in combination with a flat inclination,

constant movement regardless of load...



...for a quick removal of fines and sharp screening curves.

= Superior screening results in all weather conditions

Thanks to the innovative Vibroblock concept, both the screen and motor are mounted on a fully vibration-isolated frame. This allows us to use a high-stroke STE screen for maximum screening efficiency—without any vibrations transferring to the chassis. The result? Superior performance with zero risk of vibration-related wear or damage to the rest of the machine.

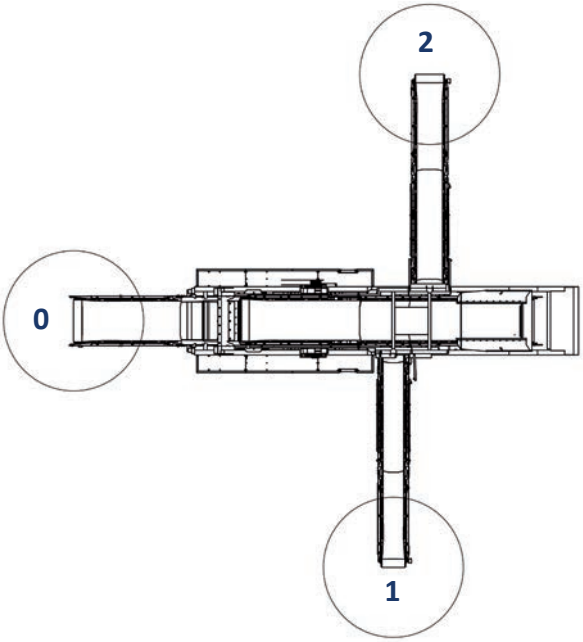
Preserve the power where it is needed with Vibroblock

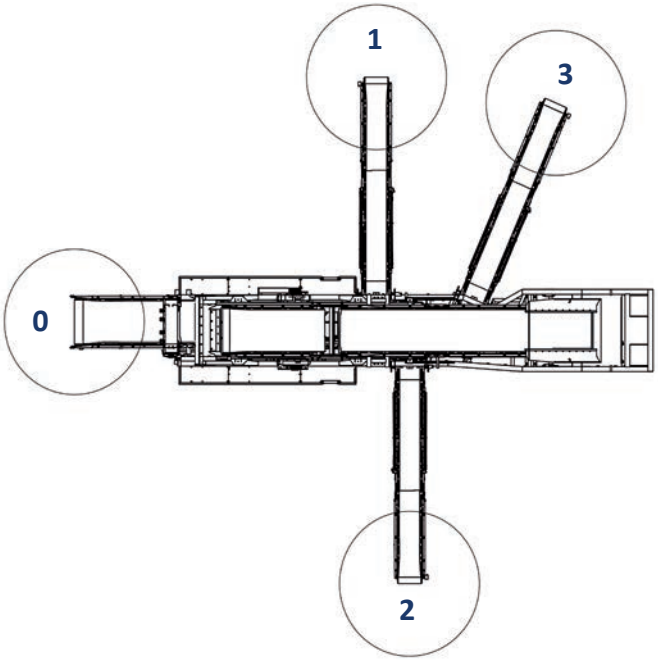
The STE screen is four bearing so the rpm and stroke remain the same regardless of strain. This provides a consistent screening result and a predictable behaviour, but when conditions change a need for calibration occurs, e.g. when material freezes in the screening box or meshes are swapped from lightweight to heavier. Counterbalancing is however a thing of the past with the new Vibroblock concept.

Prevent vibration damage

With the Vibroblock concept the screen box is mounted on a vibration damped frame which prevents the vibrations from the screen from transmitting to the chassis. This saves the entire plant from damages caused by vibration, whilst the screening motion remains efficient. The Vibroblock design allows the STE screen to operate with the capacity of a four bearing screen as smooth as a two bearing screen.

CAPACITY EXAMPLES





Capacity two deck screens*

Sorting of 0/8 with approved curves
(max. 10% oversize /15% undersize)

			STE 2-53	STE 2-67	STE 2-94
	Size	Share	tonnes/h	tonnes/h	tonnes/h
0	0/2	51%	48	59	83
1	2/4	19%	18	22	32
2	4/8	29%	27	34	47
			93	115	162

Sorting of 0/11 with approved curves
(max. 10% oversize /15% undersize)

			STE 2-53	STE 2-67	STE 2-94
	Size	Share	tonnes/h	tonnes/h	tonnes/h
0	0/4	59%	66	82	115
1	4/8	24%	27	34	47
2	8/11	16%	18	22	32
			111	138	194

Sorting of 0/16 with approved curves
(max. 10% oversize /15% undersize)

			STE 2-53	STE 2-67	STE 2-94
	Size	Share	tonnes/h	tonnes/h	tonnes/h
0	0/4	51%	66	82	115
1	4/8	21%	27	34	47
2	8/16	28%	36	45	63
			129	160	225

**These capacity examples are done in crushed granite, the performance in crushed concrete is similar*

Capacity three deck screens*

Sorting of 0/11 with approved curves
(max. 10% oversize /15% undersize)

			STE 3-67	STE 3-94
	Size	Share	tonnes/h	tonnes/h
0	0/2	43%	59	83
1	2/4	16%	22	32
2	4/8	24%	34	47
3	8/11	16%	22	32
			138	194

Sorting of 0/16 with approved curves
(max. 10% oversize /15% undersize)

			STE 3-67	STE 3-94
	Size	Share	tonnes/h	tonnes/h
0	0/4	51%	82	115
1	4/8	21%	34	47
2	8/11	14%	22	32
3	11/16	14%	22	32
			160	225

Sorting of 0/16 with approved curves
(max. 10% oversize /15% undersize)

			STE 3-67	STE 3-94
	Size	Share	tonnes/h	tonnes/h
0	0/2	37%	59	83
1	2/4	14%	22	32
2	4/8	21%	34	47
3	8/16	28%	45	63
			160	225

Stationary applications

Did you know that you can use the STE-screen also in your stationary plant? The screen-box is then built on a Vibroblock frame to prevent vibrations from propagating to the rest of the plant. Maskin Mekano can deliver bespoke equipment for your entire plant, or just adapt the frame of the screen to fit in.

Energy efficient

The STE screen operates electrically, offering cost-effective production with reduced environmental footprint.

Technical specification

Model	STE 1-26
Screen area	1200 x 2200 mm on one deck
Stroke	12 mm
Inclination	11˚
Motor	4.0 kW, 400V
Tensioning of media	Side tensioned

Featured in ECO1

Technical specification

Model	STE 2-26
Screen area	1200 x 2200 mm on two decks
Stroke	12 mm
Inclination	11˚
Motor	4.0 kW, 400V
Tensioning of media	Upper deck side tensioned Lower deck end tensioned

Featured in ECO2

Technical specification

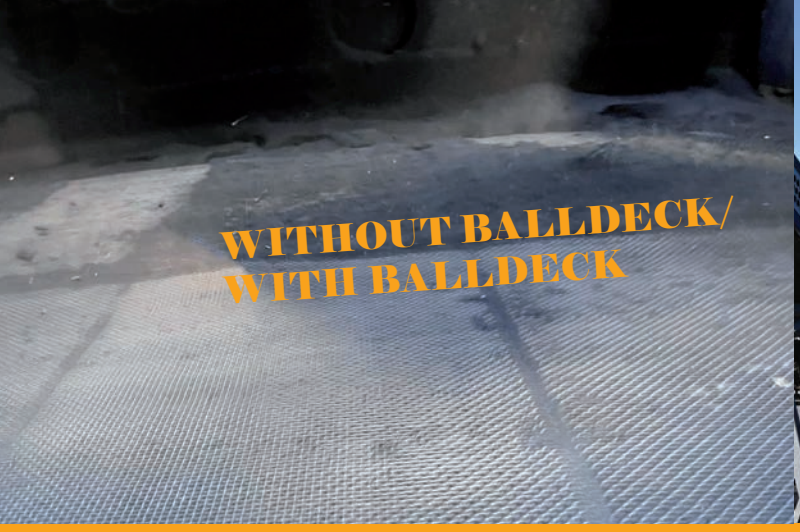
Model	STE 2-40
Screen area	1200 x 3300 mm on two decks
Stroke	12 mm
Inclination	11˚
Motor	7.5 kW, 400V
Tensioning of media	Upper deck side tensioned Lower deck end tensioned

Featured in ECO4

Technical specification

Model	STE 2-53
Screen area	1200 x 4400 mm on two decks
Stroke	12 mm
Inclination	11˚
Motor	11.0 kW, 400V
Tensioning of media	Upper deck side tensioned Lower deck end tensioned

Featured in SH 902



Balldeck

A ball deck helps to clear the screen surface effectively when handling damp or adhesive materials.

Inspection

All STE screens are equipped with inspection holes with openable covers on the sides to enable easy access to the screen decks.

Technical specification

Model	STE 2-67
Screen area	1400 x 4800 mm on two decks
Stroke	12 mm
Inclination	11˚
Motor	11.0 kW, 400V
Tensioning of media	Upper deck side tensioned Lower deck end tensioned

Featured in ECO6, Ls 1202, SH 1202

Technical specification

Model	STE 3-67
Screen area	1400 x 4800 mm on three decks
Stroke	12 mm
Inclination	11°
Motor	11.0 kW, 400 V
Tensioning of media	Upper deck side tensioned Lower decks end tensioned

Featured in Ls 1203, SH 1203

Technical specification

Model	STE 2-94
Screen area	1800 x 5200 m on two decks
Stroke	12 mm
Inclination	11˚
Motor	18.5 kW, 400V
Tensioning of media	All decks end tensioned

Featured in SH 1502

Technical specification

Model	STE 3-94
Screen area	1800 x 5200 m on three decks
Stroke	12 mm
Inclination	11°
Motor	18.5 kW, 400 V
Tensioning of media	All decks end tensioned

Featured in SH 1503

Your partner for productivity

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