

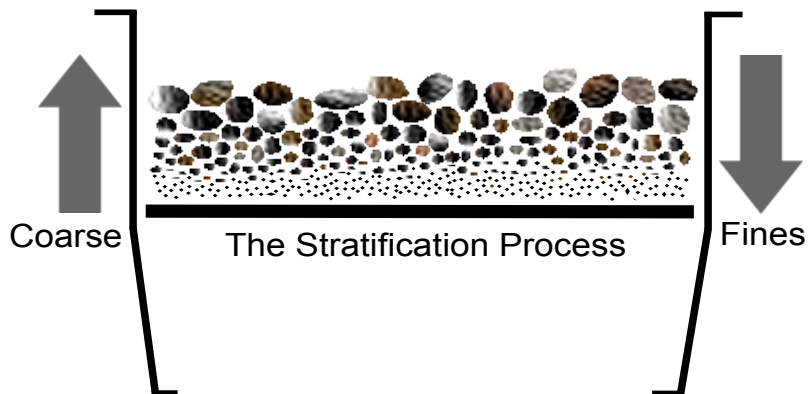
maskin mekanano

STE *screens*

Better technology. Better results.



The heart of the Maskin Mekano screening plant is of course the screen. The Maskin Mekano STE-screen range combines quick fines removal and excellent separation accuracy in an exceptional way. The secret is the combination of a powerful stroke and a relatively level gradient. Learn more about the unique prestanda of the STE-technology.



The STE screen's powerful stroke (12 mm) provides quick and effective stratification. The vibration of the machine sifts the material bed so that finer material passes through the coarser material. The fines material is forced through the meshes early on in the process. This provides high capacity.

At the same time, the screen's relatively level gradient (11-13°) guarantees effective separation of grain boundaries, providing sharp screening curves also on fine and short fractions such as 0-2, 2-4, 4-8, 8-11 and 11-16.

This provides high quality.

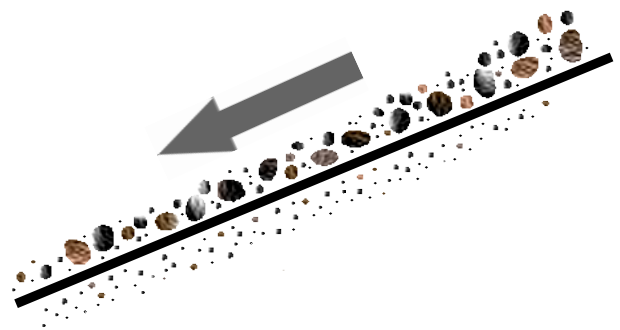
## Conventional screentypes

### Speedy fines removal

In sorting where speedy fines removal has been required the free-fall screen has been a common solution. The passing-through speed has been high, resulting in a thin layer of material. Unfortunately the high speed has led to unclean end fractions and this type of screen is not suitable for high quality end fractions.

#### Traditional free-fall screen

- + High capacity of easily sorted material
- Unclean end fractions (low accuracy)
- Unsharp screening curves



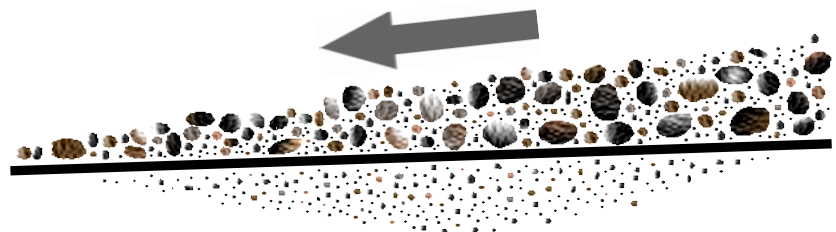
Traditional free-fall screen  
High speed

### Quality end fractions

Sorting of quality material has always required horizontal screens. To get an effective stratification the material transport speed has been low. This has resulted in thick material layers which traditional techniques have solved by making the screen even bigger. This has made the screens expensive to build and screening media costly.

#### Traditional horizontal screen

- + Good separation accuracy at a low feeding speed
- Big and heavy-handed screens
- Expensive and time consuming changes of screening media



Traditional horizontal screen  
Low speed

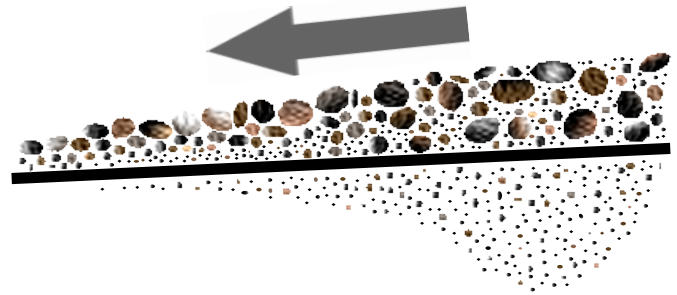


## The unique STE-screen

The STE-screen has a low inclination. It is designed for high quality screening. The screen is flat and long in order to give the grain boundaries time to pass through the right meshes. The uniqueness of the STE-screen is the powerful stroke which cascades the material layer. The fines material is forced through the meshes. The process of stratification is generated by vibrations in the material layer. The strong stroke makes the process so much faster. And the result is a screen that delivers clean end fractions and high capacity. It is almost horizontal to provide accuracy. It has a strong stroke to provide capacity.

### The STE-screen

- + Sharp screening curves
- + High capacity

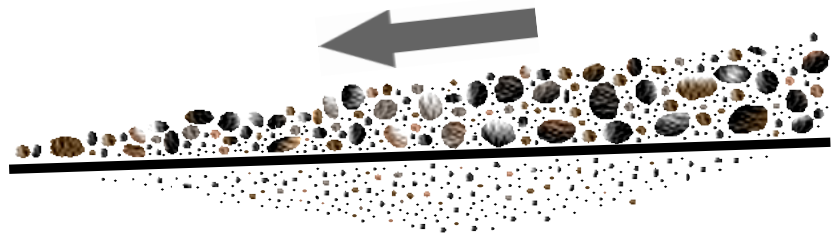


The STE-screen  
Low speed  
Effective separation

## The STE-screen vs Traditional horizontal screen

### Traditional horizontal screen

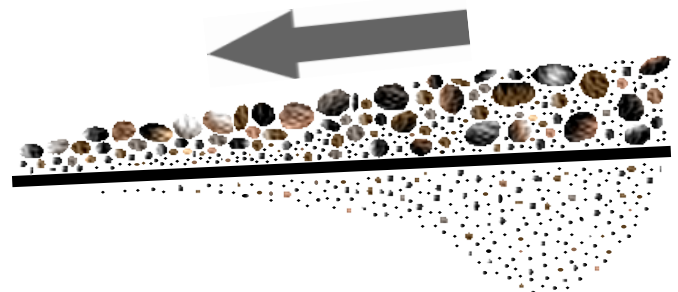
The low passing-through speed makes the material layer thick, the stratification ineffective and the fines removal becomes slow. This means that most of the screening surface is already used when the separation of grain boundaries starts.



Traditional horizontal screen  
Slow fines removal

### The STE-screen

The STE-screen is different. The speedy and effective stratification results in an immediate fines removal. This optimizes the use of the screening surface and enables the grain boundaries to pass through the right meshes.



The STE-screen  
Speedy fines removal

Property	Effect	Result
Powerful stroke	Effective stratification	High capacity
Flat gradient	Effective separation	High accuracy



## Technical Data Maskin Mekano STE 2-24

<b>Manufacturer</b>	Maskin Mekano
<b>Model</b>	STE 2-24, 2 decks
<b>Type</b>	Single axle four-bearing
<b>Stroke</b>	12 mm
<b>Inclination</b>	11°
<b>Screening area</b>	2,0x1,2 m per deck
<b>Screenbox</b>	Huckbolted, reinforced by welding
<b>Screen tensioning</b>	Upper deck side tensioned Lower deck end tensioned
<b>Motor</b>	Electric motor 5,5 kW, 380 V
<b>Operation</b>	approx. 800 rpm

## Technical Data Maskin Mekano STE 2-53

<b>Manufacturer</b>	Maskin Mekano
<b>Model</b>	STE 2-53, 3 decks
<b>Type</b>	Single axle four-bearing
<b>Stroke</b>	12 mm
<b>Inclination</b>	11°
<b>Screening area</b>	4,4x1,2 m per deck
<b>Screenbox</b>	Huckbolted, reinforced by welding
<b>Screen tensioning</b>	Upper deck side tensioned (three units at 1.5 m) Lower deck end tensioned (two units at 2.2 m)
<b>Motor</b>	Electric motor 11 kW, 380 V
<b>Operation</b>	approx. 800 rpm

## Technical Data Maskin Mekano STE 3-78

<b>Manufacturer</b>	Maskin Mekano
<b>Model</b>	STE 3-78
<b>Type</b>	Single axle four-bearing
<b>Stroke</b>	12 mm
<b>Inclination</b>	11°
<b>Screening area</b>	4,8x1,6 m per three decks Upperdeck incl. prescreening surface 5,6x1,6
<b>Screenbox</b>	Huckbolted, reinforced by welding
<b>Screen tensioning</b>	All units sidetensioned
<b>Motor</b>	Electric motor 16 kW, 380 V
<b>Operation</b>	approx. 800 rpm