

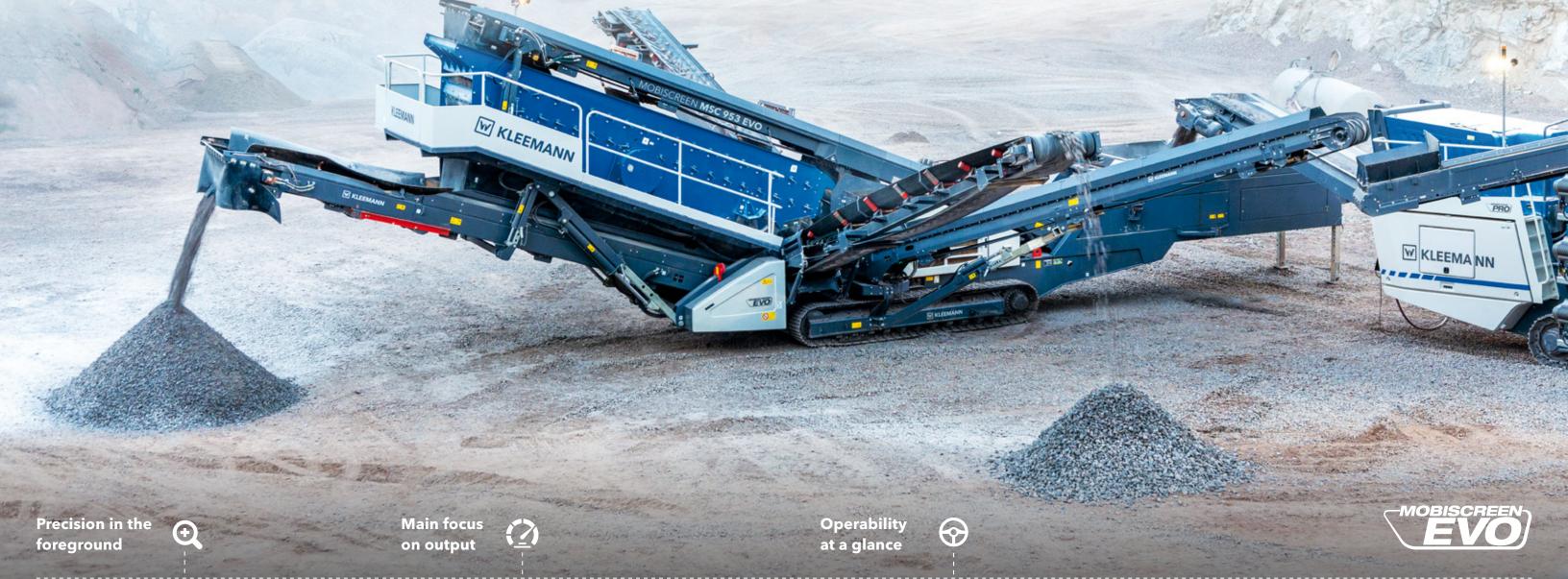
MOBISCREEN MSC 702 | 703 | 952 | 953 EVO

Where flexibility meets precision.

The MOBISCREEN MSC EVO classifying screens stand out with their flexibility, excellent transport properties, fast set-up times and efficient operation - and all this with the best performance values. The screening plants are available in double-deck or triple-deck versions.

The MOBISCREEN MSC EVO mobile screening plants are designed for many different application conditions and feed materials in natural stone and recycling. In spite of the wide variety of tasks, the exact separation of fractions is clearly the highest priority. High precision is achieved thanks to an optimal material flow, the best possible utilization of the screening surface and the simple adjustment of screening parameters

such as screening angle and vibrating amplitude. This applies both to individual applications as well as the interlinked combination of plants. Operation of the screening plants takes place via a mobile control system, which means that all functions are easy to control and operating status and machine functions can be viewed at any time.



MOBISCREEN MSC EVO | HIGHLIGHTS

THE HIGHLIGHTS

Perfectly equipped.

01 Feed hopper

- > Feed hopper with large holding capacity
- > Simple material flow thanks to variable hopper widths

02 Feeding conveyor

> Extra-wide feeding conveyor for efficient use of the screening surface

03 Screen

> Large setting and adjustment range of screen angle

the sustainability objectives of the WIRTGEN GROUP.

04 Control system

- > Simple operating concept reduces the risk of operating errors
- > Automatic start and stop for quick production start and
- > With SPECTIVE CONNECT, important information is available on your smartphone

05 Drive

- > Clever hydraulics concept for efficient power transmission
- > Start-Stop system (option) for reduced consumption in idle phases
- > Option of external power supply

> Material flow

- > Optimized material guidance for high throughput
- > Line coupling for process- and safety-related linking of plants

> Safety & ergonomics

> Fast and ergonomic servicing thanks to excellent accessibility

> Transport

> Simple transportation and fast set-up

Environmentally friendly solutions

- > Reduced dust and noise
- > Low fuel consumption



MOBISCREEN MSC EVO | FEED HOPPER

A WELL-DESIGNED FEED HOPPER

The first step towards an optimized material flow.





The MSC EVO classifying screen's feed hopper is generously sized and designed for optimum material flow.

The feed hopper has a large holding capacity and can be loaded conveniently with a wheel loader. Two size variants are available: 10.5 yd³ and 13 yd³. The 13 yd³ hopper, which is

available as an option, can be loaded with a wheel loader with a shovel width of up to 16 ft.





Foldable slotted grate and vibrating slotted grate

To prevent damage to the screen surfaces by excessively large feed material, the feed hopper is equipped as standard with a foldable slotted grate with a gap width of 4.3". Any existing clogged material can be released conveniently using the mini radio remote control via the hydraulic automatic folding device.

A double-deck vibrating slotted grate is available as an option, which can be equipped with a wire mesh in the lower deck.

This enables very coarse, damp and / or sticky material to be sorted out and the plant to be fed with a defined grain size.

KLEEMANN > GOOD TO KNOW

The conveying speed of the hopper discharge conveyor can be controlled steplessly. The layer thickness on the feeding conveyor can therefore be adjusted to achieve optimum product quality combined with a high material throughput.



MOBISCREEN MSC EVO | FEEDING CONVEYOR

A WIDE FEEDING CONVEYOR

For homogeneous material distribution.

The extra-wide feeding conveyor ensures uniform material distribution, which results in efficient screening surface utilization and optimized throughput performance.

The MOBISCREEN MSC EVO screening plants feature a 48"-wide feeding conveyor, which is available in a smooth or cleated design.







Uniform material transport - including wear protection

The adjustable impact bar on the feeding conveyor guarantees even distribution of the feed material over the complete width of the screen casing. Via the robust impact plate (wear plate), 02 the feed material slides smoothly onto the first screen media which significantly increases its service life. The movable feeding conveyor allows optimal loading via the impact plate at different screening angles and with different material compositions.

Three return roller guards installed above the feeding conveyor prevent uncontrolled rolling back and jumping of stones.

The material blankets (option) at the screen extend the dwell time of the material and prevent the feed material from jumping over onto the upper deck. Both elements, depending on the feed material, ensure uniform material transport. In addition to the flat scraper installed as standard, the front scraper (option) ensures even better cleaning of the feeding conveyor, especially with very fine and sticky feed material.



01 Impact bar

02 Impact plate (wear plate)

MOBISCREEN MSC EVO | SCREENING

EFFECTIVE SCREENING

For best results.

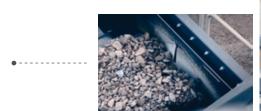


Optimum distribution of the material on the screening surface is guaranteed by adapting the screening angle to the material properties. Productivity and classification accuracy are therefore increased. Thanks to excellent accessibility from all sides and the quick-clamping wedge system, a simple screen surface change is guaranteed.

Large selection of screen surfaces for application flexibility

The wide range of screen media enables high application flexibility. Screen beaters can be used for sticky and/or damp feed material to clear blocked screen media again by knocking and therefore maintaining screening efficiency even under difficult conditions.







KLEEMANN > GOOD TO KNOW

The layout of the oversize grain conveyor can be configured on the left or right. High flexibility in the machine layout in combination with upstream KLEEMANN crushing plants can therefore be guaranteed.

18 - 32

32 - 100

0 - 150

0 - 150

0 - 10

75 ft²

Screening surface MSC 702/703 EVO

102 ft²

Screening surface MSC 952/953 EVO

Screen angle setting ranges

20 - 38°MSC 702 EVO

20 - 30°MSC 703 EVO

20 - 31° MSC 952 EVO

20 - 27.5° MSC 953 EVO

MOBISCREEN MSC EVO | CONTROL SYSTEM

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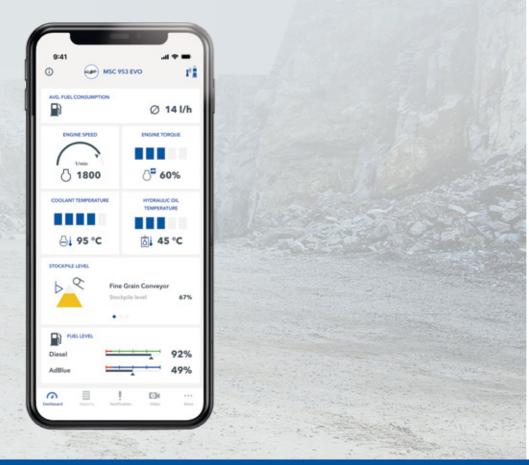
INTUITIVE CONTROL

For simple handling.

With the increasing demands that are placed on modern screening plants, their complexity also increases. At the same time, the technology must be safe and as simple as possible to master - without long training sessions. This is precisely where the strength of the MOBISCREEN MSC screening plants' intuitive operating concept lies.

With the easy-to-use control via a mobile operating device, the handling of the classifying screens is user-friendly and intuitive. The operating concept, which impresses with easy-tounderstand symbols, reduces the risk of operating errors and facilitates work.





Hardware components

The mobile, wired operating device can be connected on three sides of a plant. The functions to be carried out can be optimally viewed at a safe distance, which ensures a high level of work safety. Machine status such as diesel consumption or an initial fault detection can also be viewed at a glance.

An optional radio remote control is also available for comfortable control of the driving functions, the slotted grate and the hopper discharge conveyor. The hopper discharge conveyor can also be switched on and off and its speed can be adjusted. In the standard equipment, a mini radio remote control

complements the wired operating device which permits convenient operation of the foldable slotted grate from the wheel loader.

SPECTIVE CONNECT

With SPECTIVE CONNECT (optional), operators have all relevant data on speed, consumption values and fill levels on a

smartphone or tablet, prepared in a clearly arranged manner. SPECTIVE CONNECT also offers detailed troubleshooting aids to assist with service and maintenance. The stockpile monitoring function provides a display of the current status of material stockpiles. When a certain predefined value is reached, the operator receives a message that the stockpile should be cleared as soon as possible. This facilitates work and increases productivity.

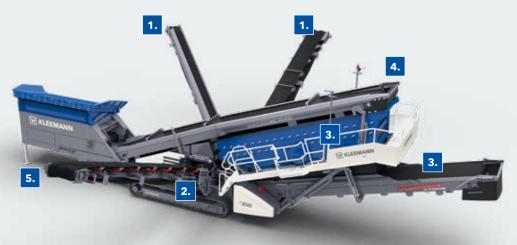
John Deere Operations Center™

The MSC EVO classifying screens are completely integrated in the John Deere Operations Center™ – the central and user-friendly telematics platform of the WIRTGEN GROUP for professional management of complete construction sites. It networks operators, plants, site managers and dispatchers, supports the simple planning of maintenance intervals through integrated maintenance plans and thus contributes to higher machine availability and value retention. In addition, relevant machine data provides a valuable basis for the efficient control of machine deployment and forward-looking project planning.

KLEEMANN > GOOD TO KNOW

Automatic mode for quick production start

Automatic mode is an additional positive feature. After the diesel engine is switched on via the push-button, the plant is started up and all subsections and conveyors automatically start up one after the other. This ensures the correct starting sequence and the plant is quickly ready for production. Operating errors are ruled out!



Automatic mode

Safe and quick production start and stop can

Mobile, wired operating device can be connected on three sides

Radio remote control for operation of

driving functions, slotted grate and hopper discharge conveyor

MOBISCREEN MSC EVO | DRIVE

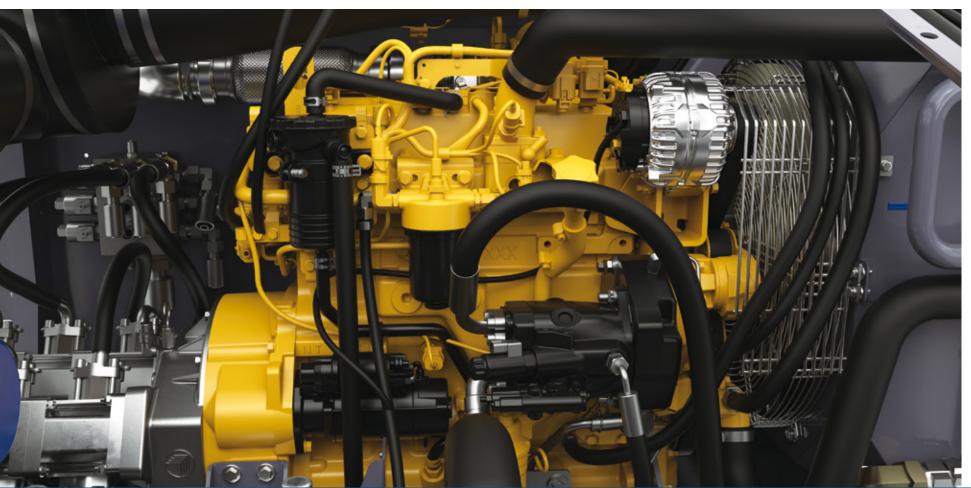
POWERFUL H-DRIVE

For efficient power transmission.

The MOBISCREEN MSC EVO classifying screens have a well-thought-out hydraulic concept that guarantees efficient power transmission.

The MSC EVO plants excel with their powerful H-DRIVE diesel-hydraulic drive concept and reduced operating costs. All maintenance-relevant components are easily accessible.

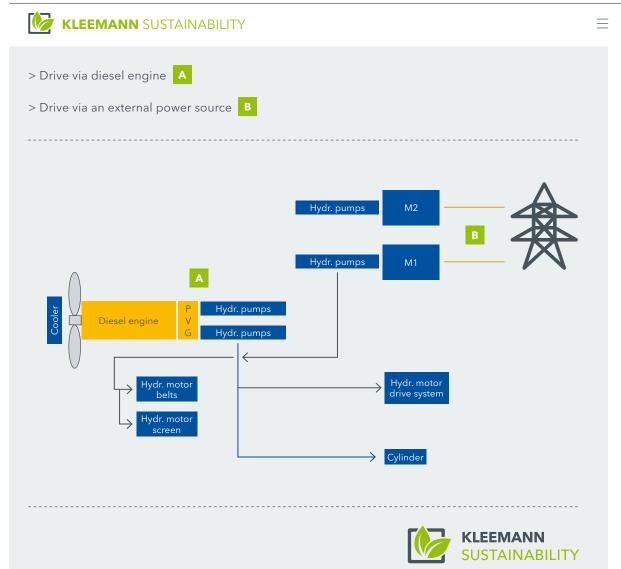
Service intervals for changing engine oil and filters are designed for maximum intervals.



Efficient drive

The classifying screens are equipped with an optional Start-Stop system, which can considerably reduce consumption in idling phases. The optional electro-hydraulic Dual Power drive enables electrical operation via an external power supply. Emission-free work is therefore possible as well as lower operating costs.





Diesel-hydraulic



98 hp

Drive power MSC 702/703 EVO

131 hp

Drive power MSC 952/953 EVO

MOBISCREEN MSC EVO | MATERIAL FLOW

OPTIMIZED MATERIAL FLOW

For high throughput.

An optimal material flow on classifying screens is indispensable if you want to process large volumes efficiently.

On the MOBISCREEN MSC EVO classifying plants, the feed hopper width opens in the direction of the material flow. The material is thus transferred perfectly from the hopper discharge conveyor onto the complete width of the generously dimensioned feeding conveyor.

the speed of the hopper discharge conveyor, it makes uniform material feeding on the screen possible. The impact bar on the belt discharge guarantees homogeneous material distribution on the screening surface.

High discharge

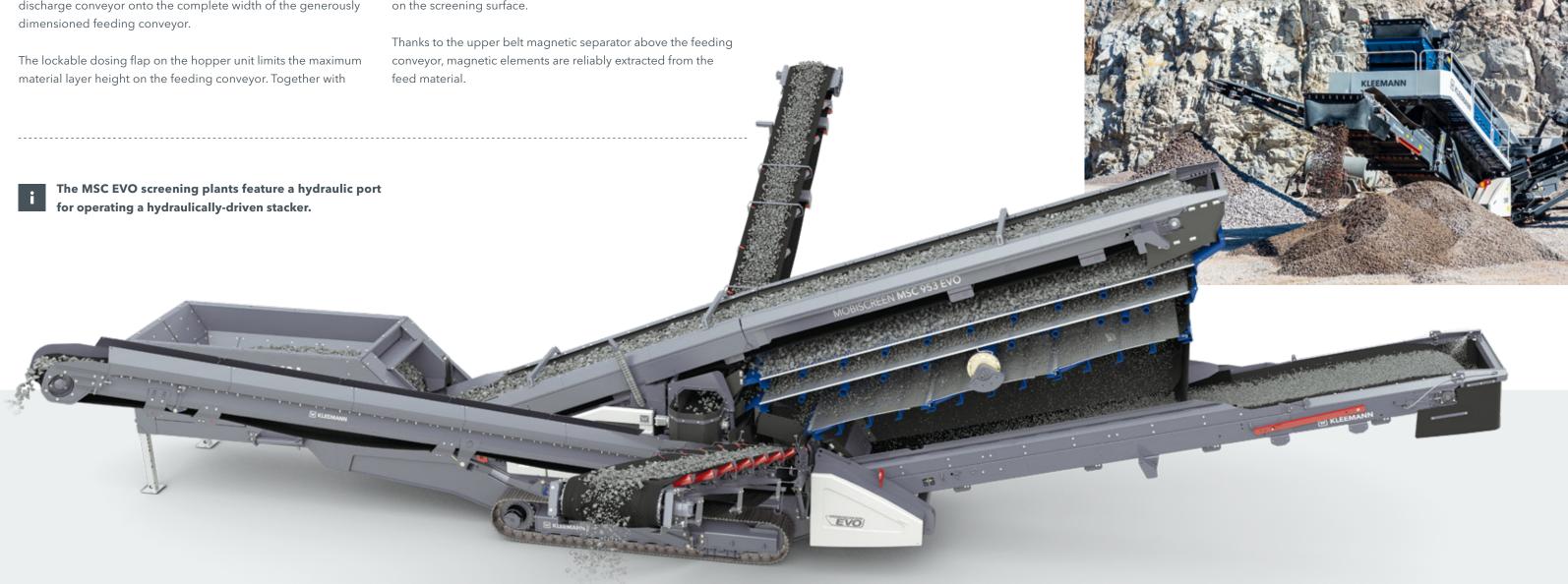
The discharge heights of the discharge belts are designed to the highest possible level, which increases the stockpile volume and with it, the time intervals for clearing the the stockpiles. The use of the wheel loader and the associated costs are therefore reduced.

The discharge height of the fine grain discharge conveyor can be flexibly adjusted so that a transfer of the screening material to a downstream crusher can be optimally adapted.

The conveying speed of all discharge conveyors is infinitely adjustable and can therefore be fine tuned.

Line coupling - process and safety linking

For smooth material flow across several crushing and screening stages, the classifying screens can be equipped with the line coupling option. A process and safety linkage with all KLEEMANN plants from the EVO and PRO series is possible. The stockpile probe required for the process coupling can be placed on any of the plant's discharge conveyors or on all of them at the same time more application flexibility.



MOBISCREEN MSC EVO | SAFETY + ERGONOMICS

SAFETY AND ERGONOMICS

For high operating comfort.







All machine components of the classifying screen plants are exceptionally easy to access to guarantee trouble-free production, simple operation and fast service.

Convenient screen surface changes

The plants are equipped with long and wide platforms safe screening surface changes surface and other maintenance work. The screen casing can be installed in the lower deck in a maintenance position for ergonomic screen surface changes.

Additional options increase operating comfort

Standard LED lighting is already included in the basic plant, the optional premium lighting enables even better illumination of the work platforms and the direct vicinity of the screening plants.

Safety in the foreground

The MSC EVO classifying screen plants are ideally configured for safety as well. For instance, all cylinders relevant to function and safety are equipped with lowering brake valves. Even if a hydraulic line is damaged, the respective cylinder stays in its current position - to protect the machine operator and the machine. Safety on the work site is also increased thanks to plant operation via the mobile operating device and therefore at a safe distance and with an ideal view.

MOBISCREEN MSC EVO | TRANSPORT

SIMPLE TRANSPORT

Quickly on site.

The MSC EVO classifying screens are extremely versatile and very easy to transport thanks to their compact dimensions.

The side discharge conveyors are hydraulically folded and remain on the machine for transport. Thanks to the mobile operating device, set-up is very simple, fast and can be carried out from a safe distance. Precise loading and positioning of the

plant is convenient thanks to stepless drive control. High ground clearance prevents the plant from contacting the ground during loading and unloading and enables spacesaving positioning on the low loader.

Transport height

- > MSC 702 EVO/MSC 703 EVO: 11' 2"
- > MSC 952 EVO/MSC 953 EVO: 11' 1"

Transport length

- > MSC 702 EVO/MSC 703 EVO: 54' 3"
- > MSC 952 EVO/MSC 953 EVO: 58' 11"

Transport width

- > MSC 702 EVO/MSC 952 EVO: 9' 10"
- > MSC 703 EVO/MSC 953 EVO: 10' 6"

W KLEEMANN







24 | 25 MOBISCREEN MSC EVO | ENVIRONMENTALLY FRIENDLY SOLUTIONS

ENVIRONMENTALLY FRIENDLY SOLUTIONS

For a green future.





The MSC EVO classifying screen plants are equipped with several environmentally friendly innovations.

The screening plants feature engines that comply with current exhaust emission regulations and boast low fuel consumption.

In the idling phases, in particular, consumption can be reduced further with the optionally available **Start-Stop system**:

- > A probe detects if no material is supplied over a defined
- > The conveying speed of the belts is reduced, which reduces wear (engine, belts, support rollers) and consumption
- > When material starts being supplied again, the plant is restarted and enters production mode
- > Automatic operation ends if no material is subsequently conveyed for a defined period, with the option to switch off the engine as well



Reducing dust volume

For dust reduction, the MSC EVO screening plants have an optional water spray system at the fine grain conveyor. An additional electric water pump is available as optional equipment for self-sufficient supply of the spray system.

The dust load can also be reduced with an optional belt cover for the feeding conveyor and fine grain conveyor.

An optional dust seal between the feeding conveyor and screen casing additional ensures reduced dust emissions and improved protection against rock spillage on the upper deck.



MOBISCREEN MSC EVO | SPARE PARTS

SCREENING TECHNOLOGY

Ideally matched screen media ensure optimum results.

Screening media are put to a tough test on a daily basis. In order to ensure the permanent and reliable screening of the desired material, original KLEEMANN screen media are subject to exceptionally high quality standards.

The screening result itself is determined by numerous factors. The key influencing factors include the grain shape, the humidity content and the feed volume. A large selection of screen surfaces are available for KLEEMANN classifying screen plants

which can be equipped depending on the application and desired end result. Now this is what we call flexibility in the application!



O1 Square mesh/ rectangular mesh

- > For screening fine and medium coarse material
- > Different wire qualities and thicknesses available (thicker = longer life, thinner = higher production)

Harp screen

- Recommended for particularly damp and sticky material that is difficult to screen
- > With self-cleaning effect through the natural vibration of the longitudinal wires

Screen casing

- > Double-deck screen casing
- > Triple-deck screen casing

Screening unit on feed hopper - foldable slotted grate Screening unit on feed hopper - vibrating slotted grate 07

Foldable slotted grate cover

- > For separating feed material, gap width of 4"
- > Foldable slotted grate rods are supported on one side but can swing freely and release clogged material when the grate is folded up

Foldable slotted grate

> For supporting the surface, with tilting function

VIBRATING SLOTTED GRATE - UPPER DECK

Slotted grate

- > For separating feed material from coarse material
- > Gap width 4"

VIBRATING SLOTTED GRATE -LOWER DECK

07 Square mesh

- > For screening fine and medium coarse material
- > For loading the plant with a defined grain size

Screen casing for vibrating slotted grate (optional) on feed hopper

> Double-deck prescreen

MOBISCREEN MSC EVO | TECHNICAL DATA

TECHNICAL DATA AT A GLANCE

MOBISCREEN MSC 702 | 703 | 952 | 953 EVO



MSC 702 EVO

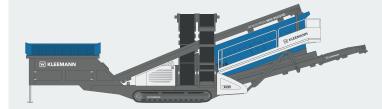
- > Screen decks: 2
- > Screening surface: 5' 1" x 14' 9"
- > Weight: 71,400 81,900 lbs*

TECHNICAL DATA

MSC 703 EVO

- > Screen decks: 3
- > Screening surface: 5' 1" x 14' 9"
- > Weight: 78,150 88,800 lbs*





MSC 952 EVO

- > Screen decks: 2
- > Screening surface: 5' 1" x 20'
- > Weight: 77,100 87,750 lbs*

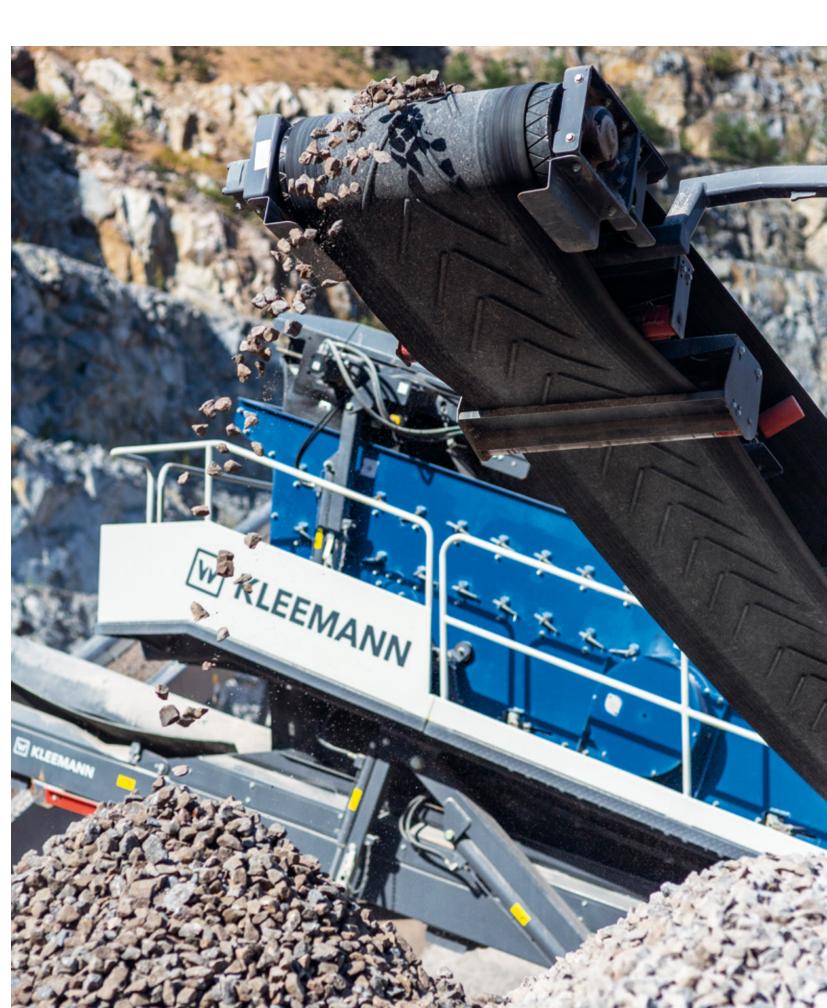
TECHNICAL DATA



MSC 953 EVO

- > Screen decks: 3
- > Screening surface: 5' 1" x 20'
- > Weight: 85,500 96,150 lbs*

* Transport weight of basic plant - max. configuration







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