

Technical information

MOBISCREEN MSC 953 EVO



Track-driven screening plants

For use in natural stone and recycling

MOBISCREEN MSC EVO

Series

HIGHLIGHTS

- > Classifying screening plant
- > Mobile triple-deck screening unit
- > Screen box size 9.5 m²
- > H-DRIVE diesel-hydraulic drive
- > Maximum feed size 160 x 100 x 60 mm
- > Efficient upgrade kit for wet classification

Mobile classifying screening plant with upgrade kit for wet classification

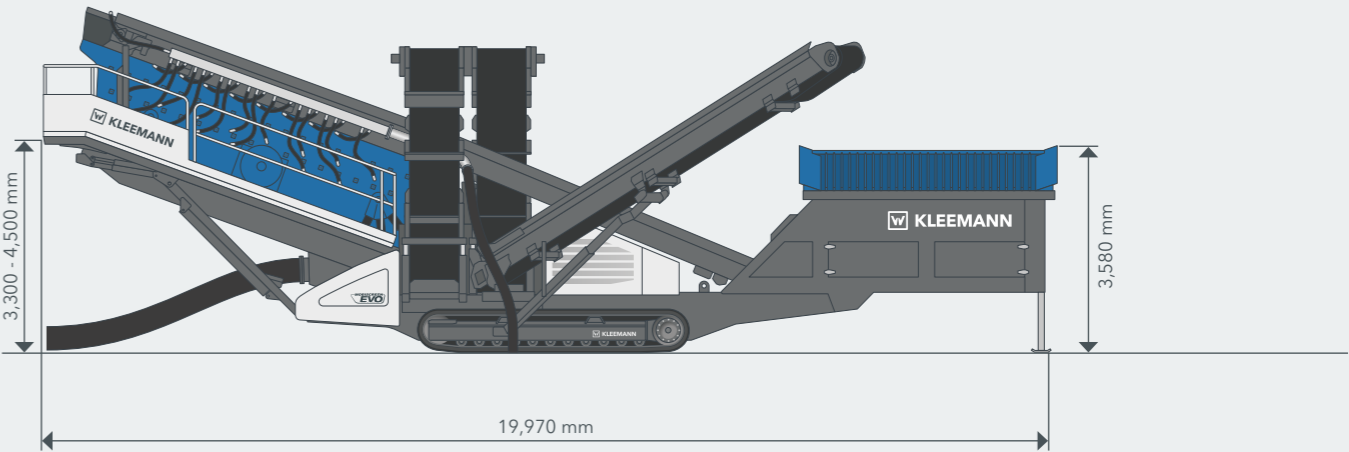
The MOBISCREEN MSC 953 EVO equipped for wet classification is a powerful and flexible solution for a variety of washing applications in the area of rock and stone processing, sand and recycling. It can be easily integrated in different washing processes and if required can be modified to a classifying screen for dry screening.



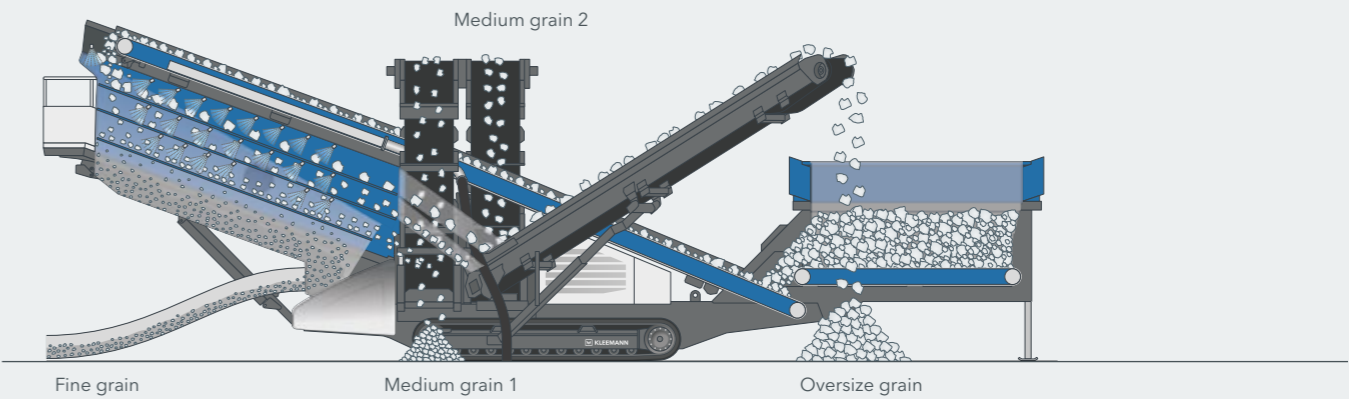
TECHNICAL DATA	MSC 953 EVO
Feeding unit	
Max. feed size (mm)	160 x 100 x 60
Feed height – tipping grid (mm)	3,580
Hopper volume (m³)	8
Hopper discharge conveyor	
Width x length (mm)	1,200 x 3,500
Feeding conveyor	
Width x length (mm)	1,200 x 12,000
Screening unit	
Type	Triple-deck classifying screen
Width x Length (mm)	1,550 x 6,100
Washing unit	
Water supply line (nominal diameter)	DN 150
Water quantity at max. 3 bar up to (m³ / min)	6
Sand slurry outlet (nominal diameter)	DN 250
Discharge conveyor overflow lower deck (medium grain)	
Width x length (mm)	800 x 10,200
Discharge height approx. (mm)	5,000
Discharge conveyor overflow centre deck (medium grain)	
Width x length (mm)	800 x 10,200
Discharge height approx. (mm)	5,000
Transfer conveyor	
Width x length (mm)	650 x 1,800
Discharge conveyor overflow upper deck (oversize grain)	
Width x length (mm)	500 x 8,900
Discharge height approx. (mm)	5,020
Power supply unit	
Drive concept	diesel-hydraulic
Power pack manufacturer	John Deere
Power supply unit output (kW)	87 – 99 ¹⁾
Transport position dimensions	
Height approx. (mm)	3,385
Length approx. (mm)	17,600 ²⁾
Width approx. (mm)	3,200
Transport weight of basic plant – max. equipment approx. (kg)	37,000 - 44,500

¹⁾ depending on the respective emissions standard ²⁾ with tipping slotted grid

OPERATING POSITION



MATERIAL FLOW



Thanks to compact transport dimensions, short set-up times and a large selection of screen media, the MSC EVO classifying screening plants can be used flexibly. In order to process large quantities efficiently, the material flow is designed optimally: starting with the feed hopper, which is widened in the material flow direction, to the wide feeding conveyor through to the generously dimensioned

screening surface. The efficient upgrade kit for wet classification has 8 independently controlled spray bars on the top and middle deck as well as 6 spray bars in the bottom deck. The catch-box can be raised and lowered hydraulically, which simplifies changing the screen in the bottom deck.

STANDARD EQUIPMENT

- > Triple-deck classifying screen
- > Hopper unit 8 m³
- > Dosing flap on hopper unit for continuous material flow
- > Tipping slotted grid, gap width 100 mm, hydraulic folding (small radio remote control)
- > Feeding conveyor, smooth belt with flat scraper
- > Removable, wired machine control system used for controlling all driving and movement functions, adapting settings and reading out machine data and troubleshooting aids
- > John Deere Operations Center™: platform for digital solutions for optimising processes, machines and services – and to simplify maintenance planning
- > Efficient upgrade kit for wet classification with 8 independently controlled spray bars on the top and middle deck as well as 6 spray bars in the bottom deck. Wash box for flooding the dry feed material, catch-box can be raised and lowered hydraulically
- > Standard-compliant lighting concept for illuminating the work platforms and the chain drives when in motion

OPTIONS

- > SPECTIVE CONNECT displays all important machine information along with the current status of material stockpiles (stockpile monitoring) directly on your smartphone
- > Hopper unit 10 m³
- > Vibrating slotted grate, middle gap width in the upper deck: 110 mm, lower deck optionally covered with square mesh
- > Cleated feeding conveyor prevents the feed material from rolling back when there is a low or no fine and medium grain content
- > An additional head scraper is mounted on the feeding conveyor (if no chevron is installed)

OPTIONS

- > Feeding conveyor anti-rollback device prevents the material from rolling back when there is a low or no fine and medium grain content
- > Material brakes to slow down feed material on the the top deck for more efficient screening
- > Oversize grain conveyor of the MSC 953 EVO can be configured on the left or right (Retrofit not possible)
- > An overbelt magnetic separator reliably extracts magnetic components from the feed material
- > External power supply – for efficient mains operation, possibility to change between two energy sources: Own propulsion (diesel engine) or external power supply
- > Start-stop system for low consumption in idle phases
- > Radio remote control: Crawler chassis, automatic folding function of the slotted grate, hopper discharge conveyor ON/OFF and speed setting, emergency stop
- > Remote control for tipping slotted grid, in addition to cable control (omitted if plant has radio remote control)
- > Line coupling for interlinking with other KLEEMANN plants, also available as wireless version
- > Large selection of screen media for all decks with different mesh sizes
- > Extra hydraulic power supply to run additional equipment such as a stacker or a sand screw
- > Raised engine air intake reduces dust
- > Dust seal between feeding conveyor and screen box reduces dust emissions and improves protection against flying rock on the upper deck
- > Premium lighting for extended illumination of the material flow (transfer points and stockpiles)
- > Storage compartment for tools and spare parts (cannot be combined with external power feed)
- > Breakaway cords on all relevant conveyor belts

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