

Technical information

MOBIREX MR 100 NEO MOBIREX MR 100 NEOe



Track-mounted impact crusher

For use in recycling and natural stone

MOBIREX NEO

Series

HIGHLIGHTS

- > Very compact design makes transport easy
- > Two drive concepts available: E-DRIVE diesel-electric drive / D-DRIVE diesel-direct drive
- > Diesel-electric, connection to external power supply
- > Fully hydraulic gap adjustment and overload system
- > High-performance secondary screening unit (optional) with large screening surface

The MOBIREX MR 100 NEO and MR 100 NEOe mobile im-
pact crushers

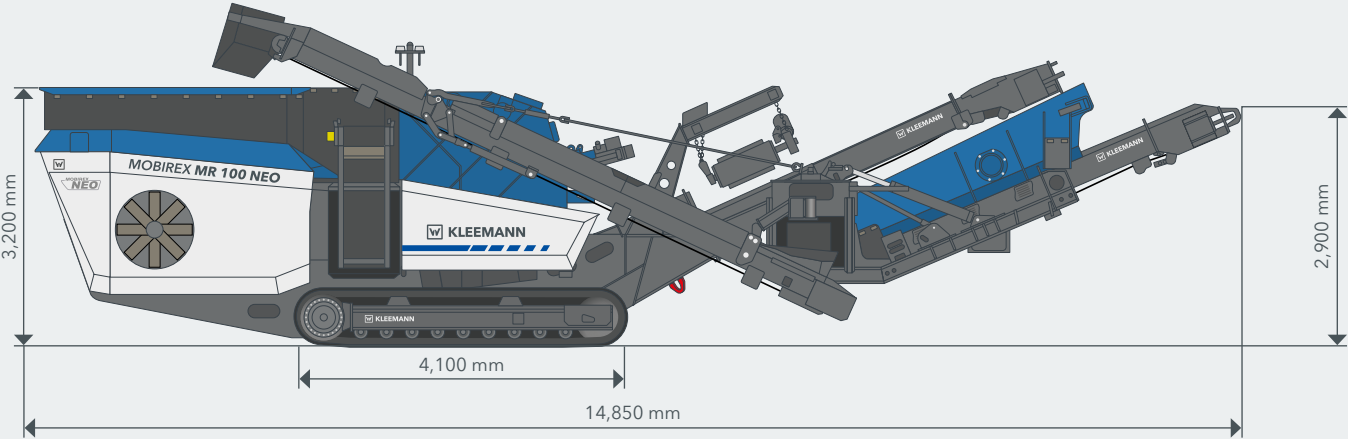
Thanks to their compact dimensions and low transport weight, the MOBIREX MR 100 NEO /NEOe can be used flexibly, quickly and in a very wide variety of applications – making it ideally suited for frequently changing work locations. The version with the E-DRIVE electric drive concept, with its option for an external power supply, enables future-proof operation.



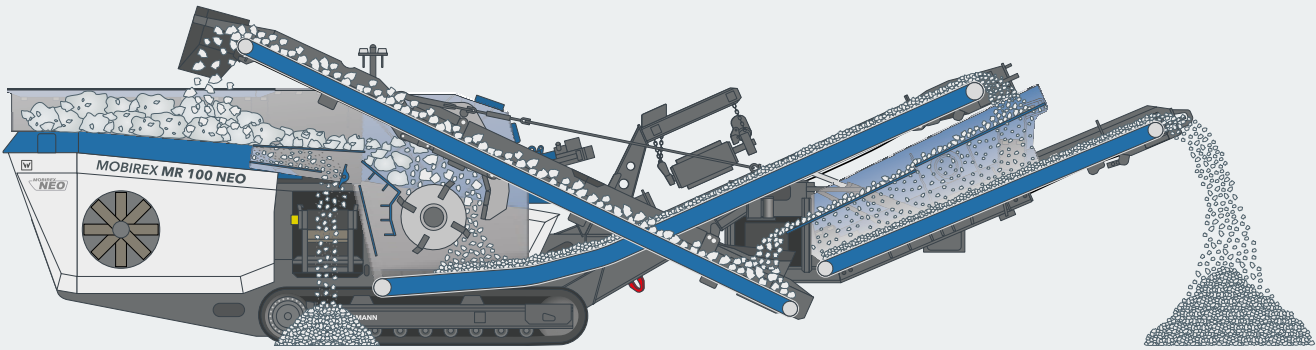
TECHNICAL DATA MR 100 NEO MR 100 NEOe			
Feeding unit ¹⁾			
Feed capacity up to approx. (t/h)	250		
Max. feed size (mm)	800 x 500 x 300		
Feed height (mm)	3,200		
Width x length (mm)	2,000 x 2,300		
Hopper (m³)	3.3		
Prescreening			
Type	Integrated prescreening (single-deck)		
Width x length (mm)	830 x 1,665		
Side discharge conveyor (optional)			
Width x length (mm)	500 x 3,900		
Discharge height (mm)	2,400		
Crusher			
Impact crusher model	SHB100-075		
Crusher inlet width x height (mm)	1,000 x 750		
Rotor diameter (mm)	1,000		
MR 100 NEO: Crusher drive type	direct		
MR 100 NEOe: Crusher drive type	Electric		
Crusher output up to (kW)	160		
Type of impact toggle adjustment	infinitely variable, fully hydraulic		
Crusher discharge conveyor			
Width x length (mm)	1,000 x 8,100		
Discharge height approx. (mm)	3,360		
E-DRIVE power supply unit (MR 100 NEOe)			
Drive concept	Diesel-electric		
Output (kW)	240		
Power pack manufacturer	John Deere		
Generator (kVA)	260		

D-DRIVE power supply unit	
Drive concept	diesel-direct ²⁾
Output (kW)	240
Power pack manufacturer	John Deere
Generator (kVA)	88
Post screening unit (optional)	
Type	Single-deck post screening unit
Width x length approx. (mm)	1,334 x 3,100
Return conveyor width x length (mm)	500 x 7,380
Discharge height fine grain conveyor approx. (mm)	2,850
Transport	
Transport height approx. (mm)	3,200
Transport length approx. (mm)	12,780
Transport length with screening unit approx. (mm)	14,880
Transport width approx. (mm)	2,550
Transport width with screening unit max. (mm)	2,950
Transport weight basic equipment approx. (kg)	29,000
Transport weight max. configuration approx. (kg)	38,000
Transport weight of screening unit approx. (kg)	5,500

OPERATING POSITION



MATERIAL FLOW



The MR 100 NEO /NEOe stands out with its very high final product quality. This is guaranteed not only by the powerful crushing unit with its 4-ledged rotor with a large impact range and versatile rotor ledge variants, but also by the 4 m² large, optional, single-deck post screening unit. This enables the production of a classified final grain size. Thanks to integrated oversize grain returning,

the post screening unit is designed such that it can be easily retrofitted via "plug & play". The use of the optional wind sifter can further optimise the final product quality by removing contamination in the material such as lightweight wood and plastic. The air flow can be easily controlled depending on the material.

¹⁾ incl. integrated vibrating feeder and prescreening
²⁾ all electric auxiliary drives

STANDARD EQUIPMENT

- > Hopper-vibrating feeder with integrated prescreening and frequency-controlled material transport
- > Bypass flap for rapid change-over from bypass flap to prescreen conveyor
- > Continuous Feed System (CFS) for optimum crusher loading
- > Fully hydraulic crusher gap adjustment
- > Automatic zero-point determination for precise gap setting via operating position
- > Integrated overload protection
- > Lock & Turn Quick Access: Simple and safe rotor ledge replacement and breaking up of material bridging via a separate SPECTIVE operating position, fast tool-free opening and closing of the crusher in approx. 30 seconds
- > **MR 100 NEOe: External power supply**
- > SPECTIVE SWITCH: simple adjustment of machine parameters
- > John Deere Operations Center™: platform for digital solutions for optimising processes, machines and services – and to simplify maintenance planning
- > Radio remote control: Moving and setting up the machine, simple adjustment of the operating parameters (e.g. crusher gap setting)
- > LED lighting
- > Water spray system for reducing dust
- > Cleated belt for crusher discharge conveyor

OPTIONS

- > Side discharge conveyor, hydraulically foldable, remains on machine for transport
- > Lifiable crusher inlet box cover for less material bridging in the inlet area
- > Lifting device for changing rotor ledges
- > Permanent magnet, attached flexibly by means of chains, adjustable transverse and longitudinal inclination, can be lifted and lowered hydraulically
- > Single-deck post screening unit for the production of a classified final grain size, with integrated swivel return conveyor
- > Belt scale available for crusher discharge conveyor and fine grain conveyor (post screening unit) with WPT Crushing for worldwide live recording of performance data and construction site progress in the John Deere Operations Center™
- > Wind sifter for cleaning oversize grain to remove foreign matter and lightweight material
- > SPECTIVE CONNECT for displaying all important machine information directly on the smartphone, additional trouble-shooting aids in the app
- > Quick Track for selecting machine operating mode quickly and easily, operation via radio remote control
- > Water pump with pressure monitoring
- > Premium lighting
- > Simple refuelling from the ground through refuelling pump
- > Rear collision guard for protection of the power pack chamber

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