

Technical information

MOBIREX MR 100 NEO MOBIREX MR 100 NEO_e



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 local CO₂-emission-free operation.

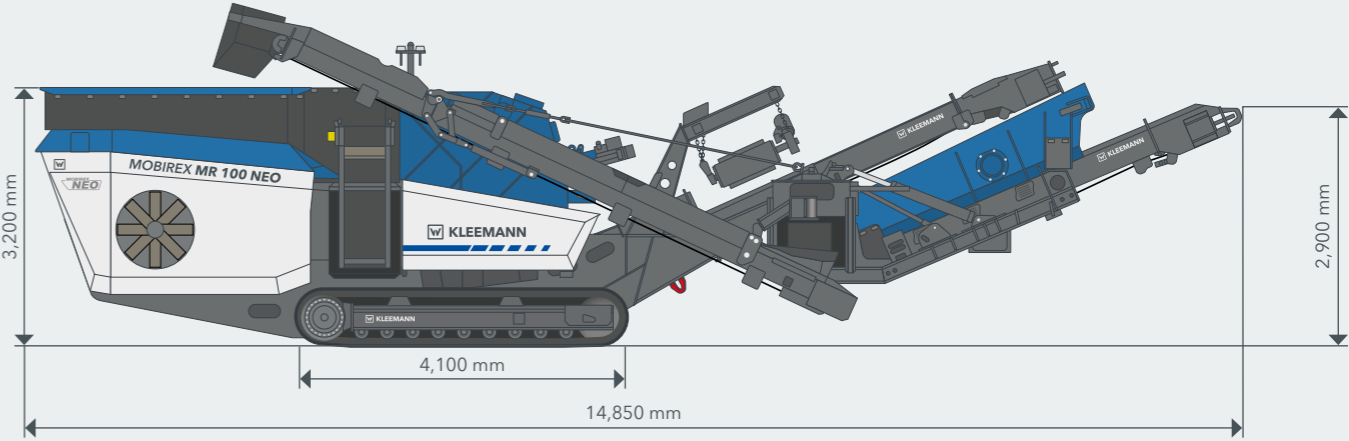


TECHNICAL DATA MR 100 NEO | MR 100 NEOe

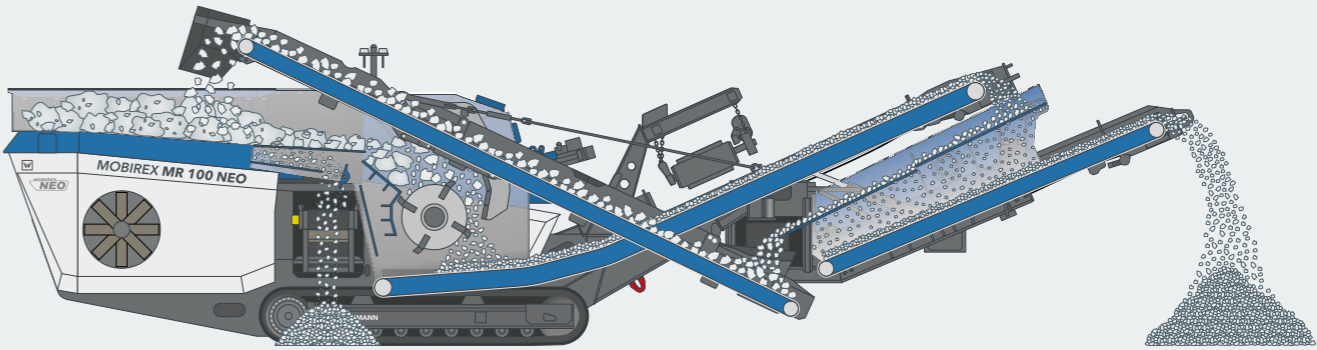
| Feeding unit ¹⁾ | |
|---|---------------------------------------|
| Feed capacity up to approx. (t/h) | 250 |
| Max. feed size (mm) | 800 x 500 x 300 |
| Feed height (mm) | 3,200 |
| Width x length (mm) | 2,000 x 2,300 |
| Hopper (m³) | 3.3 |
| Prescreening | |
| Type | Integrated prescreening (single-deck) |
| 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 for local CO₂-emission-free mains operation**
- > 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

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
- > Cleated belt for crusher discharge conveyor

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