

A WIRTGEN GROUP COMPANY



**KLEEMANN**



# MOBIREX NEO | NEOe

MOBILE IMPACT CRUSHER MOBIREX MR 100 NEO | MR 100 NEOe



> FROM A TO B WITH UNMATCHED EFFICIENCY.



# MOBIREX MR 100 NEO | MR 100 NEOe

Regardless of whether there is limited space on the job site or job sites frequently change – thanks to compact dimensions and a low transport weight, deploying the MOBIREX MR 100 NEO/NEOe is flexible, fast and highly versatile. With quick and convenient service thanks to easy physical and visual access to all components – in spite of its compactness. If the application area changes and the post screening unit is not required until a later time, it can be easily retrofitted thanks to the integrated return conveyor („plug & play“).



Focus on  
flexibility



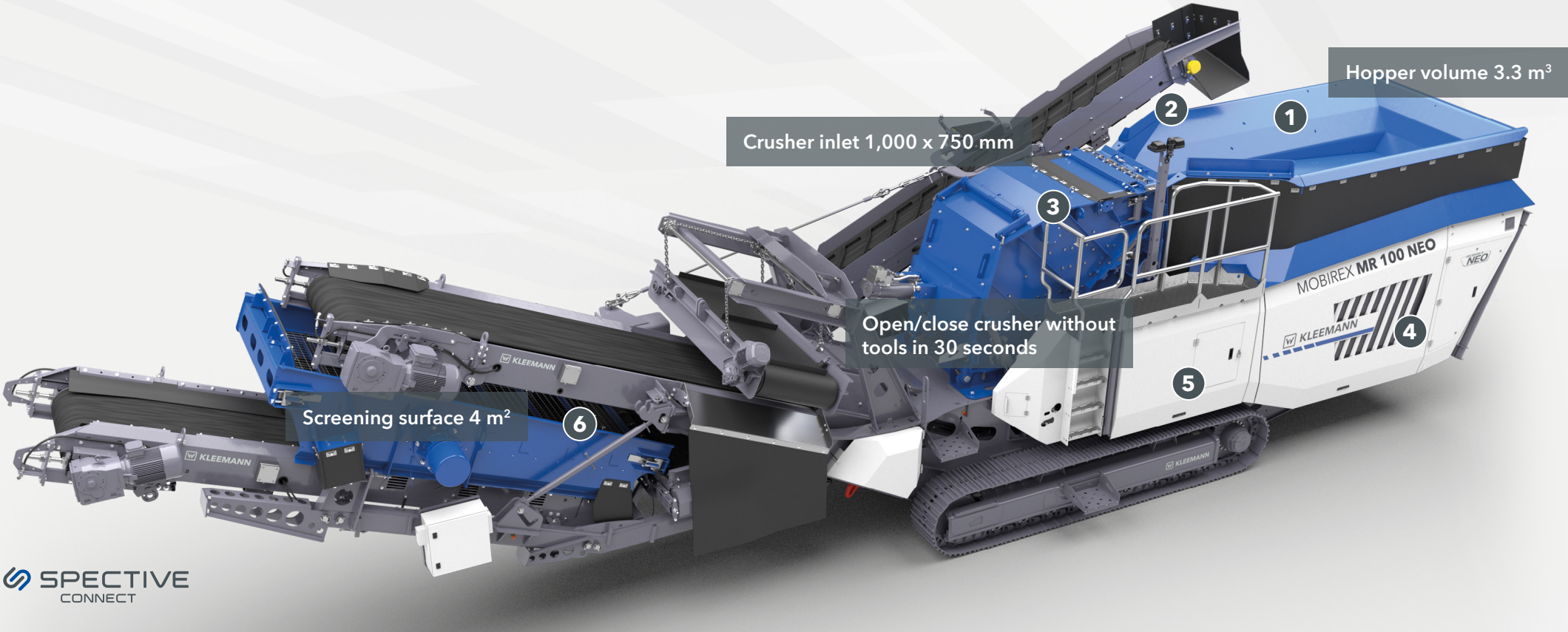
Operability in  
the foreground



An eye on  
sustainability



# MOBIREX MR 100 NEO | MR 100 NEOe



1 Feeding unit and prescreen

2 Continuous Feed System CFS

3 Crusher unit

4 Drive

5 Digital solutions

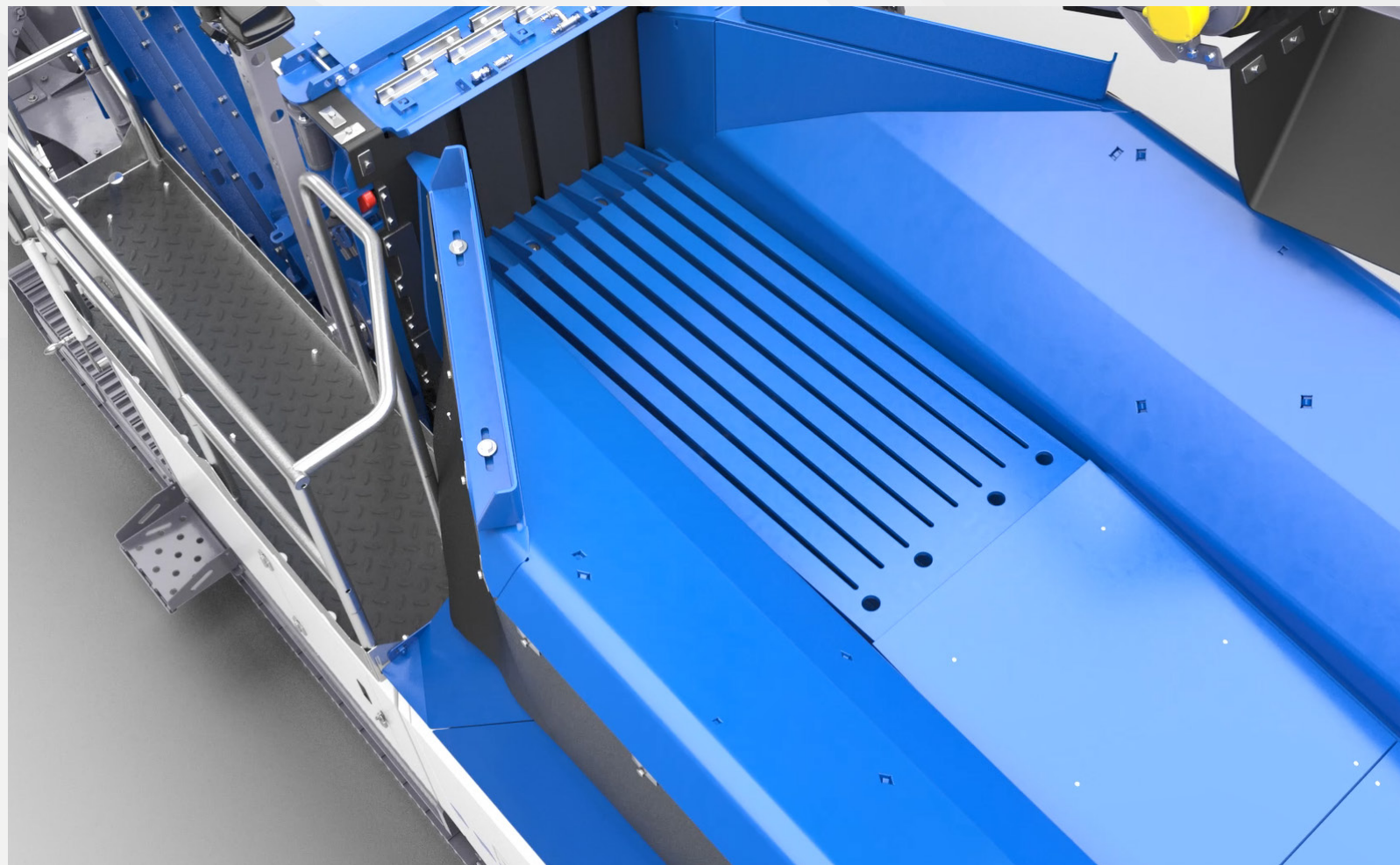
6 Post screening unit and magnetic separator

> Handling and sustainability



## 1 Feeding unit and prescreen

- > Hopper-vibrating feeder with integrated prescreening, powerful electric vibrating chute motors ensure continuously high conveying capacity
- > Increased screening surface size through optimised slotted grate and hexagonal punched plates guarantee a higher screening capacity and less cleaning time
- > Side discharge conveyor<sup>+</sup> right, hydraulically foldable, remains on the machine for transport
- > Bypass flap for rapid change-over from bypass flap to prescreen conveyor



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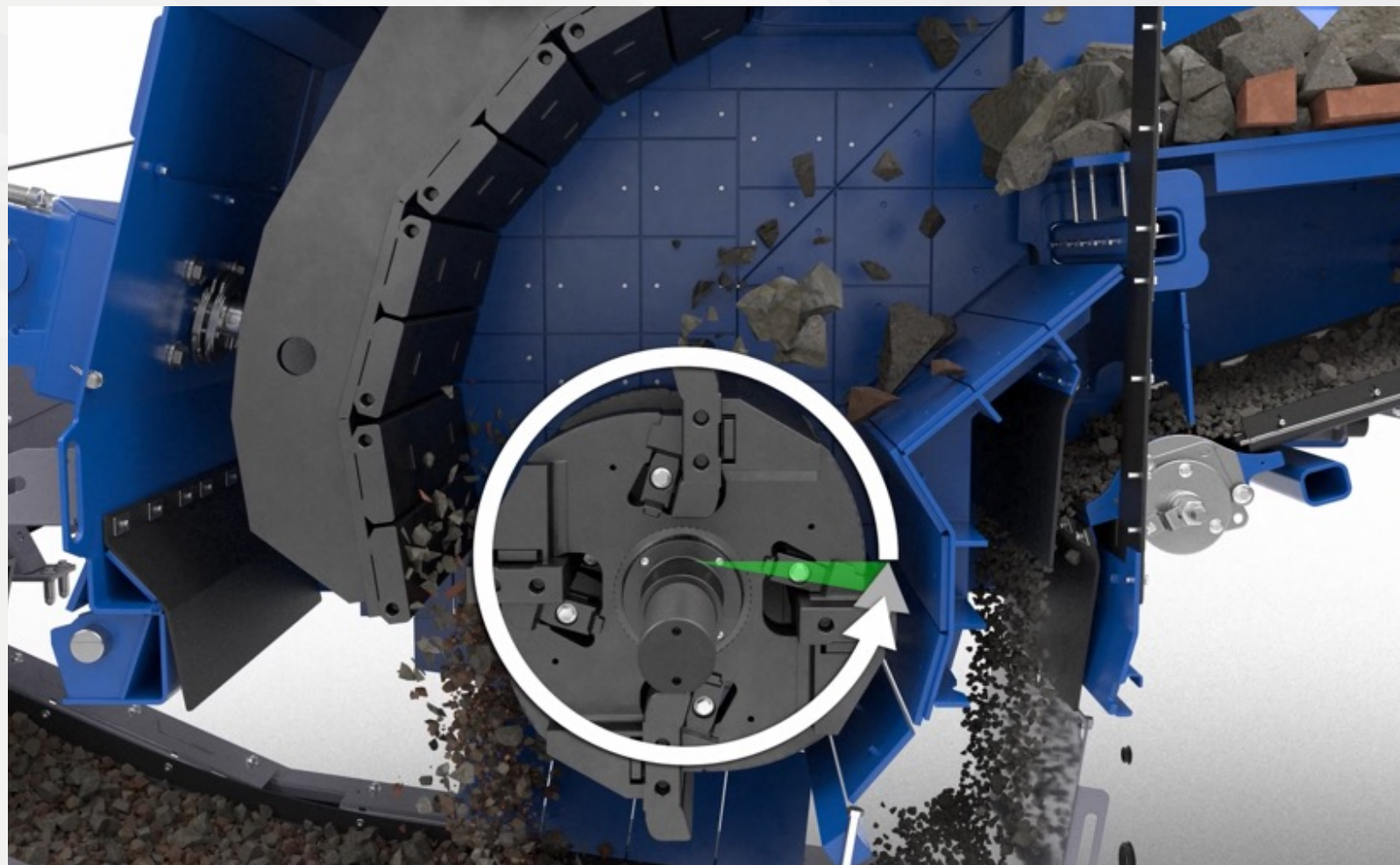
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## 2 Continuous Feed System (CFS)

- > CFS continuous feed system through intelligent feed control:
  - > Measurement of crusher load and engine load
  - > The vibrating feeder is controlled based on the load state
  - > When the crushing chamber is free again after overloading, material transport proceeds without delay
- > Fewer production interruptions - up to 10% more daily output
- > Less burden is placed on the downstream components, wear is reduced and the share of oversize grain is minimised



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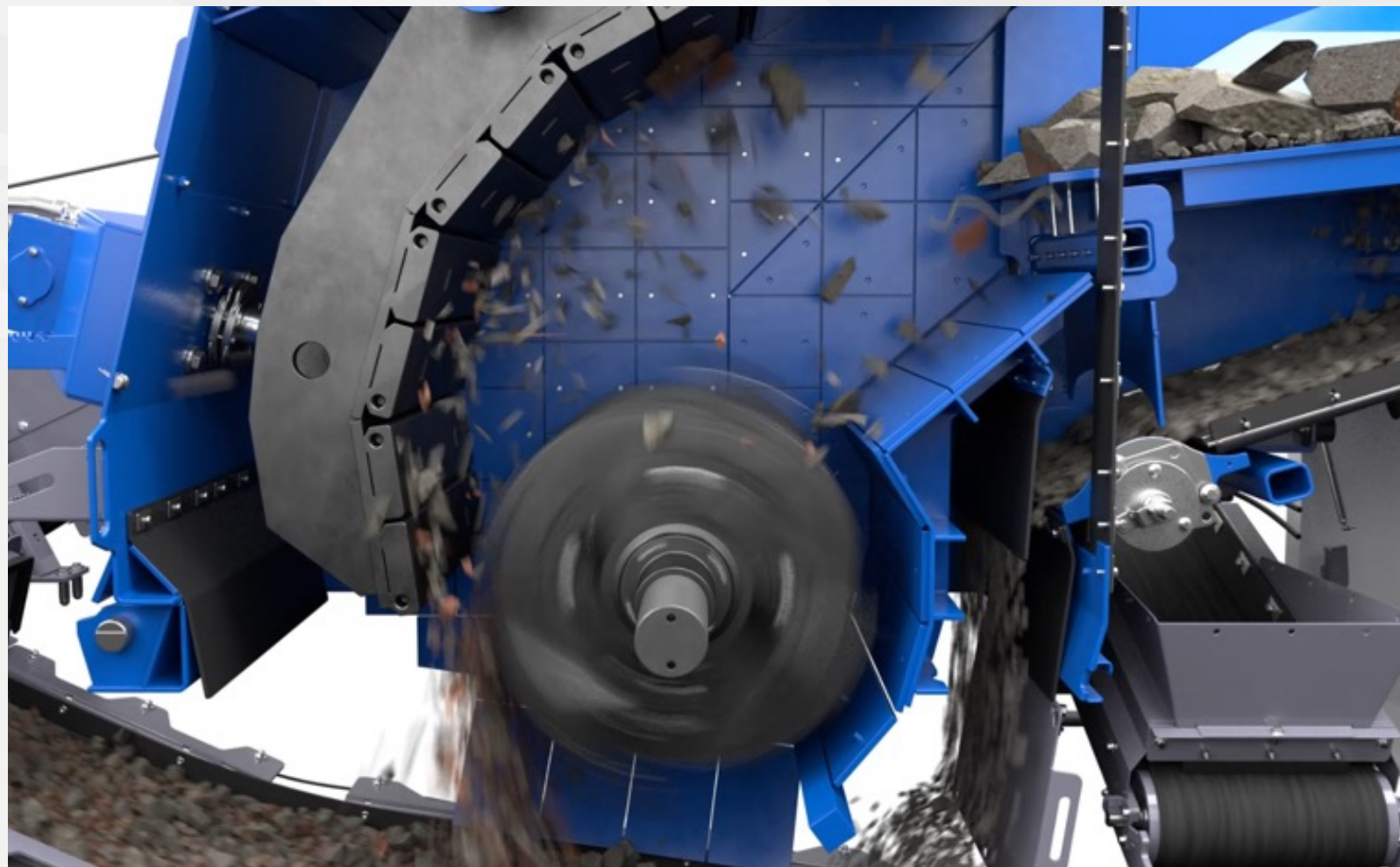


### 3 Crusher unit

- > Powerful crusher unit, 4-ledged rotor with large impact range
- > C-shape rotor ledges deliver high final product quality and a very good impact effect over long periods, simple and safe replacement from above
- > Optimised inlet geometry with very good feed behaviour ensures high throughput, larger passage under the crusher for a perfect material flow
- > Less material bridging in the inlet area thanks to raisable crusher inlet box cover<sup>+</sup>

#### Fully hydraulic gap adjustment and overload system

- > Automatic zero-point determination for precise gap setting via operating point
- > Zero-point determination compensates for wear during crusher start, a homogeneous crushing product is retained
- > Effective overload function opens impact toggle in the event of uncrushable components; impact toggle then automatically returns to the preset gap setting
- > In the event that uncrushable components are too large, a pressure plate is provided as a last resort to protect the crusher



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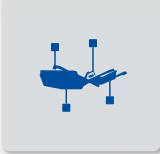
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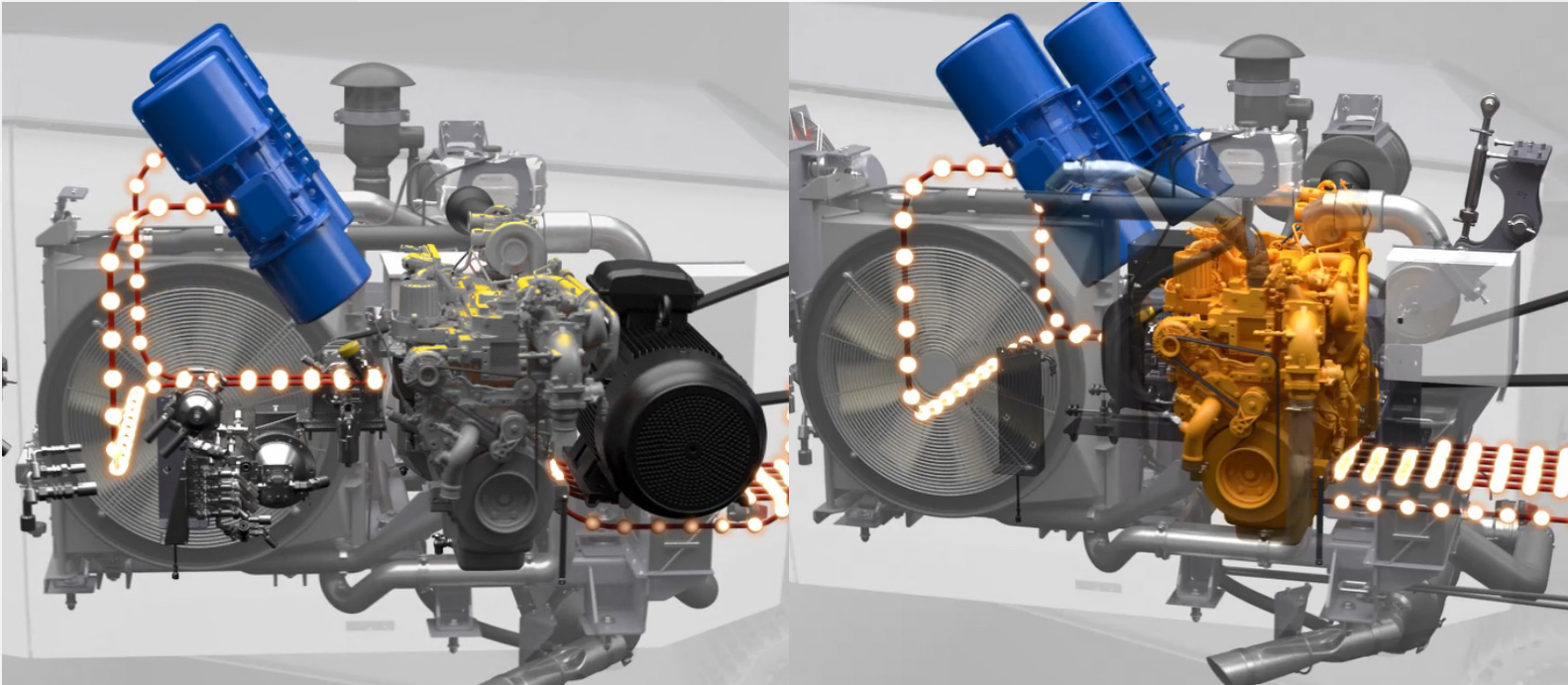
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4 Drive

Two drive concepts available:

- > **E-DRIVE** diesel-electric drive: all drives, with the exception of the transmission system and various auxiliary functions have an electrical design; local emission-free operation by means of an external power supply, for increased sustainability
- > **D-DRIVE** diesel-direct drive: efficient and powerful crusher direct drive with low fuel consumption, all auxiliary drives are driven electrically
- > Power-dependent fan for lower noise emissions and reduced consumption
- > Ease of physical and visual access to all components relevant to maintenance



KLEEMANN SUSTAINABILITY describes innovative technologies and solutions which are consistent with the sustainability objectives of the WIRTGEN GROUP.

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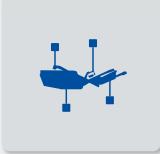
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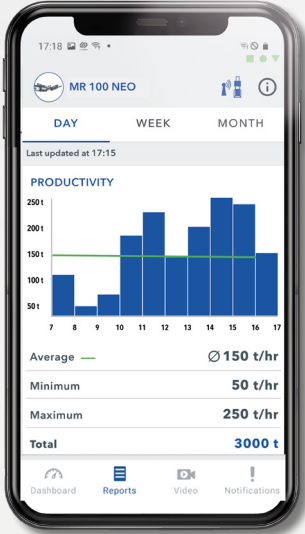
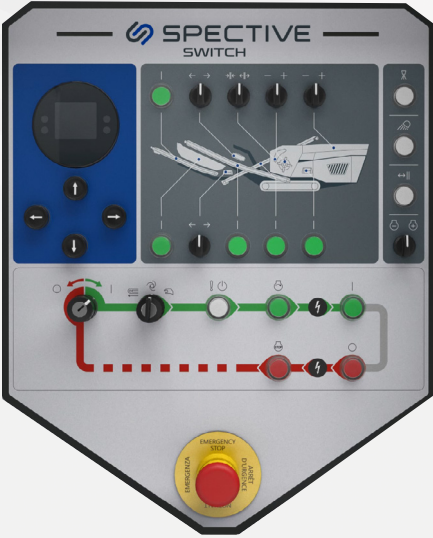
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## 5 Digital solutions

- > **SPECTIVE SWITCH:** simple adjustment of machine parameters
- > **SPECTIVE CONNECT<sup>+</sup>:** all important information can be directly accessed on a smartphone; higher productivity as a result of fewer interruptions to the production process
- > **Radio remote control:** for moving and setting up the machine, simple adaptation of operating parameters such as crusher gap setting and vibrating chute speed, can be used conveniently in the loading device
- > **John Deere Operations Center™:** platform for digital solutions to optimise processes, machines and services – and to simplify maintenance planning
- > **Quick Track<sup>+</sup>:** for fast and simple movement of the machine while it is operational – allows work to be completed faster since the system does not need to be shut down when it is moved; conveniently operated via radio remote control
- > **Belt scale<sup>+</sup>:** Determination of the production data for crusher discharge conveyor and fine grain conveyor (post screening unit), WPT Crushing for worldwide live recording of performance data and construction site progress in the John Deere Operations Center™



 SPECTIVE

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CONNECT

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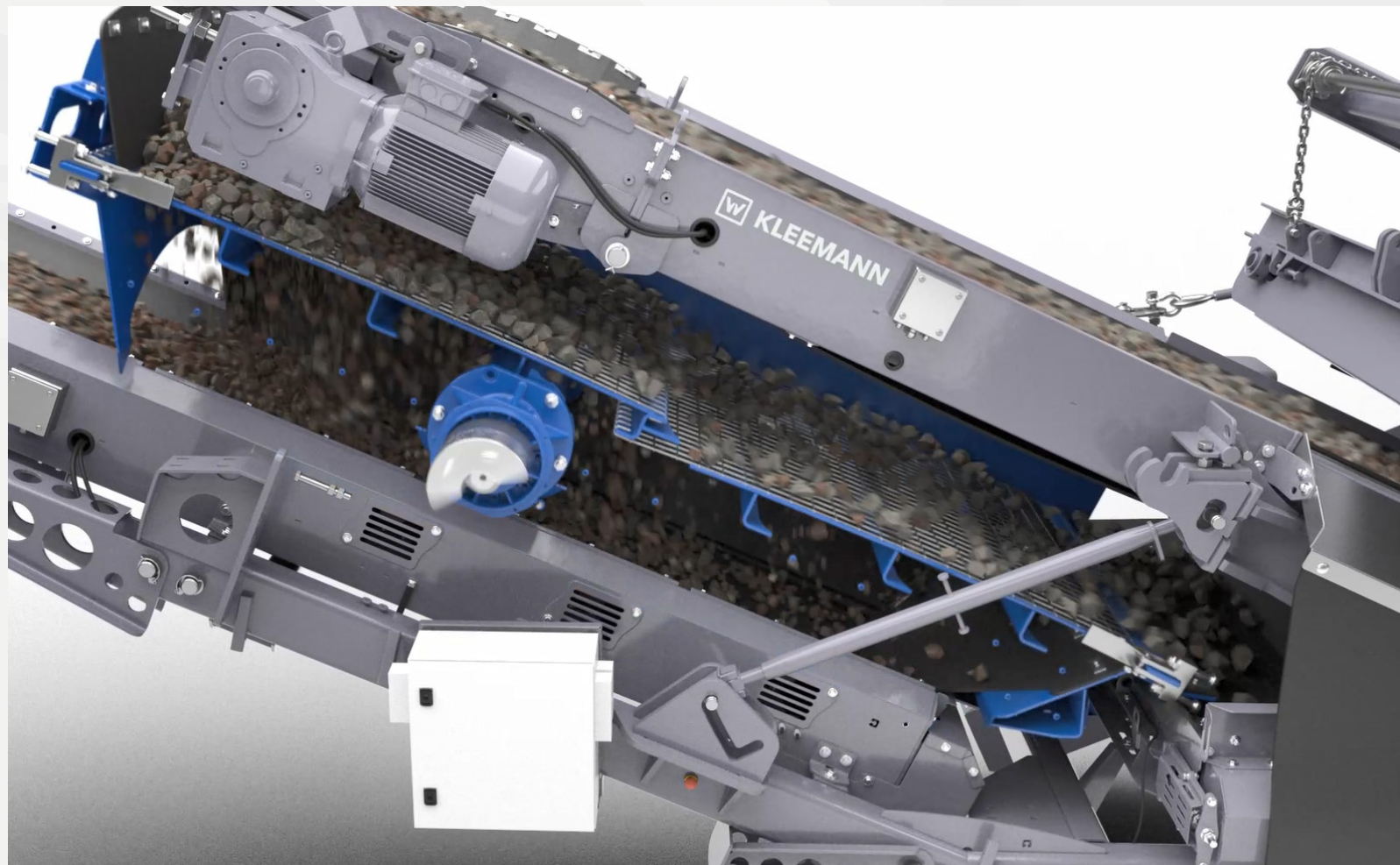
## 6 Post screening unit and magnetic separator

### Post screening unit

- > Effective single-deck post screening unit<sup>+</sup> with 4 m<sup>2</sup> screening surface, for the production of a classified final grain size
- > Easy to retrofit thanks to integrated return conveyor ("plug & play") on the post screening unit
- > Wide return conveyor, 180° swivel, makes discharge onto a stockpile possible
- > Wind sifter<sup>+</sup> for effective cleaning of the oversize grain, improved final product quality and less sorting work

### Magnetic separator

- > Efficient permanent magnet<sup>+</sup> for increased final product quality and a high plant performance
- > Can be flexibly attached on chains and individually adjusted in transverse and longitudinal inclination
- > Can be hydraulically raised and lowered for quick response to material congestion



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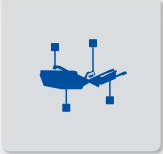
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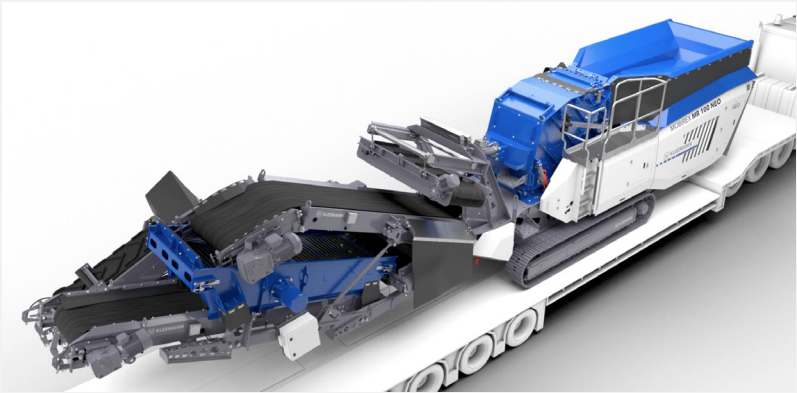


> **Safety & ergonomics**

- > Fast and convenient service possible due to ease of physical and visual access to all components – in spite of its compactness
- > Simple and safe rotor ledge replacement and breaking up of material bridging through “Lock & Turn Quick Access” via SPECTIVE operating point, fast tool-free opening and closing of the crusher
- > LED lighting included in basic plant; Premium lighting<sup>+</sup> for extended illumination of work areas
- > Simple refuelling from the ground through refuelling aid<sup>+</sup>
- > Convenient cleaning and replacement of fan thanks to swivel-out function
- > Coarse mesh cooler guarantees long cleaning intervals
- > Rear collision guard<sup>+</sup> for protecting the power pack chamber

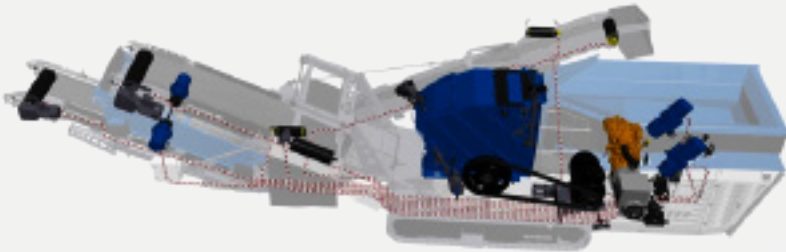
> **Transport**

- > Outstanding flexibility facilitates changing locations and quick set-up times
- > Compact design and low weight enable adaptable use in tight construction sites (e.g. in city centres)
- > Easy transport thanks to hydraulic folding functions (e.g. side discharge conveyor, crusher discharge conveyor)



> **Environment**

- > Local CO<sub>2</sub> emission-free operation through external power supply with E-DRIVE drive concept (eligible for funding, depending on the country) for increased sustainability
- > Dust reduction to protect the operator and the environment through spraying systems at all potential dust sources, can be switched on and off individually
- > Noise reduction and lower fuel consumption thanks to load-dependent fan



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> **Handling and sustainability**

TECHNICAL INFORMATION		MR 100 NEO   MR 100 NEOe
Feed capacity up to approx. (t/h)		250
Max. feed size (mm)		800 x 500 x 300
Hopper capacity (m³)		3.3
Drive concept		D-DRIVE (diesel-direct) E-DRIVE (diesel-electric)
Diesel engine drive power (kW)		240
Transport weight (kg)		29,000 - 38,000



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