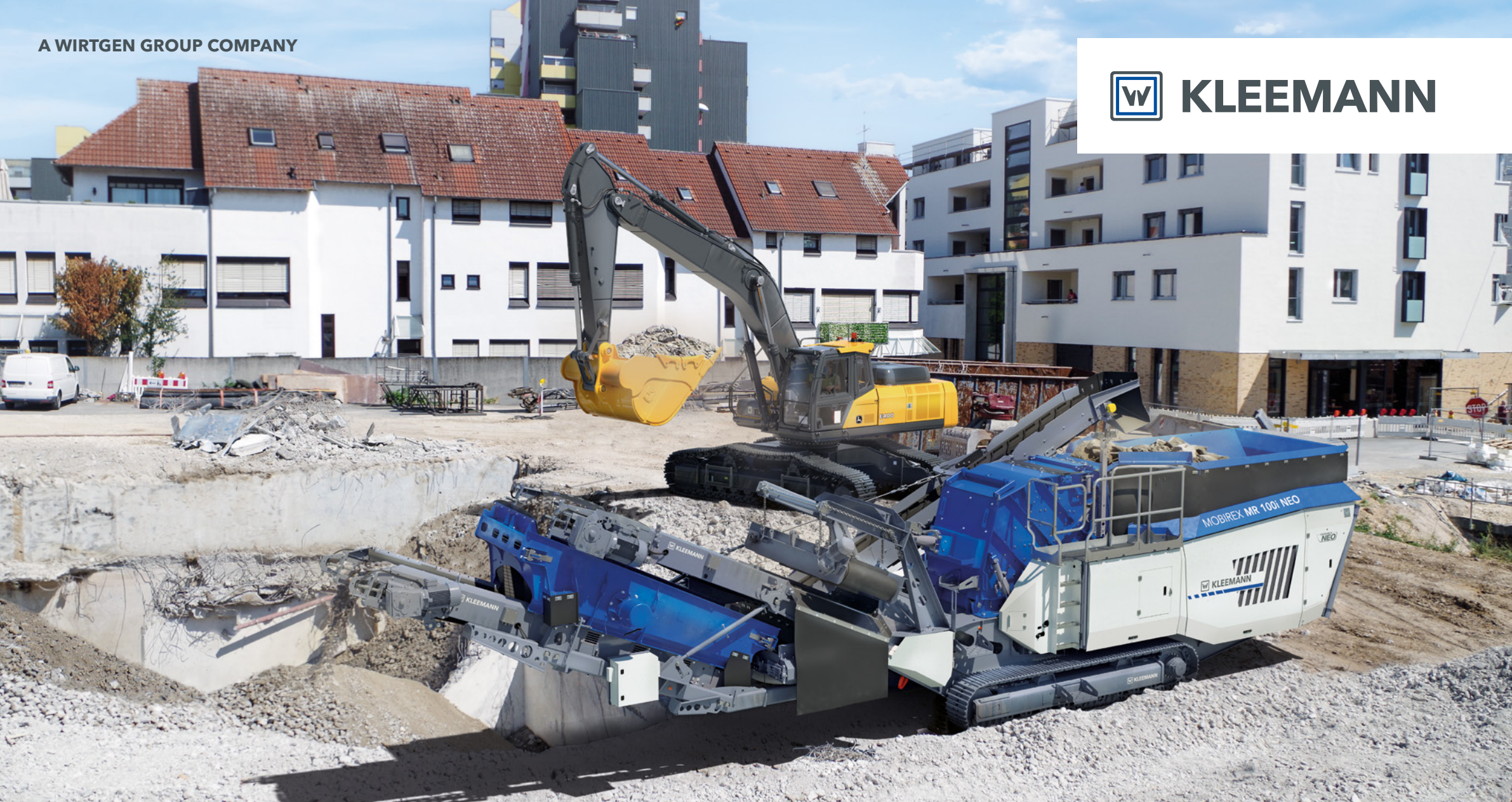


A WIRTGEN GROUP COMPANY



**KLEEMANN**



# MOBIREX NEO | NEOe



MOBILE IMPACT CRUSHER MOBIREX MR 100i NEO | MR 100i NEOe

> FROM A TO B WITH UNMATCHED EFFICIENCY.



# MOBIREX MR 100i NEO | MR 100i 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 100i 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



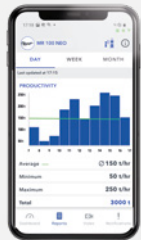
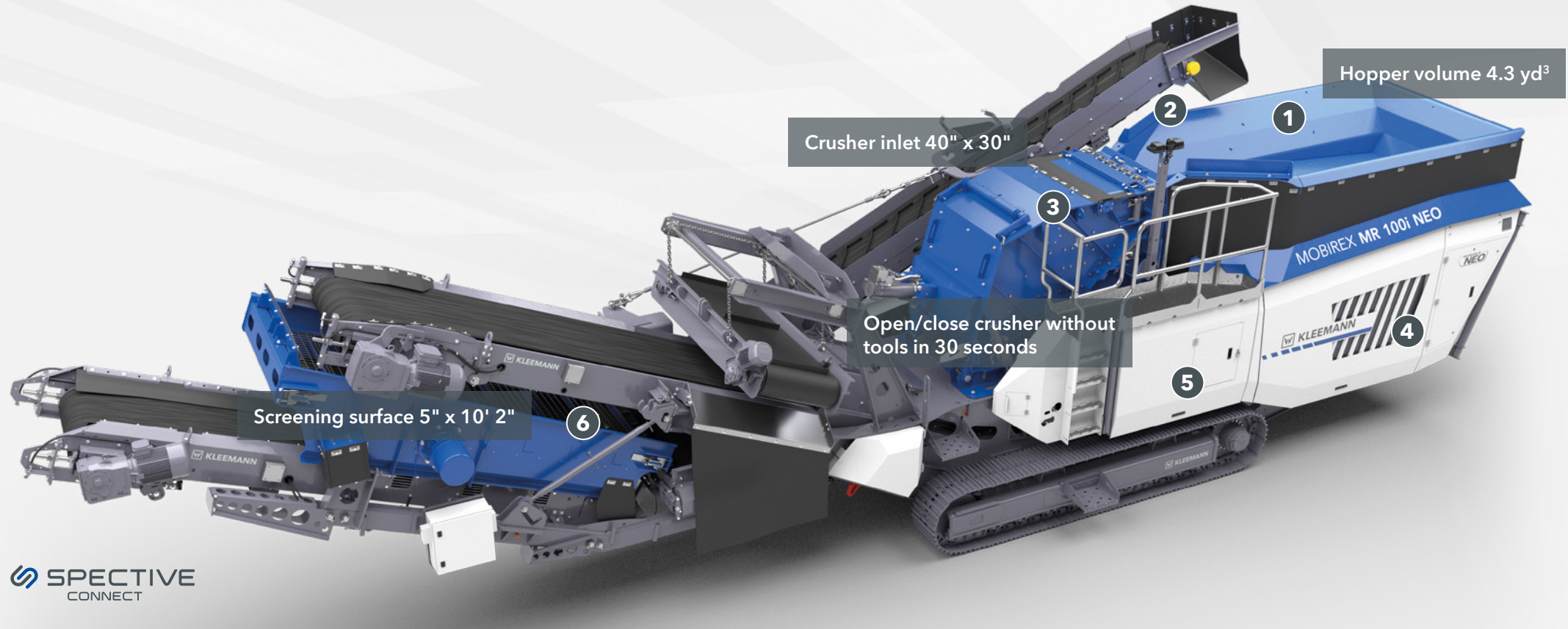
Operability in the foreground



An eye on sustainability



# MOBIREX MR 100i NEO | MR 100i NEOe



SPECTIVE  
CONNECT

1 Feeding unit and prescreen

2 Continuous Feed System CFS

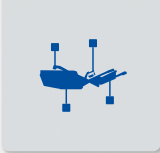
3 Crusher unit

4 Drive

5 SPECTIVE operating concept

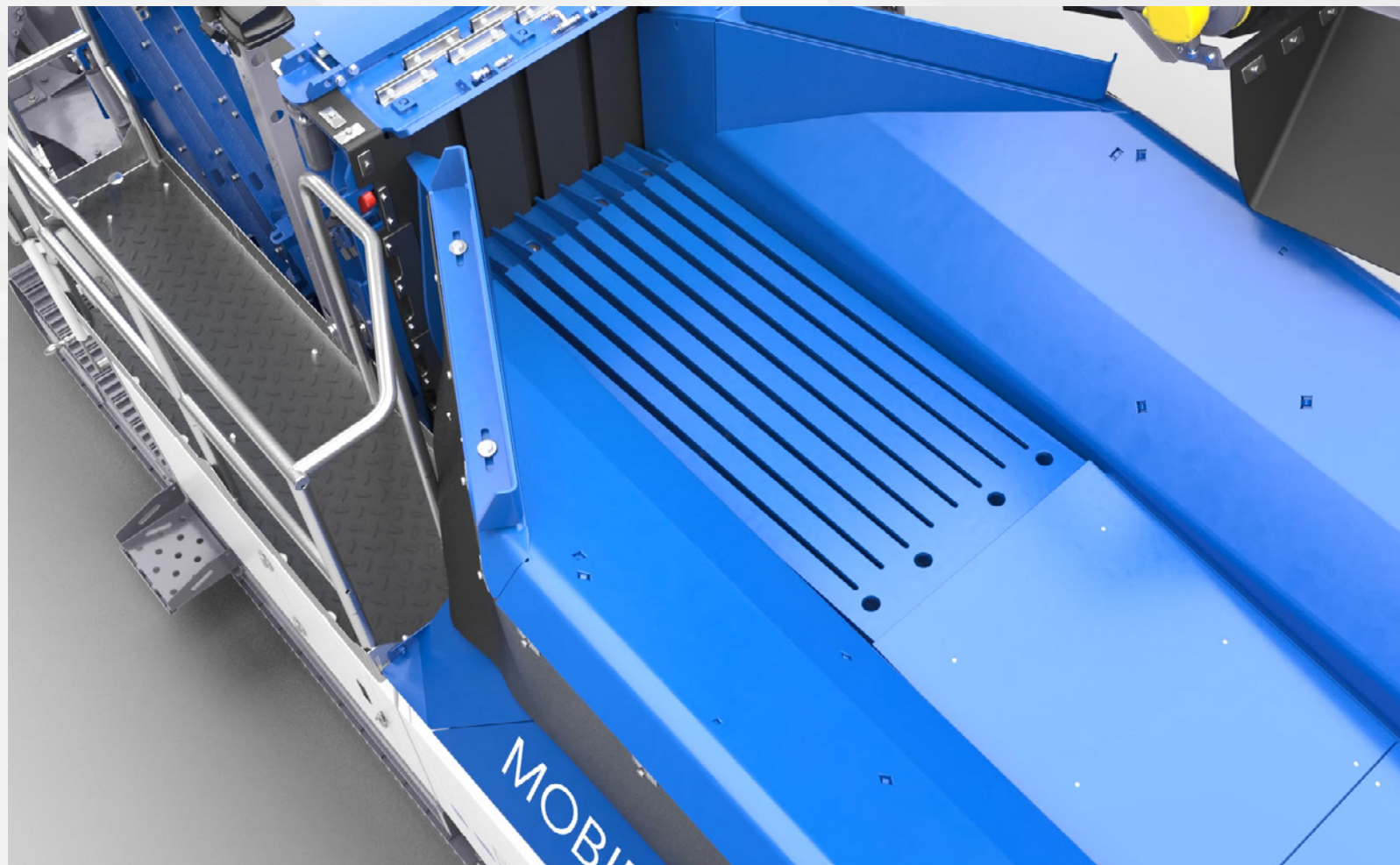
6 Post screening unit and magnetic separator

> 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 optimized slotted grate and hexagonal punched plates guarantee a higher screening capacity and less cleaning time
- > Side discharge conveyor right, hydraulically foldable, remains on the machine for transport



1 Feeding unit and prescreen

2 Continuous Feed System CFS

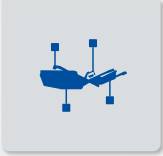
3 Crusher unit

4 Drive

5 SPECTIVE operating concept

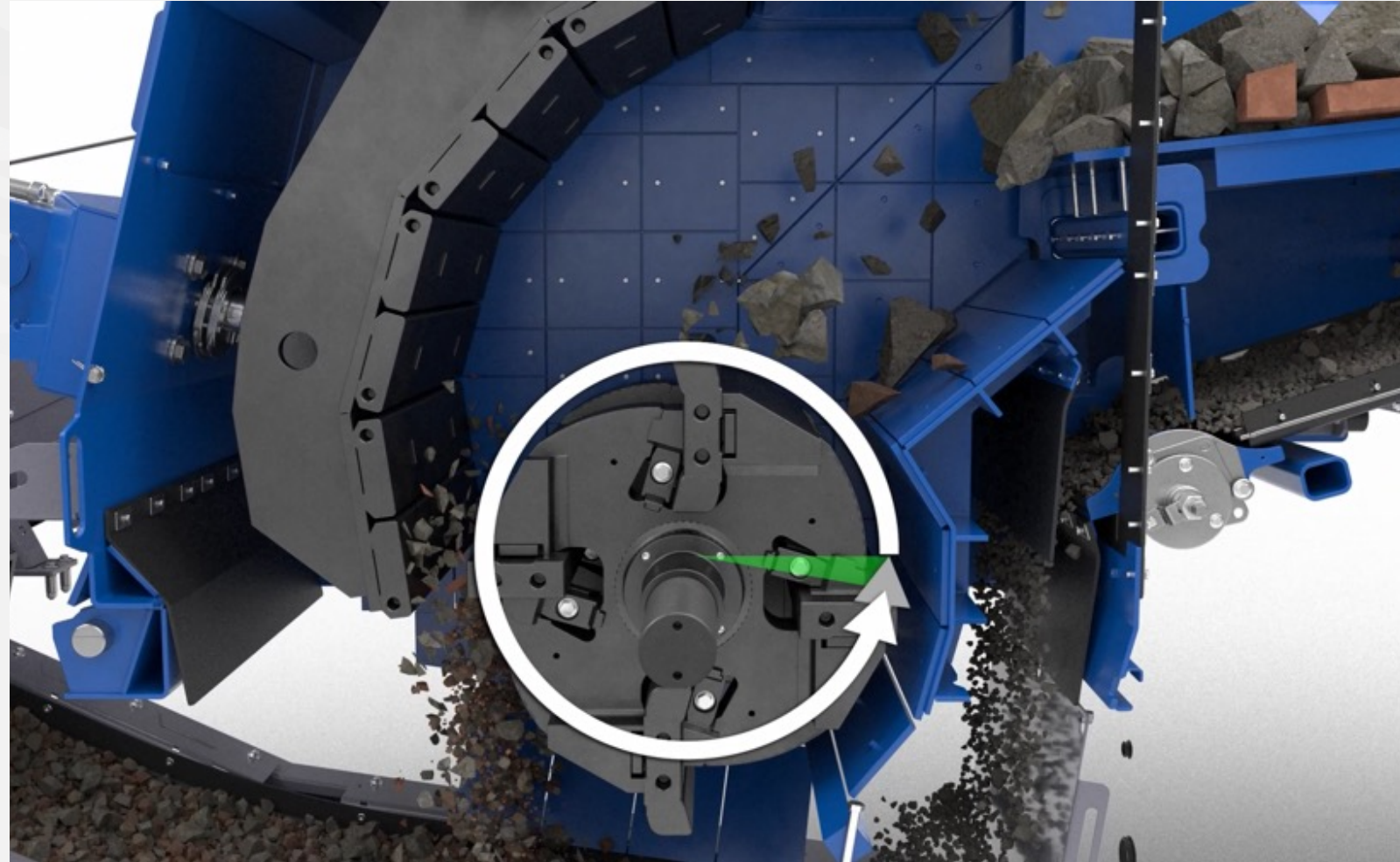
6 Post screening unit and magnetic separator

> Handling and sustainability



## 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 minimized



1 Feeding unit and prescreen

2 Continuous Feed System CFS

3 Crusher unit

4 Drive

5 SPECTIVE operating concept

6 Post screening unit and magnetic separator

> Handling and sustainability

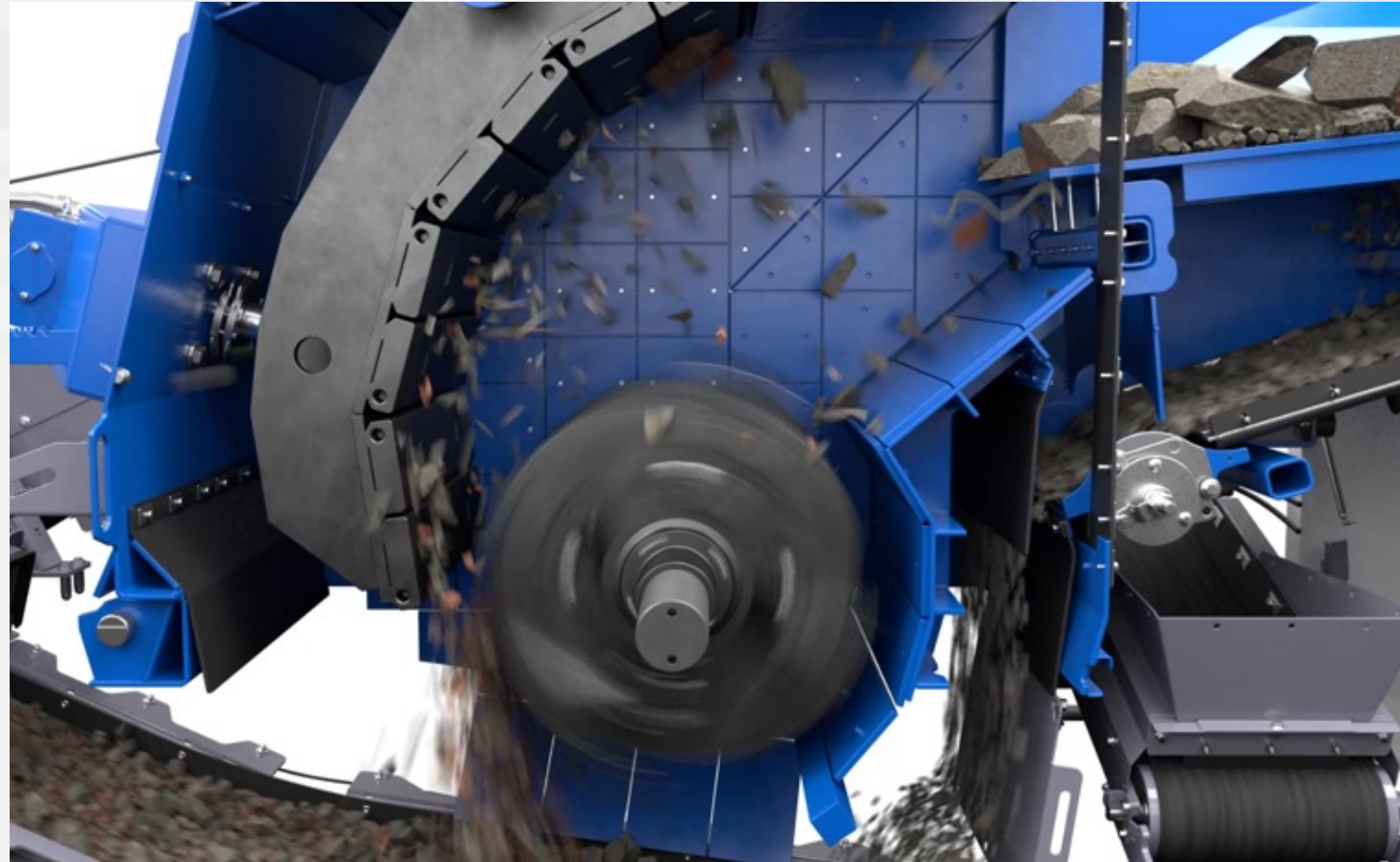


### 3 Crusher unit

- > 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
- > Optimized 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



1 Feeding unit and prescreen

2 Continuous Feed System CFS

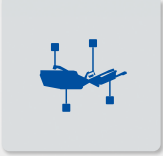
3 Crusher unit

4 Drive

5 SPECTIVE operating concept

6 Post screening unit and magnetic separator

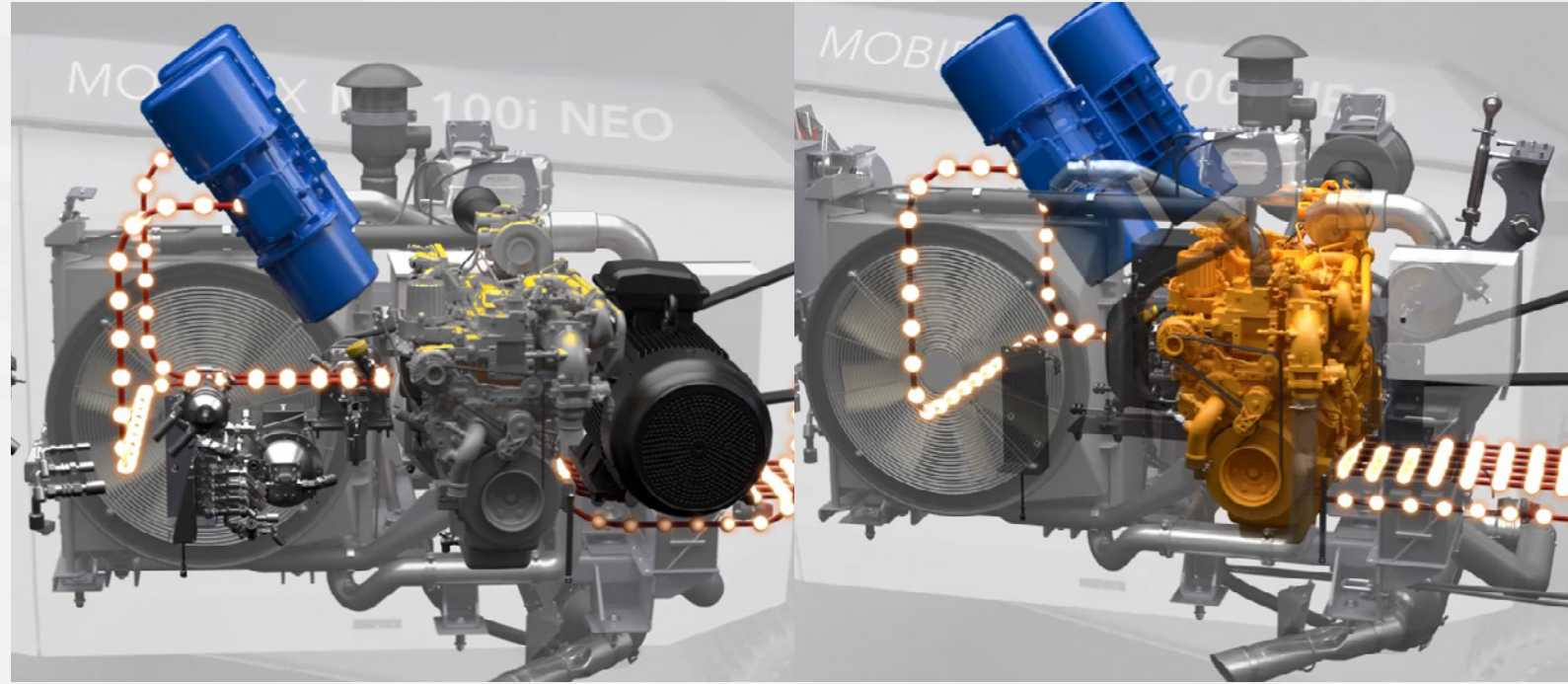
> Handling and sustainability



## 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.

1 Feeding unit and prescreen

2 Continuous Feed System CFS

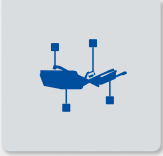
3 Crusher unit

4 Drive

5 SPECTIVE operating concept

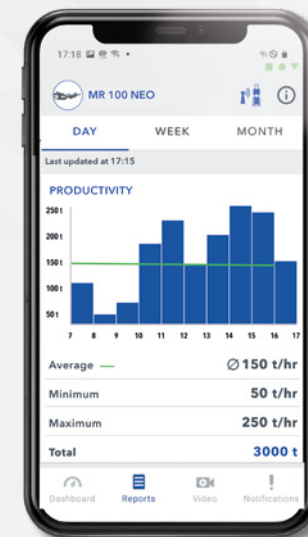
6 Post screening unit and magnetic separator

> Handling and sustainability



## 5 SPECTIVE operating concept

- > **SPECTIVE SWITCH:** simple adjustment of machine parameters
- > **SPECTIVE CONNECT:** 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
- > **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 fine grain conveyor



SPECTIVE

SPECTIVE  
CONNECT

1 Feeding unit and prescreen

2 Continuous Feed System CFS

3 Crusher unit

4 Drive

5 SPECTIVE operating concept

6 Post screening unit and magnetic separator

> Handling and sustainability





## 6 Post screening unit and magnetic separator

### Post screening unit

- > Effective single-deck post screening unit with 5' x 10' 2" 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 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



1 Feeding unit and prescreen

2 Continuous Feed System CFS

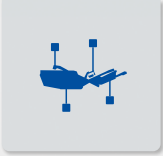
3 Crusher unit

4 Drive

5 SPECTIVE operating concept

6 Post screening unit and magnetic separator

> Handling and sustainability



## > 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

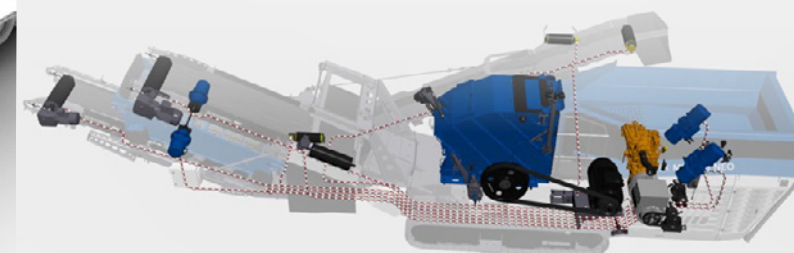
## > Transport

- > 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 centers)
- > 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



1 Feeding unit and prescreen

2 Continuous Feed System CFS

3 Crusher unit

4 Drive

5 SPECTIVE operating concept

6 Post screening unit and magnetic separator

> Handling and sustainability

TECHNICAL INFORMATION

MR 100i NEO | MR 100i NEOe

Feed capacity up to approx. (US t/h)	276
Max. feed size	20" x 32" x 12"
Hopper capacity (yd <sup>3</sup> )	4.3
Drive concept	D-DRIVE (diesel-direct) E-DRIVE (diesel-electric)
Diesel engine drive power (hp)	268
Transport weight (lbs)	64,050



**WIRTGEN AMERICA**

6030 Dana Way  
Antioch, TN 37013  
USA

T: +1 615 501 0600

M: [info.america@wirtgen-group.com](mailto:info.america@wirtgen-group.com)

 [www.wirtgen-group.com/america](http://www.wirtgen-group.com/america)