



Mobile stackers

MOBIBELT



A LONG HERITAGE OF EXPERTISE

Efficient crushing and screening plants.

For the past 100 years, KLEEMANN GmbH has been developing and manufacturing machines and plants for the natural stone and recycling industries.

High levels of performance and innovative details, simple handling and maximum safety for the operator - this is what KLEEMANN crushing and screening plants stand for.

Efficient on the construction site

The MOBIBELT mobile stackers are used to ensure efficient logistics processes on building sites. They flexibly extend the operating range of crushing and screening machines - for larger stockpiles, improved construction logistics and easy operation.

> Applications in natural stone > Applications in recycling

THE KLEEMANN PRODUCT RANGE

MOBICAT

Mobile jaw crushers

MOBIREX

Mobile impact crushers

MOBICONE

Mobile cone crushers

MOBISCREEN

Mobile screening plants

MOBIBELT

Mobile stackers



HIGHLIGHTS

Perfectly equipped.

MOBIBELT MBT 20(i) / MOBIBELT MBT 24(i)

01 Feed hopper

- > Standard hopper made of robust KRS, optionally extendable via a hopper extension with impact bar

02 Tracked, mobile running gear

- > Tracked, mobile running gear for simple relocation even in difficult terrain

03 Drive

- > H-DRIVE diesel-hydraulic drive concept
- > Dual Power (option) for either electro-hydraulic or diesel-hydraulic drive

04 Operating concept

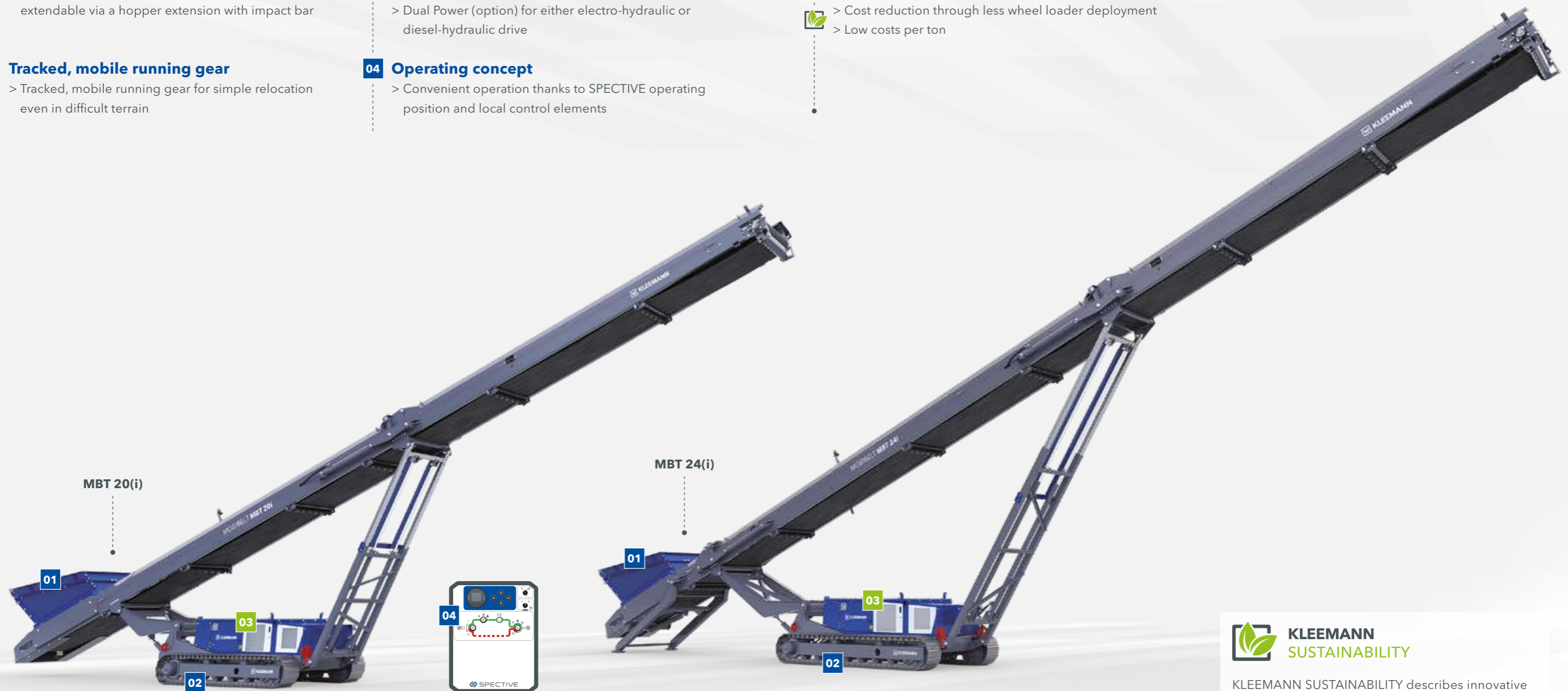
- > Convenient operation thanks to SPECTIVE operating position and local control elements

> Safety and ergonomics

- > Short set-up times for rapid deployment
- > Hydraulically adjustable feeding and discharge height
- > Hydraulically foldable discharge side, hydraulically foldable feeding side with the MBT 24(i) (option)
- > Increased safety on the work site thanks to reduced wheel loader traffic

> Cost-effectiveness

- > High feed capacity for a high throughput
- > Cost reduction through less wheel loader deployment
- > Low costs per ton



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

FLEXIBLE AND ROBUST

Quickly ready for operation, impressive in action.

The MOBIBELT mobile stackers excel with short set-up times, high feed capacities and a very robust design.

The generously dimensioned 1.7 m³ feed hopper is made of resistant KRS, which enables problem-free feeding of material with an edge length of up to 200 mm. This hopper can be extended up to 2.5 m³ and is provided with an additional impact bar that prevents the direct impact of the feed material on the conveyor belt and therefore reduces wear.

Thanks to its adjustable feed height, the stackers can be used flexibly downstream of screening and crushing machines with different discharge heights.

An optimum feed height setting reduces the impact effect during material transfer from upstream crushing or screening machines and therefore reduces wear. The stackers enable high discharge heights, which results in impressively high stockpiles - considerably reducing the deployment of wheel loaders on the work site.



Robust "lightweights"

Multiple bends and targeted reinforcement on the inside of the belt frame prevent distortion under high load, resulting in impressive conveying capacities combined with a comparatively light weight and narrow belt frame structure. The deflection roller with a rod drum design prevents the build-up of moist or sticky material on the roller and therefore related damage to the belt.

The mobile stackers are relatively light, easy to transport and quickly ready for deployment - for maximum flexibility on the work site.

1,000 mm Belt width | **8,400 mm** Discharge height MBT 20(i) | **10,100 mm** Discharge height MBT 24(i)

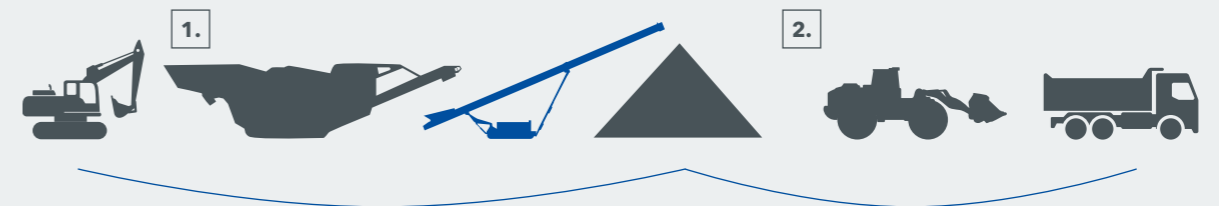
KLEEMANN SUSTAINABILITY

Focus on cost-effectiveness and sustainability

The cost-effectiveness and sustainable use of mobile stackers are evident: less material movement, lower acquisition and operating costs, lower fuel consumption, reduced maintenance requirements compared with a wheel loader - and a lot more.



Application without stacker



Application with stacker



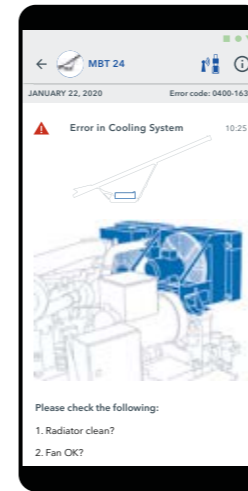
SPECTIVE INTUITIVE OPERATING CONCEPT

For exceptionally comfortable operation.

The operation of mobile stackers may be less complex than that of crushing plants, but it still needs to be simple and convenient.

The MOBIBELT MBT 20(i) and MBT 24(i) mobile stackers feature the SPECTIVE operating concept that enables intuitive operation of the machines.

The operator receives ideal support with a central operating position, local operation and the option of troubleshooting help via SPECTIVE CONNECT.



SPECTIVE CONNECT offline troubleshooting help

If a fault occurs on the stacker, a fault code appears on the display. With the SPECTIVE CONNECT offline troubleshooting support, users can take the information directly to the fault source - a quick glance on their smartphone is enough to detect the problem.

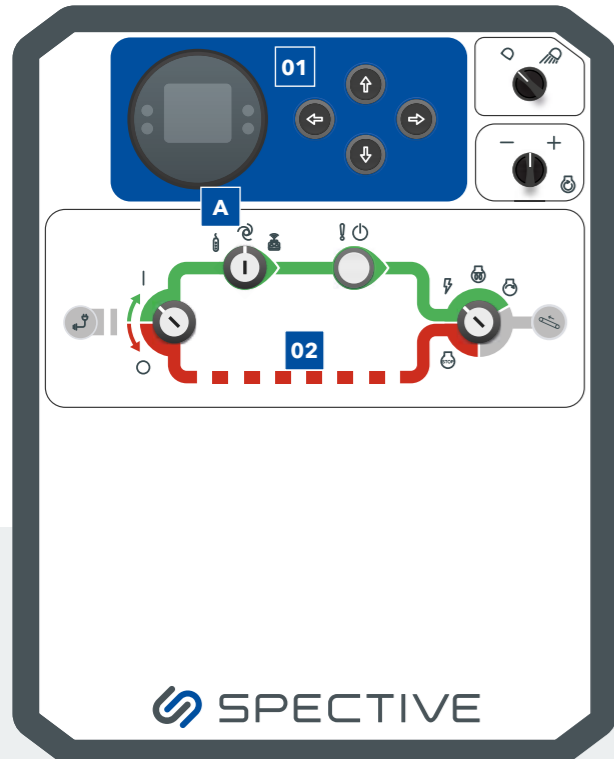
The offline troubleshooting support also ensures that Service staff - either internally or through WIRTGEN GROUP Service - can support operators remotely. This only requires the input of the fault code and the plant type.



SPECTIVE operating position

The start procedure offers step-by-step intuitive guidance of the operator with the help of colours and symbols. In addition, the lockable operating mode selector switch

protects against operating error - making it impossible to switch to another operating mode by accident.

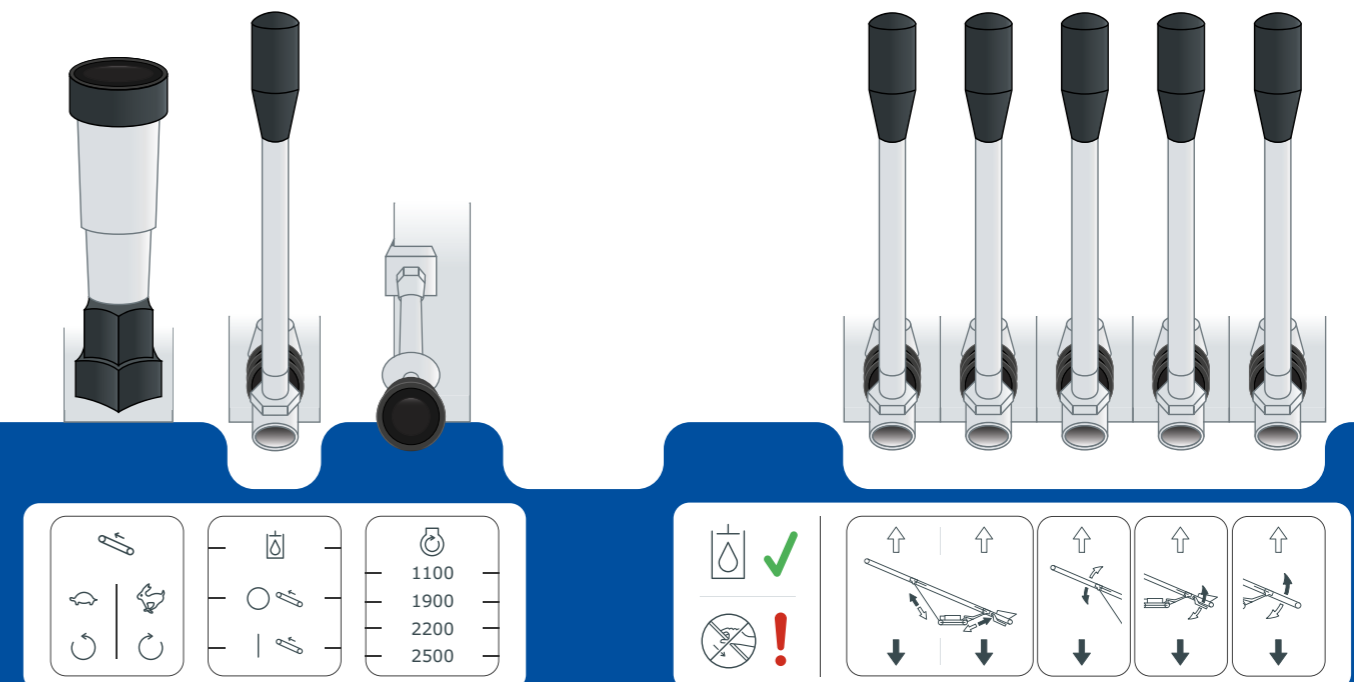


- 01** Display with operating buttons for showing basic information
- 02** Start procedure in a logical sequence incl. operating mode selector switch **A**

Local operation

Set-up functions and the operation of the conveyor belt can be comfortably controlled via local operation. For example, the speed of the belt can be regulated and all folding and lifting functions can be executed.

Thanks to the logical sequence of the control elements, comfortable operation is possible - for minimised set-up times.



OPTIMISED WORK SITE LOGISTICS

The best technology.

Reduced costs, increased safety

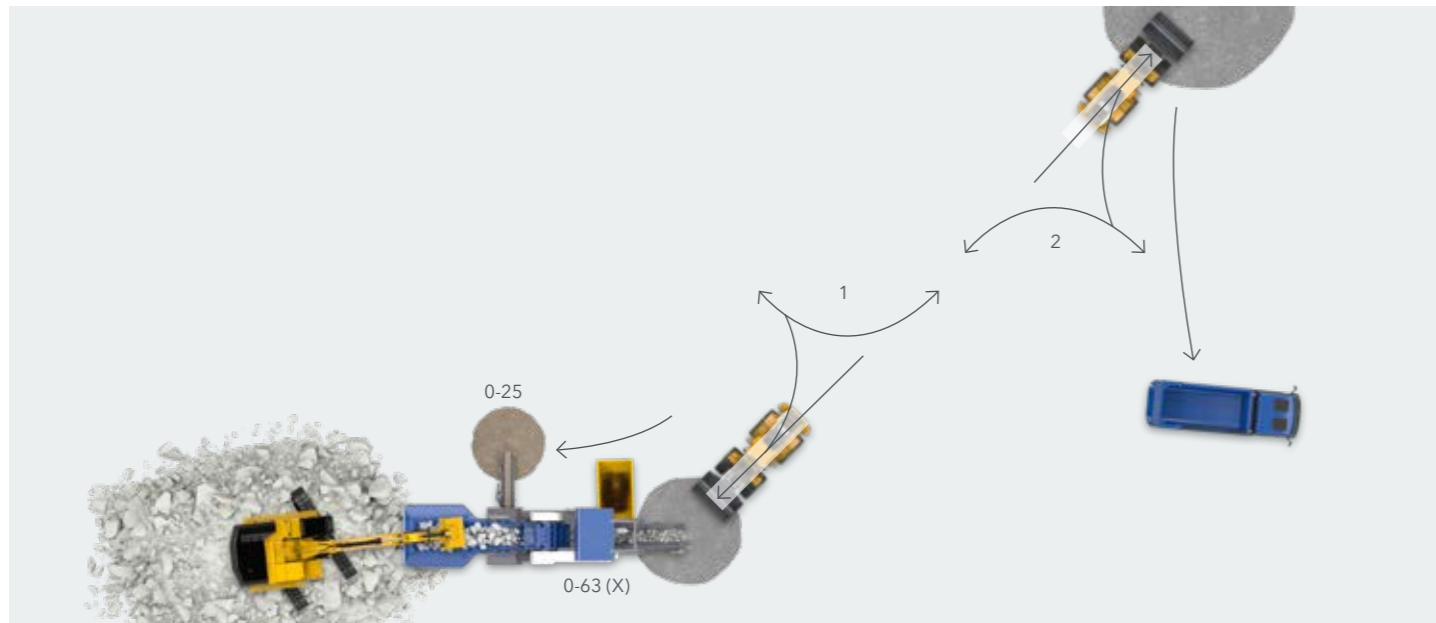
The use of stackers results in a significant reduction in material movement with the wheel loader. This lowers costs and increases safety on the work site. The less traffic there is on a construction site, the fewer the potential sources of danger.

Overcoming obstacles

The mobile stackers can be used flexibly to overcome large height differences and obstacles. Crushing can therefore take place on site and material transport to the next crushing or screening stage, or for tipping onto the stockpile, can be easily achieved via stackers.

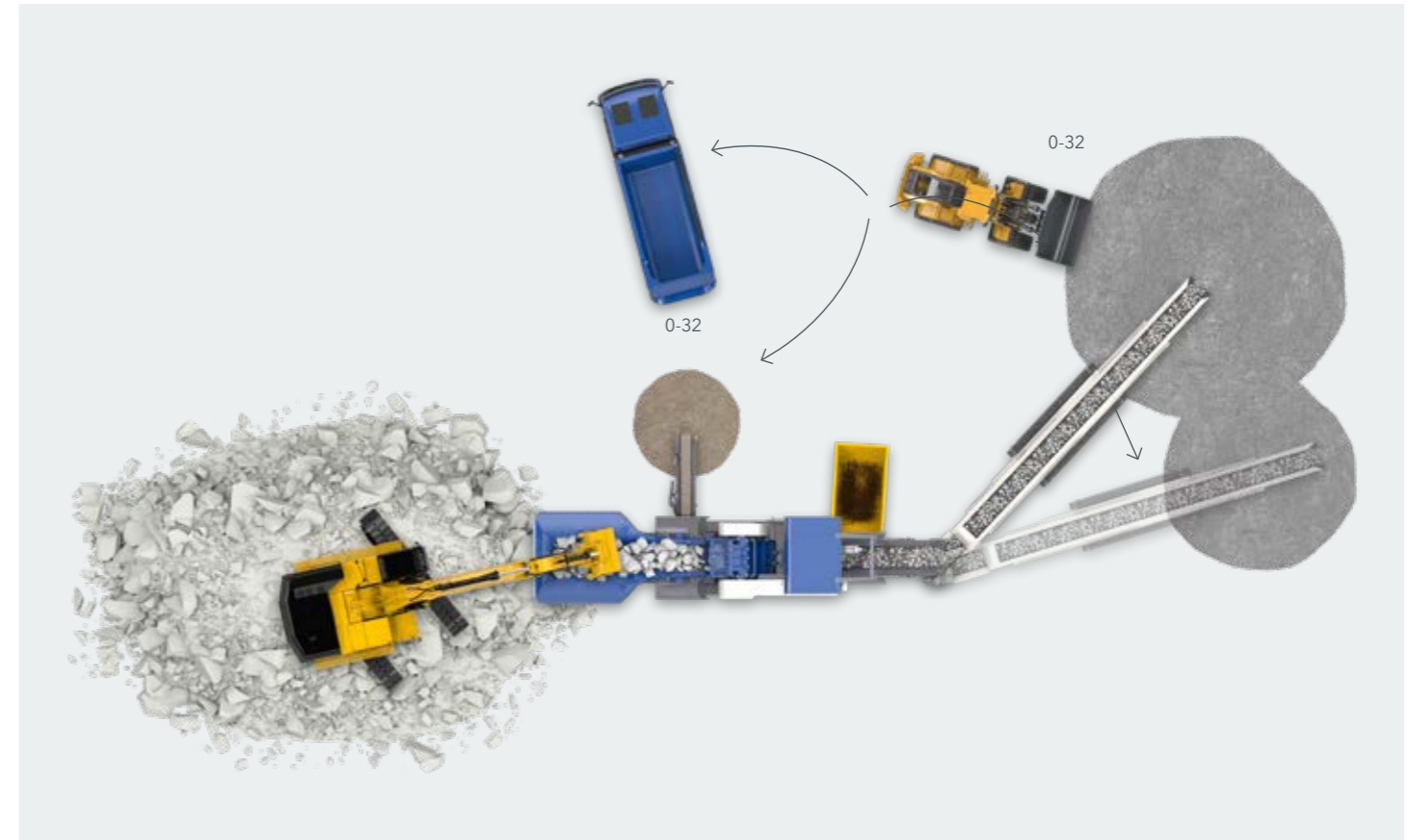
Applications with sensitive material

When processing sensitive material, such as pumice, experience has shown that the use of stackers is not only more cost-effective, it is also more material-friendly. To retain the high product quality, the pumice stone is usually conveyed directly via a stacker onto the final stockpile following the screening process. Tipping with a wheel loader would cause unnecessary damage to the material.



Work site logistics - without a stacker

- > Discharge height MC 110(i) EVO2 crusher discharge conveyor: 3,140 mm - max 3,040 mm stockpile height
- > At 170 t/h crushing capacity: The stockpile must be cleared approx. every 30 minutes.
- > Depending on the distance to the main stockpiles, the wheel loader operator only has a little time to load the lorry, which can lead to wait times. The high operating costs of the wheel loader need to be taken into account here. The frequent use of a wheel loader in this area of the work site limits the possibility of using the same vehicle for other tasks and may make the acquisition of an additional wheel loader including driver necessary.
- > If the wheel loader driver, in addition to his regular tasks, also has to load the crushing plant instead of the excavator shown in the illustration, this task can only be mastered to a limited extent: the crushing machine is frequently at a standstill and the machine's performance is therefore reduced.



Work site logistics - with a stacker

- > Discharge height MOBIBELT MBT 24(i): 10,100 mm - max. 9,000 mm stockpile height
- > At 170 t/h crushing capacity: Stockpile must be cleared after approx. 12 hours
- > The driver of the wheel loader has sufficient time to load the lorry. Inefficient wait times are avoided.
- > The wheel loader can be used in other areas of the work site during tipping onto the stockpile

Summary: The operating costs of a stacker are considerably lower than that of a wheel loader and the conveying capacity is usually higher - without it having to be constantly controlled by the operator. The use of a stacker therefore increases efficiency and, with every saved wheel loader operating hour, is easy on the budget.

YOUR WIRTGEN GROUP CUSTOMER SUPPORT

Service you can always rely on.

Place your trust in our reliable and fast support during the complete life cycle of your machine. Our wide service offer includes suitable solutions to meet all of your challenges.



Service

We keep our service promises - with fast and uncomplicated assistance both on the building site and in our professional workshops. Our Service team has received expert training. Thanks to special tools, repair, care and maintenance work is completed quickly. Upon request, we can support you with tailored service agreements.

> www.wirtgen-group.com/service



Spare parts

Original parts and accessories from WIRTGEN GROUP can ensure the high reliability and availability of your machines in the long term. Our experts will be glad to advise you on application-optimised wear part solutions. Our parts are available worldwide, at any time and are easy to order.

> parts.wirtgen-group.com



Training

Staff responsible for the WIRTGEN GROUP's product brands are specialists in their areas and have decades of application experience. Our customers also greatly benefit from these experts. In our WIRTGEN GROUP training courses, we gladly pass on our knowledge to operators and service personnel.

> www.wirtgen-group.com/training



Telematics solutions

Construction machines with leading technology and perfected telematics solutions work hand-in-hand in the WIRTGEN GROUP. Intelligent monitoring systems such as WITOS or JD Link* not only facilitate the maintenance planning of your machines but also increase productivity and economy.

> www.wirtgen-group.com/telematics

TECHNICAL DATA AT A GLANCE

MBT 20(i)/ MBT 24(i)



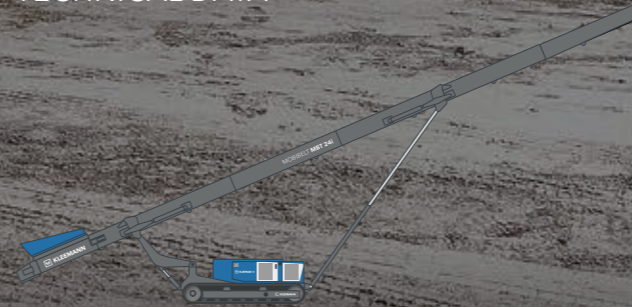
TECHNICAL DATA



MBT 20(i)

- > Feed capacity up to approx.: 450 t/h (600 t/h ¹⁾)
- > Discharge height: 8,400 mm
- > Belt length: 19,400 mm
- > Weight: 11,200 kg*

TECHNICAL DATA



MBT 24(i)

- > Feed capacity up to approx.: 450 t/h (600 t/h ¹⁾)
- > Discharge height: 10,100 mm
- > Belt length: 22,700 mm
- > Weight: 12,600 kg*

¹⁾ with twin drive (option) * Minimum weight without options, exact weight specifications upon request

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