

MOBICAT MC 120i PRO



Performance in the foreground



A guarantee for high production output: MOBICAT MC 120i PRO mobile jaw crusher excels with its extremely robust design and low-maintenance operation.

The plant has a generously dimensioned feeding unit, enabling large quantities of material to be easily fed in with an excavator or wheel loader. Thanks to its powerful crushing unit, the MC 120i PRO ensures the highest possible crushing capacity and high throughput combined with top reliability.

Operability at its easiest



As crushing plants become more and more demanding in terms of their function, we make operation of the machine simply easier.

With the **SPECTIVE** operating concept, the full potential of the machines can be used simply and intuitively.

SPECTIVE CONNECT is the logical extension, because it brings the crusher's human interface into the excavator to the operator. In addition to relevant data such as

speed, consumption values and fill levels, error messages are displayed. This way, work does not have to be interrupted for the operator to view the status. This is safe and efficient.

Additionally, important process and machine data can be summarized in a report and conveniently transmitted. This allows you to exploit the full potential and increase yield – through knowledge to an all-new level of performance.

Accessibility at a glance



The **MOBICAT MC 120i PRO** is designed and built for safe, convenient operation.

All machine components are very easy to access to guarantee trouble-free production, simple operation and fast service.

Useful options on the plant further increase operator comfort. The Premium lighting, for example, provides even better illumination of all important work positions.

Simple refuelling of the machine is possible from the ground – with the help of a refuelling pump.

> TECHNICAL HIGHLIGHTS



1 Feeding unit

- > Generously dimensioned basic hopper for simple and fast loading
- > Can be folded hydraulically; self-locking without any additional work - for fast and safe start-up
- > Hopper extension⁺ enables the hopper to be loaded from the side and rear for quick load cycles

2 Prescreening

- > Independent vibrating double-deck prescreen ensures effective screening of the fines while increasing output
- > Easily adjustable bypass flap for optional lateral discharge of the fine grain or diversion into the crusher bypass
- > Side discharge conveyor can be used on both sides, rigid or folded hydraulically

3 Continuous Feed System (CFS)

- > Innovative feed control ensures continuous crusher utilization
- > Vibrating feeder and prescreen automatically restrict or increase the conveying speed depending on the fill level of the crusher. This results in optimal crusher utilization.

4 Crusher unit

- > Convenient gap setting: at the press of a button over the entire setting range
- > Optimized crusher geometry with long crusher jaw: high throughput combined with top reliability
- > Power crusher drive: Powerful 268 hp electric drive for maximum crushing capacity
- > Crusher unblocking system⁺: for loosening packed material - enables powerful starting even if the crusher is full and at a standstill
- > Gentle material transfer: thanks to deflector plate or crusher discharge chute⁺
- > Rock hammer⁺: for removing material that is stuck, or for crushing lumps of stone

Overload system

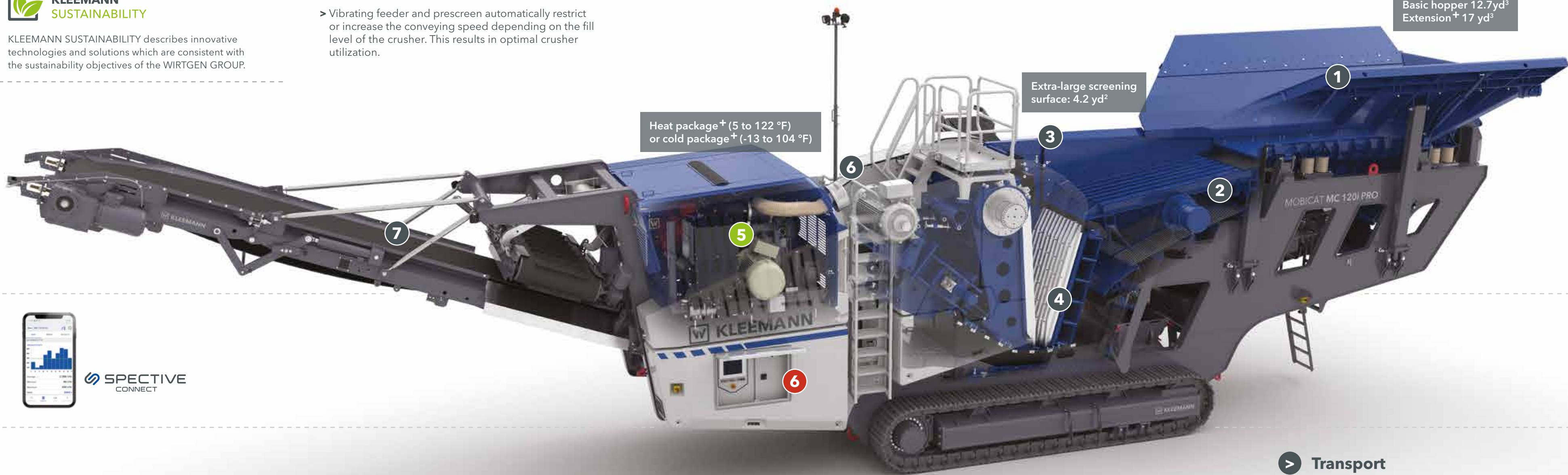
- LRS load reduction system prevents consequential damage during long operation under extremely high forces
- > The feed volume is adapted and the forces acting on the housing and rocker are reduced
 - > When the overload is reduced, the system adapts to the highest possible output

5 Drive

- > With the E-DRIVE diesel-electric drive concept, all drives are electric with the exception of the transmission and auxiliary functions
- > Local emission-free operation possible through an external power supply (transportable, depending on the country) for increased sustainability
- > Electrical connection⁺ for the supply of other downstream machines such as a screening plant or stacker
- > Raised air intake⁺ for longer filter service life



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



6 Operating concept

- > **Touch panel:** with menu-guided operation, visualization and support; status display of all components such as speed, temperature, etc., rapid fault localization and diagnostics
- > **SPECTIVE CONNECT⁺:** displays all important information directly on the smartphone
- > **Camera system⁺:** enables convenient monitoring of crusher and hopper, remote monitor in the excavator, additional connection to SPECTIVE CONNECT

- > **Telematics system:** efficient fleet and service management with information on the operating status of the machines independently of location and time - alternatively, with integration in SPECTIVE CONNECT
- > **Line coupling:** Process coupling for controlling the production output; safety coupling for reliable linking of the plants in the plant train
- > **Belt scale⁺:** at the crusher discharge conveyor for determining the production data

7 Crusher discharge conveyor and magnet⁺

Crusher discharge conveyor

- > Wide, robust crusher discharge conveyor, discharge height 13' 1"
- > Extended conveyor⁺ with a discharge height of 14' 11", can be hydraulically folded
- > Complete conveyor housing⁺ for dust reduction - can remain on the conveyor for folding

Magnetic separator⁺

- > Electromagnet or permanent magnet
- > Can be raised and lowered hydraulically via remote control

> Safety & ergonomics

- > Easy physical and visual access to all components enables fast and convenient servicing
- > All hydraulic cylinders are equipped with safety valves (lowering/brake holding valves); each cylinder remains in its current position in the event of shutdown or malfunctioning
- > Simple refuelling from the ground through refuelling pump⁺
- > LED lighting included in basic plant; Premium lighting⁺ for extended illumination of work areas

> Transport

- > Can be quickly switched to the transport position
- > Weight reduction via removal of plant components, e.g. chute and prescreen
- > The foldable side discharge conveyor⁺ and rock hammer⁺ can remain on the machine for transport

> Environment

- > Thanks to the electric drive, hydraulic oil is only required for setting and set-up functions, which reduces the environmental impact and maintenance costs
- > Effective dust reduction thanks to water spray systems at the crusher inlet and crusher discharge conveyor, reduction of dust volume of up to 50% (depending on material)

TECHNICAL INFORMATION MC 120i PRO

Feed capacity up to approx. (US t/h)	717 ¹⁾
Crusher inlet width x depth (inch)	48" x 32"
Max. feed size (inch)	43" x 27"
Transport height approx. (inch) *	13' 5"
Transport length approx. (inch) *	63' 6"
Transport width approx. (inch) *	9' 10"
Transport weight of basic plant - max. configuration (lbs)	1 69 800 - 1 89 600

¹⁾ depending on the type and composition of the feed material, the feed size, prescreening and the final grain size to be achieved

* Without options

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SPECTIVE
CONNECT

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