A WIRTGEN GROUP COMPANY

KLEEMANN


# MCO 110(i) PRO

MOBILE CONE CRUSHER MOBICONE

MOBICONE PRO

# MOBICONE MCO 110(i) PRO

A true powerhouse: The MOBICONE MCO 110(i) PRO mobile cone crusher excels with its extremely robust design and very high performance, and is therefore ideally equipped for use in hard stone.

The combination of the large-stroke cone crusher, powerful crusher drive and sturdy crusher design ensures maximum crushing performance. High throughput is generated thanks to the 3-arm design and large passage area. Optimum loading of the crushing unit guarantees a high final grain quality.


**Performance in the foreground**

**Operability at its easiest**

**Product quality at a glance**

# MOBICONE MCO 110(i) PRO


SPECTIVE CONNECT

1 Feeding unit

2 Continuous Feed System CFS

3 Crusher unit

4 Drive

5 Operating concept

6 Crusher discharge conveyor

> Handling and sustainability

+ Option

# 1 Feeding unit

- > Sturdy feeding unit made of wear-resistant steel or with replaceable wear lining
- > Simple sliding mechanism for fast set-up and transport, easy adaptation of the material discharge pattern into the crusher
- > Hopper filling aid+ for rear loading using a wheel loader
- > Support beam to protect the belt and for optimal material guidance; robust feed area with buffered rollers
- > Impact bar with individually changeable closing elements
- > Metal detector as standard equipment and magnetic remover+ for optimal operational reliability




+ Option

## 2 Continuous Feed System CFS

- > Continuous crusher loading thanks to optimum feed control - for daily outputs of up to 10% higher
- > Control is achieved by monitoring
  - > the crusher fill level
  - > the crusher drive's capacity utilisation
  - > the crusher's speed
  - > the stockpile probe+ on the crusher discharge conveyor
- > Depending on the crusher level, the conveying speed is throttled or increased continuously and automatically


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# 3 Crusher unit

> Cone crusher with large stroke for maximum crushing capacity; 3-arm crusher design for high throughput

> Simple tool changes without sealing compound

> Convenient automatic gap setting and zero-point determination via touch panel, no set-up times required

**Overload system**

> Integrated **"Tramp Release System"** overload system for protection in the event of uncrushable materials such as wood or metal

> Intelligent **"Ringbounce Detection"** overload detection protects the crusher against damage, 2 modes available:

> Mode 1 – PRECISE MODE for the production of grit; machine stops feeding with latent overload (ringbounce), process can be adjusted, no production of oversize grain results in best quality

> Mode 2 – MIXTURE MODE for the production of mixtures; crushing gap is adjusted automatically to prevent ringbounce, gap is closed again after a prespecified time

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## 4 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
- > Innovative structure on two levels for best possible access and ideal centre of gravity distribution
- > Electrical connection + for supply of other downstream units such as a stacker
- > Raised air intake + for longer filter service life

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SUSTAINABILITY

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


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# 5 Operating concept

- **Touch panel:** with menu-guided operation, visualisation and support; status display of all components such as speed, temperature, etc., rapid fault localisation 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
- **WITOS FleetView 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 determines the production data


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# 6 Crusher discharge conveyor

- > Wide, robust crusher discharge conveyor for optimum material discharge
- > Extended crusher discharge conveyor+ for higher discharge height is available; folds hydraulically for transport
- > External oversize grain returning+ from downstream mobile screening plant, can be mounted on both sides
- Belt cover+ for dust reduction, available for both crusher discharge conveyors


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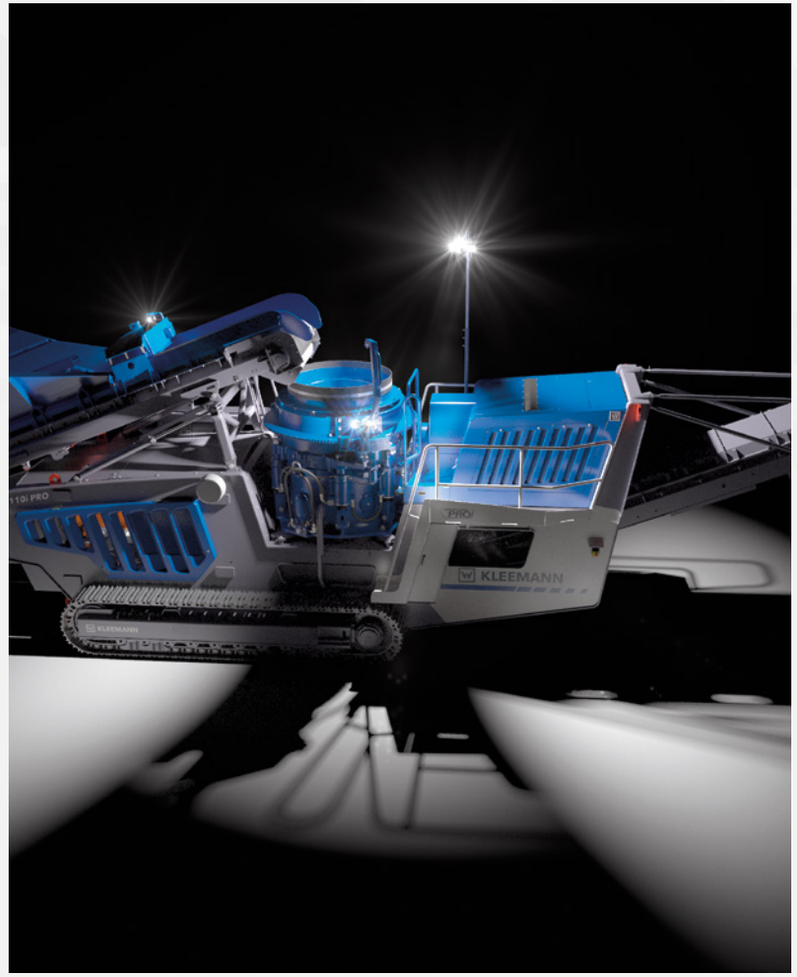
## > Safety & ergonomics

- > Faster, more convenient servicing possible thanks to accessibility to all components
- > All function- and safety-related 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
- > LED lighting included in basic plant; Premium lighting + for extended illumination of work areas

## > Transport

- > Simple transport thanks to hydraulic folding and swivel functions, and thus short set-up times
- > Transport as a single unit (except for the return conveyor) possible in upright position on low-loader
- > Simple slide mechanism on feeding unit, no parts need to be removed 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)

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| TECHNICAL INFORMATION | MCO 110(i) PRO |
|---|---|
| Feed capacity up to approx. (t/h) | 470 |
| Crusher system size (mm) | 1,120 |
| Feed size max. (mm) | 240 |
| Transport height approx. (mm) * | 3,850 |
| Transport length approx. (mm) * | 17,595 |
| Transport width approx. (mm) * | 3,000 |
| Transport weight of basic plant – max. configuration (kg) | 49,500 – 58,000 |

* without options


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