

**1 Sturdy feeding unit**  
made of wear-resistant steel or with replaceable wear lining

**2 Optimum crusher level**  
through continuous crusher loading CFS

**3 Cone crusher with large stroke for maximum crushing capacity**

**4 Convenient automatic gap setting** via touch panel

**5 Low consumption** thanks to efficient and powerful diesel-electric drive, external power supply possible

**6 Simple, intuitive control concept**

**7 Wide and robust crusher discharge conveyor**

**A Easy to transport** thanks to compact dimensions

**B Safety and ergonomics** through clear machine design

 **SPECTIVE**



**MOBICONE**  
**PRO**

**+** The MOBICONE MCO 11 PRO is characterised by its extremely robust design and very high performance. The plant can be operated via an external power source as an option and impresses with its low-maintenance operation.





**01 Feeding unit**

- ❑ Easy slide mechanism for quick setup
- ❑ Slide mechanism makes it possible to adapt the material discharge pattern to the crusher
- ❑ Hopper made from wear-resistant steel, filling aid for rearward loading by wheel loader
- ❑ Support beam to protect the belt from wear and for optimum material guidance even during material feed; robust feeding area thanks to buffered rollers
- ❑ Impact bars with individually replaceable wear elements
- ❑ Metal detector as standard and magnetic remover<sup>+</sup> sensibly arranged for best operation reliability



Slide mechanism for adapting discharge pattern

Feed hopper with replaceable wear lining<sup>+</sup>**02 Continuous Feed System (CFS)**

- ❑ Continuous crusher loading with Continuous Feed System (CFS):
  - 1 Regulation is by means of monitoring
    - > the fill level of the crusher
    - > the capacity utilisation on the crusher drive
    - > the speed of the crusher
    - > the pile sensor<sup>+</sup> on the crusher discharge conveyor
  - 2 The conveying capacity of the feeding conveyor is adapted (infinitely variable and frequency-controlled) depending on the fill level of the crusher
- ❑ Result: Continuous optimum crusher level for highest performance and best final product quality



Optimum crusher loading

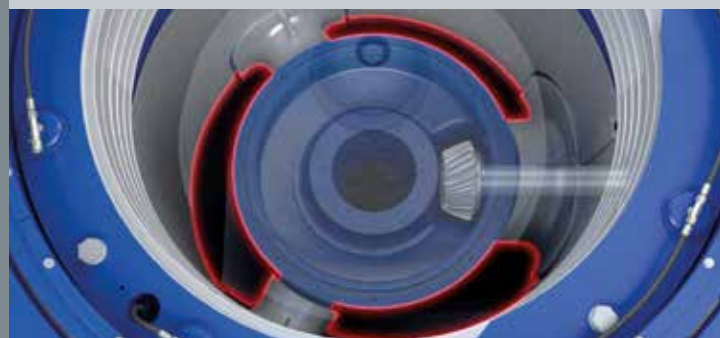
- ❑ Simple slider mechanism allows the material discharge pattern to be adapted to the crusher for optimum filling

**03 Crusher unit**

- ❑ Cone crusher with large stroke for maximum crushing capacity
- ❑ Stable crusher design and high crusher drive power (250 kW)
- ❑ Large passage area, 3-arm crusher design (integrated drive shaft) for greater delivery rate
- ❑ Reliable overload system for protection against uncrushable material ("Tramp Release System")
- ❑ Intelligent overload detection ("Ring Bounce Detection") protects the crusher against damage, 2 modes available



Overload system



Greater passage area

- ❑ Simple tool change without sealing compound

**04 Gap setting**

- ❑ Automatic gap setting and zero point determination
- ❑ Safe and comfortable operation from the ground, simple and intuitive setting and adjustment work via touch panel, no setup times



Zero-point determination

**05 Drive**

- ❑ Innovative layout of drive unit:
  - > Lower level: Diesel engine with generator, lubricant oil supply of crusher, easy service accessibility to all key components, simple refuelling from the ground
  - > Upper level: Crusher drive, external power supply<sup>+</sup>, drive system
  - > Ideal centre of gravity



Layout of drive unit

- ❑ Efficient and powerful diesel-electric drive for low consumption
- ❑ External power supply<sup>+</sup> for even greater power efficiency by reducing operating costs in quarrying (service intervals for diesel engine, replacement of filters,...)
- ❑ Powerful electric belt drives
- ❑ Electrical connection<sup>+</sup> for supply of downstream units such as stockpile belt
- ❑ Heat package<sup>+</sup> (-15 to + 50°C) or cold package<sup>+</sup> (-25 to + 40°C)

**06 Control system**

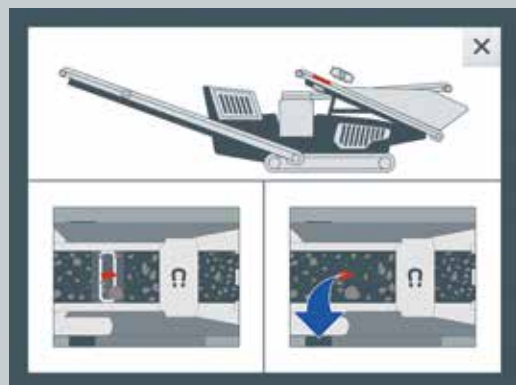
- ❑ Simple and intuitive control concept
- ❑ 12" touch panel with menu-guided operation and visualisation
- ❑ Door-in-door system with separate flap in control cabinet - plant can be controlled through small flap
- ❑ All components and functions can be controlled via the touch panel; status display of all component such as speed, temperature, pressure, etc.; quick fault detection, display in plain text format
- ❑ Dust-protected and vibration-protected control cabinet provides maximum protection of the control elements
- ❑ Radio remote control for operation of all important components
- ❑ Camera system<sup>+</sup> for monitoring crusher and feed hopper, remote monitor<sup>+</sup> in digger



- ❑ Wear indicators for detecting the current wear on the crushing tool - for reducing machine downtimes and maximising the service life of the crushing tool; including guided wear measurement
- ❑ Telematic system WITOS FleetView for efficient fleet and service management - with information on the operating status of the machines independent of location and time



Intuitive plant overview



Instructions for easily rectifying faults

**07 Crusher discharge conveyor**

- ❑ Wide and robust crusher discharge conveyor
- ❑ Extended crusher discharge conveyor<sup>+</sup> available for higher discharge height; can be folded hydraulically for transport
- ❑ Monitored crusher discharge conveyor; material feed is switched off in the event of a standstill
- ❑ Extended belt cover<sup>+</sup> for dust reduction, available for both belts
- ❑ External oversize grain returning<sup>+</sup> from downstream mobile screening plant, can be mounted on both sides
- ❑ Pile sensor<sup>+</sup> in connection with line coupling, for monitoring stockpile volume and downstream plant



Crusher discharge conveyor



Oversize grain return conveyor

**A Transport**

- ❑ Simple preparation for transportation thanks to hydraulic functions:
  - > Extended crusher discharge conveyor (inc. cover)
  - > Filling aids
  - > Moving feeding unit



Folding, extended crusher discharge conveyor



Transport as one unit

- ❑ Transport as one unit (apart from return conveyor) possible in upright position on low-loader
- ❑ Simple slider mechanism of feeding unit for fast setup, no parts need to be removed for transport

**B Safety and ergonomics**

- ❑ Quick and convenient service possible with accessibility to all components
- ❑ All function- and safety-relevant cylinders are equipped with safety valves (lowering/brake holding valves), each cylinder stays in the current position in the event of deactivation or failure
- ❑ Simple refuelling from the ground
- ❑ Demand-based spray system and LED lighting included with basic system; premium lighting<sup>+</sup> available
- ❑ Electric oil level for diesel engine, can be easily read via display



Good accessibility for servicing

Premium lighting<sup>+</sup><sup>+</sup> Option

TECHNICAL INFORMATION	MCO 11 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