MCO 9 EVO | MCO 9 S EVO

Wide and robust **6** **main discharge conveyor**

Efficient and powerful **4** **diesel direct electric drive**

3 **Cone crusher with large stroke** for maximum crushing capacity and high fine grain production

2 Continuous crusher feeding with **CFS**

1 **Quick setup** thanks to simple slide mechanism

Simple control with **5** menu-guided touch panel

High-performance screening unit with **7** extra-large screening surface (MCO 9 S)

A **Linkage:** Excellent linkage options with other Kleemann plants thanks to electric drives

B **Performance:** Realistic crushing capacity of up to 260 t/h

C **Design:** Clear machine design for easy service accessibility

MOBICONE EVO

The MCO 9 EVO is powerful, efficient and ideal for use in conjunction with the mobile jaw crusher MC 110 EVO.

01 Feeding unit

- Simple slide mechanism for quick setup, parts do not need to be disassembled for transportation
- Slide mechanism enables adjustment of the material discharge pattern into the crusher
- Magnet and metal detector (both options) in appropriate sequence for optimal operational safety
- Sliding elements under the belt conveyor for optimal sealing and stability
- Discharge beam (dead box) in bolted version and material crusher flap to protect the belt and for optimal material guidance during material loading
- Optional hopper extension, basic hopper made from wear-resistant steel, in screwed-on version

Feeding unit with discharge beam (dead box)

02 Continuous Feed System CFS

- Continuous crusher feeding with CFS:
  1. Filling level is monitored using ultrasonic sensor
  2. Depending on the filling level of the crusher, the frequency-controlled adjustment of the output of the feeding conveyor is effected
- Result: Continuous optimal crusher filling level for maximum performance and excellent end product quality

CFS for optimal crusher filling level

03 Crusher unit

- Cone crusher with large stroke for maximum crushing capacity and high fine grain production
- Robust crusher design and high crusher drive power enable a higher crushing ratio
- Integrated overload system for protection in the case of uncrushable material such as wood or metal (“Tramp Release System”)
- Optional anti-spin system (cone brake) prevents unwanted spinning of crusher cone for the reduction of wear on bearings
- Quick tool change without casting compound – irrespective of ambient temperatures
- Fully automatic crusher gap setting and zero point detection
- Short warm-up phase thanks to high-performing lubricating oil heating

04 Drive

- Efficient and powerful diesel direct electric drive for minimal consumption per ton end product
- High-performance electric drives of belts and classifying screen (MCO 9 S) – low power consumption, no risk of hydraulic leaks
- High operational reliability with fluid coupling
- Very good service accessibility to all important components
- Three exhaust emissions standards available (LRC, Stage 3A, Stage 4f)

Efficient and powerful diesel direct electric drive

05 Control system

- Simple control with touch panel with menu-guided operation and visualisation
- Familiar Kleemann operating concept like with all EVO plants – no familiarisation necessary
- All components and functions are controllable; status display of all components such as speed, temperature, pressure, etc.
- Quick fault location, display in plain text format
- Optimal protection of control elements with dust-protected and vibration-absorbed control cabinet
- Separate flap in control cabinet for easy access to operator panel
- Radio remote control for the operation of all key components

Easy accessibility with separate flap in control cabinet

TECHNICAL INFORMATION	MCO 9 EVO	MCO 9 S EVO
Feed capacity up to approx. [t/h]	260	260
Crusher inlet (B x H) [mm]	950	950
Feed size max. [mm]	210	210
Transport height approx. [mm]	3,400	3,600
Transport length without (with) screening unit approx. [mm]	16,150	16,940 (20,770)
Transport width approx. [mm]	3,000	3,240
Transport weight without (with) screening unit approx. [kg]	28,000	33,000 (38,500)
Transport weight screening unit approx. [kg]	-	5,500

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06 Main discharge conveyor

- Wide and robust main discharge conveyor
- Extended main discharge conveyor for higher discharge height available as an option; can be folded hydraulically for transportation (option)

- Standard belt cover under power supply unit, optional extended belt cover

- Optional additional conveyor for external oversize grain return conveyor of downstream mobile screen plant, can be assembled on both sides

07 Screening unit with return conveyor (MCO 9 S)

- Single-deck vibrating screen with extra-large screening surface for effective screening, also for small grain sizes less than 30 mm

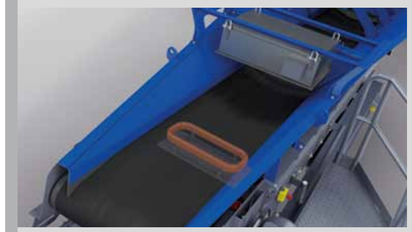
- Maximum discharge height for large stockpiles or optional transfer to subsequent crushing or screening stage
- Oversize grain return conveyor for closed material cycle
- Oversize grain return conveyor can be swivelled 100° for side discharge
- MCO 9 S with more powerful hydraulic drive, large running gear and reinforced chassis
- Simple disassembly of the classifying screen and simplified transport thanks to compact container dimensions (width < 3 m)
- Classifying screen located on skids for simple loading by hook-lift system
- Transport-friendly weight

A Plant linkage

- Excellent linkage options with other Kleemann plants
- Electric drives enable excellent material flow concept over several crushing and screening stages:
  1. Control of feeder trough speed of primary crusher depending on the filling level of the cone crusher in the subsequent crushing stage
  2. Conveying elements do not switch off completely and can resume the delivery again straight away when the crusher becomes free
  3. Emergency-stop control via all crushing and screening stages
  4. Transfer heights compatible with other Kleemann plants
  5. Separate return conveyor for closed cycle with separate downstream screening plant (e.g. Kleemann MOBISCREEN MS 16 D)

B Performance and availability

- Realistic crushing capacity of up to 260 t/h with special crusher and material flow innovations:
  1. High drive power with powerful and efficient direct drive
  2. Robust, optimised crusher housing design
  3. Cone crusher with largest stroke in its class



Magnet and metal detector for optimal operational reliability

- High availability:
  1. Magnet and metal detector (optional)
  2. Tramp Release System, Overload protection
  3. Clearing function (manual lifting of crusher mantle)
  4. Quick tool change without casting compound

C Design

- Clearly structured, clever plant design
- Excellent service accessibility, primarily in drive area and at crusher

Clever plant design