KLEEMANN

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

Efficient and 4 powerful **diesel direct drive**

2 Continuous crusher loading thanks to **CFS**

1 **Quick to set up** with simple slide mechanism

Wide and robust 6 **crusher discharge conveyor**

Easy control 5 via menu-guided touch panel

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

A **Linkage:** Easy linkage options with other KLEEMANN plants

B **Transport:** Simple transportation thanks to compact dimensions

C **Accessibility and safety:** Optimum access to all operation-related components

MOBICONE EVO

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

KLEEMANN

MOBICONE EVO

MOBICONE EVO

MOBILE CONE CRUSHERS MCO 9 | 9 S EVO

A WIRTGEN GROUP COMPANY

01 Feeding unit

- Simple slide mechanism for fast set-up, no parts need to be removed for transport
- Slide mechanism makes it possible to adapt the material discharge pattern into the crusher
- Standard series metal detector and magnetic remover+ in a logical order for optimum operating safety
- Combination of sliding elements and support rollers under the belt for optimum sealing and stability
- Relief bar (in screwed-on version) and material baffle plate to protect the belt from wear and for optimum material guidance even during material feed
- Impact bar with individually changeable closing elements
- Hopper extension+ for basic hopper made from wear-resistant steel in screwed-on version

Feeding unit with relief bar

02 Continuous Feed System (CFS)

- Continuous crusher loading with Continuous Feed System (CFS):

1 Control is effected by monitoring

> the crusher fill level

> the load on the crusher drive

> the crusher speed

> the dump sensor+ on the crusher discharge conveyor

2 The conveying capacity of the feeding conveyor is adapted (infinitely variable and frequency-controlled) to the fill level of the crusher

- Result: Continuous optimal crusher level for maximum performance and excellent final product quality

CFS for optimal crusher level

03 Crusher unit

- Cone crusher with large stroke for maximum crushing capacity; three-arm crusher design for increased throughput
- Stable crusher design and high crusher drive power enable a higher crushing ratio
- Integrated overload system for protection with uncrushable materials such as wood or metal („Tramp Release System“)
- Intelligent overload detection ("Ring Bounce Detection") protects the crusher from damage; choose from two modes
- Fast tool change without sealing compound – regardless of the outside temperatures

Crusher unit

- Automatic crusher gap setting and zero point calculation
- Short warm-up phase thanks to high-performance lubricating oil heating

04 Drive

- Efficient and powerful diesel direct drive for minimal consumption per ton of end product
- High-performance electric drives for the belts and the secondary screening unit+ (MCO 9 S) – low consumption, no risk of hydraulic leaks
- High operating safety ensured by fluid coupling
- Easy service accessibility to all important components
- Heat package+ (-15 to + 50 °C) or cold package+ (-25 to + 40 °C)

Efficient and powerful diesel direct drive

05 Control system

- Easy control via touch panel with menu-guided operation and visualisation
- All components and functions can be controlled via the touch panel; status display of all components, e.g. speed, temperature, pressure, etc.
- Quick fault localisation, display in plain text format
- Dust-protected and vibration-protected control cabinet provides maximum protection of the control elements
- Separate door in the control cabinet for easy access to control panel
- Radio remote control to operate all important components
- Camera system+ for monitoring the crusher and hopper, remote monitor+ in the excavator
- Wear indicator for recording the current wear on the crushing tool – to reduce machine downtimes and maximise the service life of the crushing tool; including menu-guided wear measuring

Easy accessibility with separate flap in control cabinet

06 Crusher discharge conveyor

- Wide and robust crusher discharge conveyor
- Extended crusher discharge conveyor+ for higher discharge height available; folds hydraulically for transport

Extended crusher discharge conveyor

- Standard belt cover and extended belt cover+ available
- Belt scale+ available for crusher discharge conveyor

Oversize grain return conveyor

- Additional belt+ for external oversize grain return from downstream mobile screening plant, can be mounted on both sides (only on MCO 9 EVO)

07 Secondary screening unit+ with return conveyor (MCO 9 S EVO)

- Single-deck vibrating screen with extra-large screening surface for effective screening even with small grain sizes under 30 mm

Secondary screening unit

- Maximum discharge height for large stockpiles or optimum transfer to downstream crushing or screening stage
- Oversize grain return for closed material loop
- Oversize grain return conveyor, 100° hydraulically swivel-mounted for side discharge
- MCO 9 S with stronger drive unit, larger running gear and reinforced chassis

A Plant linkage

- Excellent linkage options with other KLEEMANN plants
- Electric drives enable excellent material flow control over several crushing and screening stages
- Separate return conveyor+ for closed cycle with separate downstream screening plant (e.g. KLEEMANN MOBISCREEN MS 953 EVO)
- Line coupling+ for interlinking with other KLEEMANN plants:

> Process coupling: Sensor on upstream machine monitors feeding unit fill level on the downstream machine and controls the production output of the upstream plants accordingly

> Safety coupling: Machines are connected via cables; if any emergency stop button on the plant train is pressed, all machines are stopped safely

Interlinked plant train

B Transport

- High flexibility for changing work locations
- Short set-up times thanks to simple set-up process using the slide mechanism on the feeding unit

Easy to transport

- Easy removal of the secondary screening unit and convenient transport due to compact container dimensions (width < 3 m)
- Secondary screening unit mounted on skids for easy loading using hook-lift system
- Low weight makes for easy transportation

C Accessibility and safety

- Clearly structured, sophisticated plant design
- Easy service accessibility, particularly in the drive area and at the crusher

Sophisticated plant design

- 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
- Spray system and LED lighting included in basic plant; premium lighting+ available

+ Option

TECHNICAL INFORMATION	MCO 9 EVO	MCO 9 S EVO
Feed capacity up to approx. (t/h)	270	245*
Crusher system size d= (mm)	970	970
Feed size max. (mm)	200	200
Transport height approx. (mm)	3,400	3,600
Transport width approx. (mm)	3,000	3,200
Transport length without screening unit approx. (mm)	16,140	16,675**
Transport length with screening unit approx. (mm)	-	20,770
Transport weight of basic plant – max. configuration approx. (kg)	-	41,000-42,500
Transport weight of screening unit ca. (kg)	-	6,100

* in a closed circuit ** Secondary screening unit separate, e.g. as hook-lift system

MOBICONE MOBILE CONE CRUSHERS

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