MOBICONE MCO 9i | MCO 9 Si EVO

- **Wide and robust crusher discharge conveyor**
- **Efficient and powerful diesel-direct drive**
- **Continuous Feed System (CFS)**
- **Simple control with menu-guided touch panel**
- **Cone crusher with large stroke for maximum crushing capacity**
- **Quick setup time with simple slide mechanism**
- **High-performance secondary screening unit with extra-large screening surface (MCO 9 Si)**
- **Linkage**: Excellent linkage option with other KLEEMANN plants thanks to electric drives
- **Performance**: Realistic crushing capacity of up to 298 US t/h
- **Design**: Clear machine design for good service accessibility

The MCO 9i EVO is a high-performance and efficient machine and ideal for use with the mobile jaw crusher MC 110 EVO.
MOBICONE MOBILE CONE CRUSHERS MCO 9i  | MCO 9 Si

Feeding unit with support beam

01 Feeding unit

- Simple slide mechanism for fast setup, no parts to be removed for transport
- Slide mechanism makes it possible to adapt the material discharge pattern to the crusher
- Magnet and metal detector in logical sequence for maximum operating safety
- Sliding elements under the feeding conveyor for maximum sealing and stability
- Support beam (in screwed-on version) and material crushe flap to protect the belt from wear and for optimum material guidance even during material feed
- Optional hopper extension, basic hopper made from wear-resistant steel, in screwed-on version

02 Continuous Feed System (CFS)

- Continuous crusher loading thanks to CFS:
  1. Fill level is monitored by ultrasonic probe
  2. Conveying capacity of the feeding conveyor is adapted (frequency-controlled) depending on the fill level of the crushe
- Result: Optimum crushe level maintained at all times for highest capacity and maximum final product quality

03 Crusher unit

- Cone crusher with large stroke for maximum crushing capacity; 3-arm crushe design for increased throughput
- Stable crushe design and high crushe drive power enable a higher crushing rate
- Integrated overload system for protection in the case of uncrushable material such as wood or metal (‘Tramp Release System’)
- Quick tool change without sealing compound - irrespective of the ambient temperatures

04 Drive

- Efficient and powerful diesel-directdrive for lowest consumption per tonne of end product
- High-performance electric drives of balls and secondarv screening unit (MCO 9 Si) - low consumption, no risk of hydraulic leaks
- High operating safety through fluid coupling
- Very easy service accessibility to all important components

05 Control system

- Easy control with touch panel and menu-guided operation and visualisation
- Same familiar KLEEMANN operating concept used in all EVO systems – no retraining necessary
- All components and functions can be controlled; status display of all components for parameters such as speed, temperature, pressure, etc.
- Quick fault localisation, display in plain text format
- Dust- and vibration-protected control cabinet provides maximum protection of the control elements
- Separate flap in the control cabinet for easy access to control panel
- Radio remote control for operating all important components

06 Crusher discharge conveyor

- Wide and robust crushe discharge conveyor
- Extended crushe discharge conveyor for increased discharge height available as an option; folds hydraulically for transport (optional)

07 Secondary screening unit with return conveyor (MCO 9 Si)

- Single-deck vibrating screen with extra-large screening surface for effective screening, also for small grain sizes less than 1.2 in.
- Maximum discharge height for large stockpiles or optimum transfer to downstream crushing or screening stage
- Oversize grain returning for closed material loop
- Return conveyor 100° swivel-mounted for side discharge
- MCO 9 Si with powerful drive unit, larger running gear and reinforced chassis
- Easy removal of the classifying screen and convenient transport due to compact container dimensions
- Classifying screen mounted on skids for easy loading using hook-lift system
- Weight suitable for easy transportation

A Plant linkage

- Excellent linkage options for linking with other KLEEMANN plants
- Electric drives enable excellent material flow control over multiple crushing and screening stages:
  1. Control of the conveying speed of the primary crushe depending on the fill level of the cone crushe in the downstream crushing stage
  2. Conveyor elements do not shut off completely during this process and can resume conveying immediately once the crushe is available again
  3. Emergency stop control over all crushing and screening stages
- Transfer heights compatible with other KLEEMANN plants
- Separate return conveyor for closed loop with subsequent separate screening plant (e.g. KLEEMANN MOBISCREEN MS 16 D)
- Clearly structured, well-conceived plant design
- Easy accessibility with separate flap in control cabinet
- Magnet and metal detector for optimal operational reliability
- High availability:
  1. Magnet and metal detector
  2. Tramp Release System (overload protection)
  3. Clearing function (manual lifting of bowl outer)
  4. Fast tool change without sealing compound

B Performance and availability

- Realistic crushe capacity of up to 298 US t/h with special crushe and material flow innovations:
  1. High drive power through powerful and low-loss direct drive
  2. Stable, performance-optimized crushe housing design
  3. Cone crushe with the largest stroke of its class

C Design

- Clearly structured, well-conceived plant design
- Easy accessibility with separate flap in control cabinet
- Very easy service accessibility, particularly in the drive area and at the crushe

For further information: www.wirtgen-group.com/america