

> THE TEAM PLAYER IN HARD STONE



# MOBICONE MCO 90(i) EVO2



## Cost-effectiveness at its best



The cost-effective use of crushing and screening plants depends on many factors: thanks to low operating costs, a outstanding performance and optimum transportability, efficient operation can be guaranteed and, ultimately, a low cost rate per ton can be achieved. These are the strengths of the MOBICONE MCO 90(i) EVO2.

## Operability at its most intuitive



**Even though the functions of crushing plants are becoming more and more demanding, we continue to make their operation easier.**

The **SPECTIVE** operating concept allows the simple and intuitive utilisation of the machines' potential.

**SPECTIVE CONNECT** is the logical extension because here the human interface of the crusher is brought to the operator in the excavator or the wheel loader. Over and above relevant data such as speed, consumption

values, productivity and filling levels, fault messages are also presented. Work does not have to be interrupted in order to view the status. This enables transparent, safe and efficient operation.

Furthermore, important process and machine data can be summarised in a report and conveniently transmitted. Potential can therefore be fully exploited and the yield increased - with knowledge ensuring a higher output.

## Product quality at a glance



**Top product quality is expected from a cone crusher - and this is what the MCO 90(i) EVO2 delivers together with a high production capacity.**

The MCO 90(i) EVO2, with its different crushing tools, covers gap widths ranging from 6 to 45 mm. Further conversion tasks on the crusher are not required for this wide range of applications.

Depending on the application, you can use the control system to define whether the machine's overload systems are to be tuned more to output or to product quality.



TECHNICAL INFORMATION	MCO 90(i) EVO2
Feed capacity up to approx. (t/h)	270
Crusher system size (mm)	970 mm
Max. feed size (mm)	200 mm
Transport height approx. (mm)	3,400
Transport length approx. (mm)	16,000*   20,200**
Transport width approx. (mm)	3,000
Transport weight of basic plant - max. configuration (kg)	33,500 - 49,000
* without options    ** with optional secondary screening unit	

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## &gt; TECHNICAL HIGHLIGHTS

## MOBICONE MCO 90(i) EVO2



## 1 Feeding unit

- > Simple sliding mechanism for fast set-up and transport, easy adaptation of the material discharge pattern into the crusher
- > Impact bars with individually replaceable wear elements
- > Filling aid<sup>+</sup> enables a rear-side feeding width of up to 3.7 m, hopper extension<sup>+</sup> (8.3 m³) for increased feeding volume
- > Metal detector and magnetic remover<sup>+</sup> for optimal operational reliability

## 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 load on the crusher drive
  - > the crusher speed
  - > the stockpile probe on the crusher discharge conveyor
- > Depending on the crusher level, the conveying speed is throttled or increased continuously and automatically - the control range of the feeding conveyor has been extended by close to 40%

## 3 Crusher unit

- > Cone crusher with large stroke for maximum crushing capacity; 3-arm crusher design for a high throughput
- > High crusher drive power for a continuous crushing process and higher production volume in special applications
- > Convenient gap setting via radio remote control and zero-point determination via touch panel
- > Rapid heating-up phase for fast application following start-up
- > Ease of physical and visual access thanks to a second inspection hatch
- > Simple tool changes without sealing compound

## 4 Overload system

- > Integrated "Tramp Release System" overload system for protection with uncrushable materials such as wood or metal

- > Intelligent overload detection ("Ringbounce Detection") protects the crusher against damage, 2 modes available:
  - > Mode 1 - PRECISE MODE for the production of grit; machine stops feeding with latent overload (ring-bounce), process can be adjusted, no production of oversize grain for 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



## 5 Drive

- > Efficient and powerful direct-drive crusher with low fuel consumption; conveyors are driven electrically
- > Output-dependent fan for low noise and economic operation
- > Heat package<sup>+</sup> (-15 to +50 °C) or cold package<sup>+</sup> with auxiliary heater (-25 to +40 °C)
- > Double cooling capacity for an extended area of operation

## 6 SPECTIVE control system

- > **SPECTIVE touch panel:** with menu-guided operation, visualisation and support; status display of all components such as speed, temperature, etc., fast error-tracking and diagnosis
- > **SPECTIVE CONNECT<sup>+</sup>:** all important information directly on the smartphone
- > **SPECTIVE radio remote control:** for operation of all important components
- > **SPECTIVE radio remote control, small<sup>+</sup>:** the most important operating functions conveniently combined, minimum space requirements in the operator cabin
- > **Camera system<sup>+</sup>:** convenient monitoring of crusher and hopper, remote monitor in the excavator

## SPECTIVE

- > **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<sup>+</sup>:** process coupling for controlling production output; safety coupling for safe linking of the plants in a line team

## 7 Secondary screening unit

- > Single-deck vibrating screen with optimised area utilisation thanks to diffusor for improved material distribution
- > Practical discharge height for large stockpile volumes or the optimal transfer to crushing or screening plant
- > Oversize grain returning for closed material loop, with transfer chute integrated into the hopper
- > Oversize grain return conveyor<sup>+</sup> 100° hydraulically swivel-mounted for side discharge
- > Easy and fast assembly and disassembly of the post screening unit within a few minutes; trouble-free transport thanks to compact container dimensions (width < 3 m)

## &gt; Accessibility and safety

- > Quick and comfortable servicing thanks to ease of physical and visual access to all components
- > Simple refuelling from the ground, filling pump<sup>+</sup> available
- > Spray system and LED lighting included in the basic plant; premium lighting<sup>+</sup> for extended illumination of work areas
- > Central drain point for fluids for ergonomic maintenance

## &gt; Transport

- > Transport with and without post screening unit under a transport height of 3.4 m possible
- > Simple transport thanks to hydraulic folding and swivel functions, and therefore short set-up times
- > Convenient and safe set-up via radio remote control possible