



MCO 90(i) EVO2

MOBILE CONE CRUSHER MOBICONE





MOBICONE MCO 90(i) EVO2



- 1 Feeding unit
 2 Continuous Feed System CFS
 5 Drive
 6 SPECTIVE operating concept
- 7 Post screening unit
- > Handling and sustainability



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 wear elements that can be individually replaced
- > Hopper filling aid + enables a rear-side feeding width of up to 3.7 m, hopper extension + (8.3 m³) for increased feeding volume
- > Metal detector and magnetic remover + for optimal operational reliability



1 Feeding unit	4 Overload system	7 Post screening unit
2 Continuous Feed System CFS	5 Drive	Handling and sustainability
3 Crusher unit	6 SPECTIVE operating concept	+ Option



2 Continuous Feed System CFS

- > Continuous crusher loading thanks to optimum feed control for daily outputs that are up to 10% higher
- > Control is achieved by monitoring
 - > the crusher's fill level
 - > the crusher drive's capacity utilisation
 - > the crusher's speed
 - > the stockpile probe at 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 just under 40%



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- 3 Crusher unit

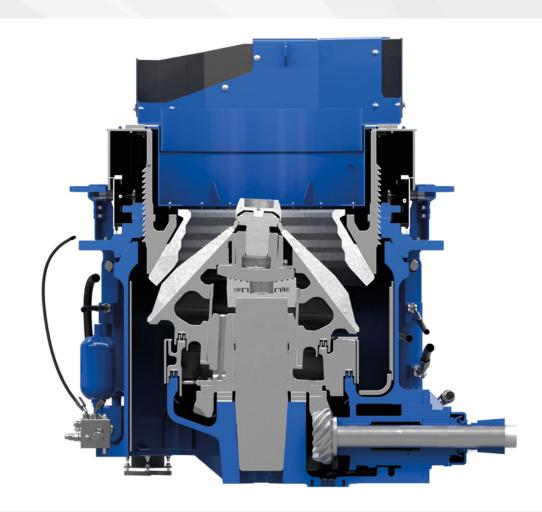
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3 Crusher unit

- > 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



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2	Continuous Feed System CFS	
3	Crusher unit	

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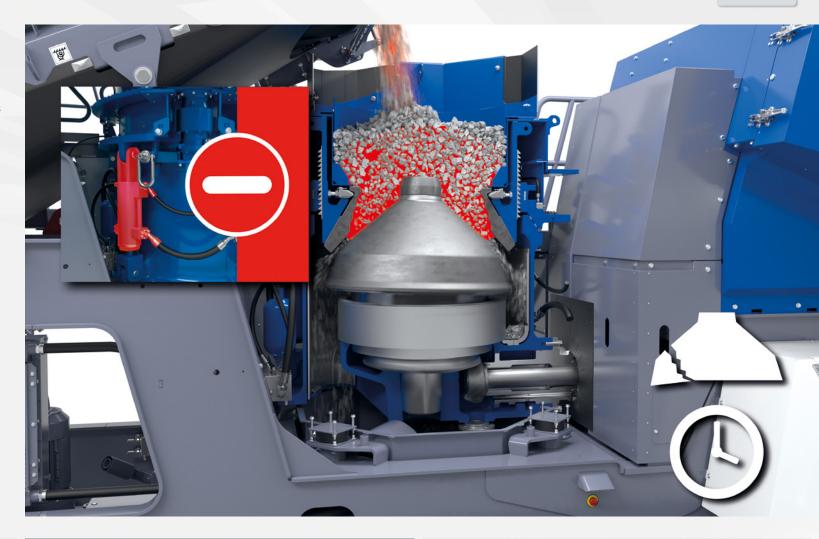
7 Post screening unit

Handling and sustainability



4 Overload system

- > Integrated "Tramp Release System" overload system for protection in the event of uncrushable materials such as wood or metal
- > Intelligent "Ringbounce Detection" overload detection protects the crusher against damage, 2 modes available:
- > PRECISE MODE: Production of grit; machine stops feeding with latent overload, process can be adjusted, no production of oversize grain for best quality
- > MIXTURE MODE: Production of mixtures; crushing gap is adjusted automatically to prevent ringbounce, gap is closed again after a specified time



1	Feeding unit
	Continuous Food Contour CFC

Overload system

Post screening unit

Continuous Feed System CFS

Drive

Handling and sustainability

Crusher unit

SPECTIVE operating concept



5 Drive

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



KLEEMANN SUSTAINABILITY describes innovative technologies and solutions which are consistent with the sustainability objectives of the WIRTGEN GROUP.



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6 SPECTIVE operating concept

- > SPECTIVE touch panel: with menu-guided operation, visualisation and support; status display of all components such as speed, temperature, etc., rapid fault localisation and diagnostics
- > **SPECTIVE CONNECT+:** for displaying all important information directly on the smartphone
- > Smart Job Configurator: configuration tool for simple determination of the optimal machine settings
- > SPECTIVE radio remote control: for operation of all important components
- > SPECTIVE radio remote control, small +: the most important operating functions conveniently combined, minimum space requirements in the operator cabin
- > Camera system +: for convenient monitoring of crusher and hopper, remote monitor in the excavator also available with radio extension, additional connection to SPECTIVE CONNECT

- > Operations center: platform for digital solutions for process and service optimisation as well as easier maintenance planning
- > Line coupling +: process coupling for controlling the production output; safety coupling for reliable interlinking of the plants in the plant train
- > Belt scale +: for all relevant conveyors to determine production data



1	Feeding unit
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Overload system

Post screening unit

Drive

Handling and sustainability

Crusher unit

SPECTIVE operating concept





7 Post screening unit

- > Post screening unit + available in two versions:
 - > Single-deck vibrating screen for the production of a classified final grain size
 - > Double-deck vibrating screen for producing two classes of final grain
- > Practical discharge height for large stockpile volumes or the optimal transfer to crushing or screening plants
- > Oversize grain returning for closed material loop, with transfer chute integrated in the hopper
- > Oversize grain returning + 100° hydraulically swivelmounted for side discharging
- > Easy and fast assembly and disassembly of the post screening unit within just a few minutes; trouble-free transport thanks to compact container dimensions (width < 3 m)



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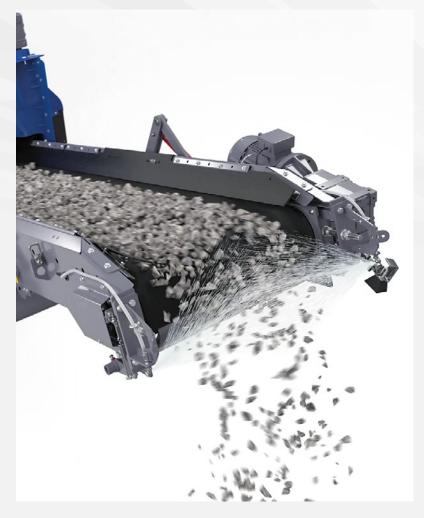
Accessibility and safety

- > Fast, convenient servicing possible thanks to ease of physical and visual access to all components
- > Simple refuelling from the ground, refuelling pump + available
- > Spray system and LED lighting included in the basic plant; premium lighting * for extended illumination of working areas
- > Central drain point for fluids enables ergonomic maintenance

Transport

Crusher unit

- > Transport with and without post screening unit under a transport height of 3,400 mm possible
- > Simple transport and short set-up times thanks to hydraulic folding and swivel functions
- > Convenient and safe set-up via radio remote control possible



Environment

- > Noise reduction: thanks to power- and load-dependent fans, it is up to 4 decibels quieter than the predecessor model
- > Dust containment: effective spray system at different material transfer points of the plant, e.g. crusher inlet, crusher discharge conveyor, side discharge conveyor, post screening unit
- > Reduced consumption thanks to ECO mode: all machine components - with the exception of the diesel engine and crusher - can be switched off at the push of a button



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Post screening unit



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 1) 20,200 2) 20,700 3)	
Transport width approx. (mm)	3,000 3,240 2) 3)	
Transport weight of basic plant - max. configuration (kg)	33,500 - 49,000	
1) without options 2) with optional single-deck post screening unit 3) with optional double-deck post screening unit		



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