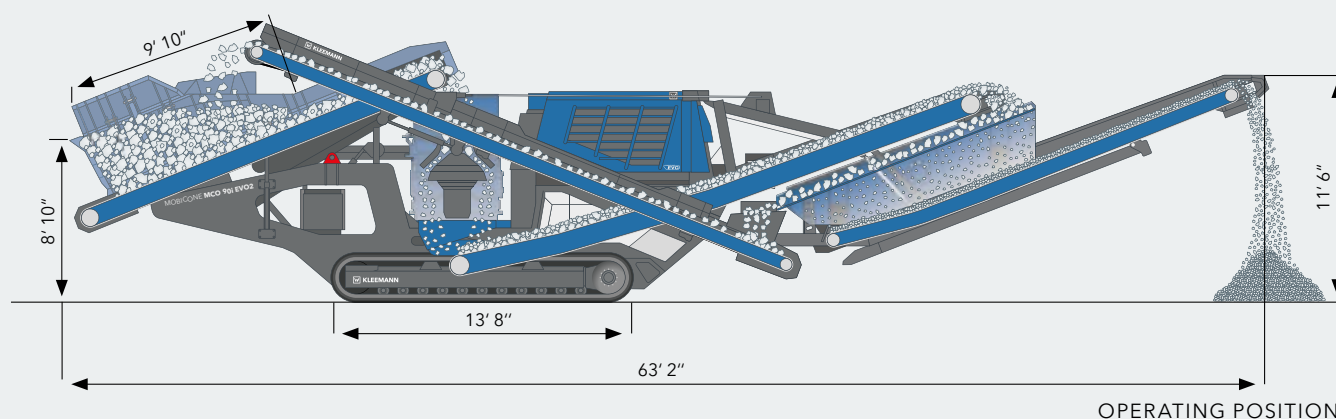




TECHNICAL INFORMATION | TRACK-MOUNTED CONE CRUSHERS

MOBICONE MCO 90i EVO2





TECHNICAL HIGHLIGHTS

- Base-mounted cone crusher with large stroke for high crushing capacity and top product quality
- Continuous Feed System (CFS) for optimum crusher loading
- Innovative overload systems for maximum machine availability

- Efficient and powerful diesel-direct drive with load-dependent fan
- Simple and intuitive SPECTIVE control concept
- Linkage option with other KLEEMANN plants

TECHNICAL INFORMATION MCO 90i EVO2

Feeding unit

Feed capacity up to approx. (US t/h) ¹⁾	298
Max. feed size (inch)	8"
Feed height approx. (inch)	8' 10"
Feed height with extension approx. (inch)	10' 8"
Hopper volume approx. (yd ³)	8.6
Hopper volume with extension approx. (yd ³)	10.9
Width x length approx. (inch)	9' 1" x 9' 10"
Width x length with extension approx. (inch)	12' 2" x 11' 6"

Feeding conveyor

Width x length (inch)	39" x 20' 12"
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Crusher

Cone crusher type	KX 250
Crusher system size d= (inch)	38"
Crusher weight approx. (lbs)	19,600
Crusher drive type, approx. (hp)	direct, 248
Plant performance at 0-1.3" approx. (US t/h)	242
Plant performance at 0-2.5" approx. (US t/h)	270 - 298

Crusher discharge conveyor

Width x length (inch)	31" x 29' 10"
Discharge height approx. (inch)	10' 10"

Power supply unit

Drive concept	diesel-direct ²⁾
Drive output of Scania diesel engine (hp)	385
Generator (kVA)	135

Secondary screening unit (optional)

Type	Vibrating single-deck screen
Width x length (inch)	4'4" x 13' 1"
Return conveyor approx. (inch)	20" x 29' 6"
Discharge height of fine grain discharge conveyor approx. (inch)	11' 6"

Transport dimensions without secondary screening unit

Transport length approx. (inch)	52' 8"
Transport weight of screening unit approx. (lbs) ³⁾	13,448
Transport weight basic system - max. equipment approx. (lbs)	77,250 - 82,800

Transport dimensions with secondary screening unit

Transport length with screening unit approx. (inch)	66' 3"
Transport width approx. (inch)	9' 10"
Transport height approx. (inch)	11' 2"
Transport weight basic system - max. equipment approx. (lbs)	98,250 - 102,600

¹⁾ closed circuit

²⁾ all ancillary drives electric

³⁾ e.g. as hook lift system



MOBICONE MCO 90i EVO2

The MOBICONE MCO 90i EVO2 stands out as a powerful team player in hard stone in the 2nd and 3rd crushing stages. Whereas top product quality can be expected from a cone crusher, the MCO 90i EVO2 adds an even higher production output to this. With different tools and without further conversion work on the crusher, the cone crusher covers a gap range of 3/16" - 1 3/4" - for an even larger range of applications. The plant is characterised by top economy, simple operation and innovative overload systems.

STANDARD EQUIPMENT

- Hopper made of KRS (KLEEMANN Resistant Steel), hopper volume approx. 8.6 yd³
- Frequency-controlled feeding conveyor, automatic control depending on crusher level thanks to CFS (Continuous Feed System)
- Magnetic remover for lifting out magnetic elements
- Metal detector under the feeding conveyor to protect the cone crusher against uncrushable metallic material
- Mechanical overload system in crusher for opening the crushing chamber if unbreakable material enters
- Intelligent overload detection ("Ringbounce Detection") protects the crusher against damage; two modes available
- Wear indicator for recording the current wear level on the crushing tool
- Lubrication of cone crusher guarantees rapid operational readiness, lubrication unit with six heating elements
- SPECTIVE control concept: menu-prompted user interface, 12-inch operator panel, lockable operating mode selector switch, dust- and vibration-protected; WITOS FleetView telematics system for efficient Fleet and Service Management
- SPECTIVE remote control: wired and radio remote control for the complete set-up procedure from the ground
- Head scraper at crusher discharge conveyor and fine grain conveyor
- Water spray system for reducing dust
- Water pump with pressure monitoring
- Well-thought-out lighting concept for safe plant operation
- Line coupling for interlinking with other KLEEMANN plants

OPTIONS

- SPECTIVE CONNECT for displaying all important machine information directly on the smartphone
- Hopper extension up to total hopper volume of 10.9 yd³
- Hopper filling aids for rearward loading: width of feed opening 12' 2"
- Diesel refuelling pump: hose system incl. pump, refuelling from a separate tank possible
- Camera system for monitoring the feeding unit and the crusher from the ground, available with additional radio extension
- Small radio remote control with the most important operating functions
- Crusher discharge conveyor belt cover (standard and extended) and fine grain conveyor
- Belt scales in crusher discharge conveyor and fine grain conveyor
- Secondary screening unit with oversize grain returning for production of defined final grain
- Swivelling return conveyor for operation in closed circuit or with swung-out return and side discharge of oversize grain
- Climate packages: heat and cold package
- Increased engine air intake for lower dust load
- Additional lockable storage container
- Premium lighting for expanded illumination of work areas



SPARE PARTS

Economic operation of the machine also requires the selection of the correct wear parts. The KLEEMANN original parts are optimally designed to meet the requirements of users and the machine and are characterised by a long service life, superior quality, high availability and simple assembly. Thanks to our application know-how and expertise and competent advice, we help our customers to find the optimal wear part for their individual application.

WEAR PARTS DEPENDING ON APPLICATION

Crusher cone	Versions: <input checked="" type="checkbox"/> Standard <input checked="" type="checkbox"/> Short Head
Bowl liner	Versions: <div> <input checked="" type="checkbox"/> Standard Fine <input checked="" type="checkbox"/> Standard Medium <input checked="" type="checkbox"/> Standard Coarse </div> <div> <input checked="" type="checkbox"/> Short Head Fine <input checked="" type="checkbox"/> Short Head Medium <input checked="" type="checkbox"/> Short Head Coarse </div> Two quality levels available: > XPERT with 18% manganese > XTRA with 20% manganese
	<div> <div> Standard Coarse (SC) 1" - 1.4" 7.04" - 7.55" </div> <div> Standard Medium (SM) 0.75" - 1.49" 5.4" - 6.2" </div> <div> Standard Fine (SF) 0.63" - 0.86" 4.56" - 5.15" </div> </div> <div> <div> Short Head Coarse (SHC) 0.51" - 0.98" 5.11" - 5.59" </div> <div> Short Head Medium (SHM) 0.39" - 0.87" 3.89" - 4.37" </div> <div> Short Head Fine (SHF) 0.39" - 0.75" 2.79" - 3.15" </div> </div>