



CMB BX650 & BX610 Tracked Cone Plant

Designed, Developed and Manufactured by CMB International





INTRODUCTION

In response to customer demand and pressure from regulatory bodies for improved access and safety while applying tighter emissions limits, the BX610 and BX650 tracked mobile cone crushing plant offers **GROUND LEVEL ACCESS** to all major operational and service features.

The unique engine and transmission arrangement bring routine maintenance within easy reach without ladders and walkways. Fuelling, operation and filter changes are all carried out at low level.

Crusher re-metalling and adjustments are achieved from a low-level walkway and further assisted by the feeder lift feature which clears the crusher while lifting the liners out.



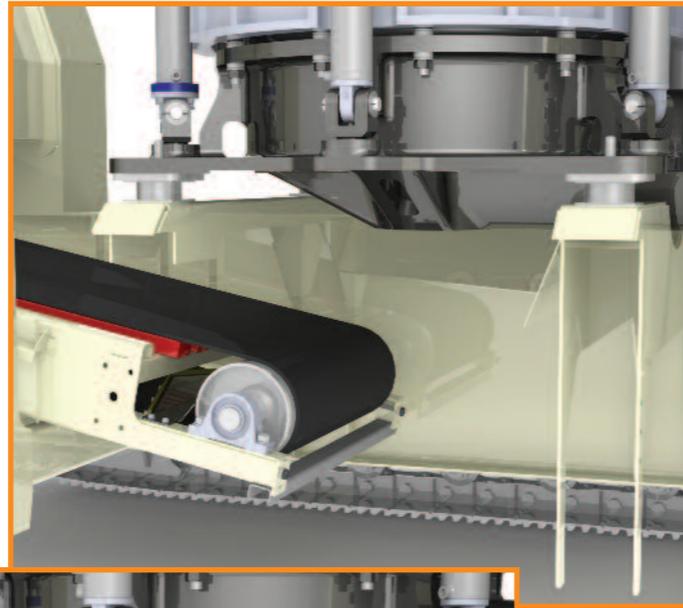
ALL OF OUR WORK IS FULLY GUARANTEED



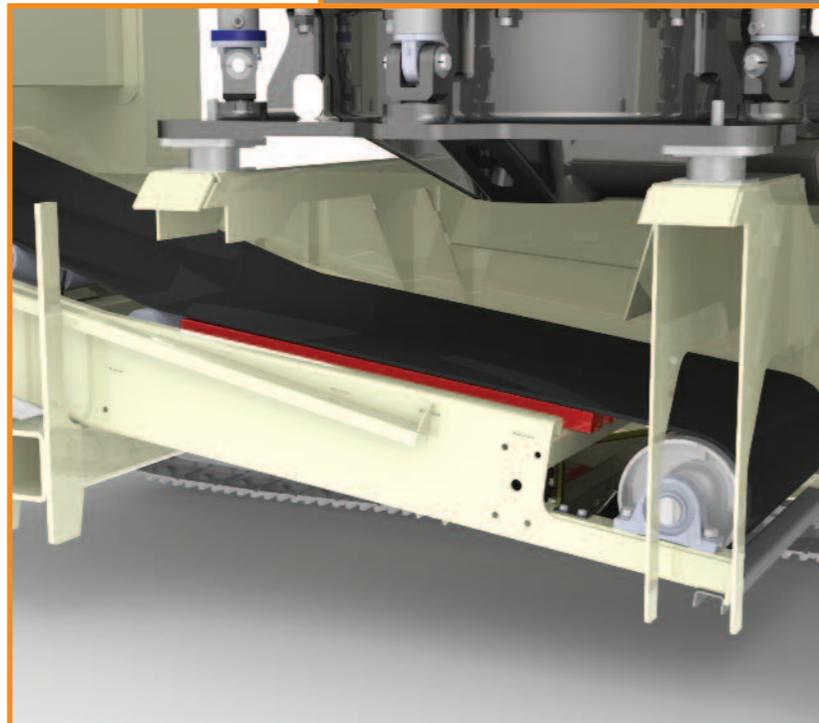
The BX610 and BX650 offer unprecedented ease of access for servicing. While most servicing can now be carried out from ground level, other features make both routine and major service simple.

A product conveyor eject feature gives easy access to the feedboot area for easy seal and bearing changes, also clearing access to the underside of the crusher chamber for inspection and cleaning out. Feedboot wearplates can be removed from outside the plant without the need to crawl down the belt or lift the crusher!

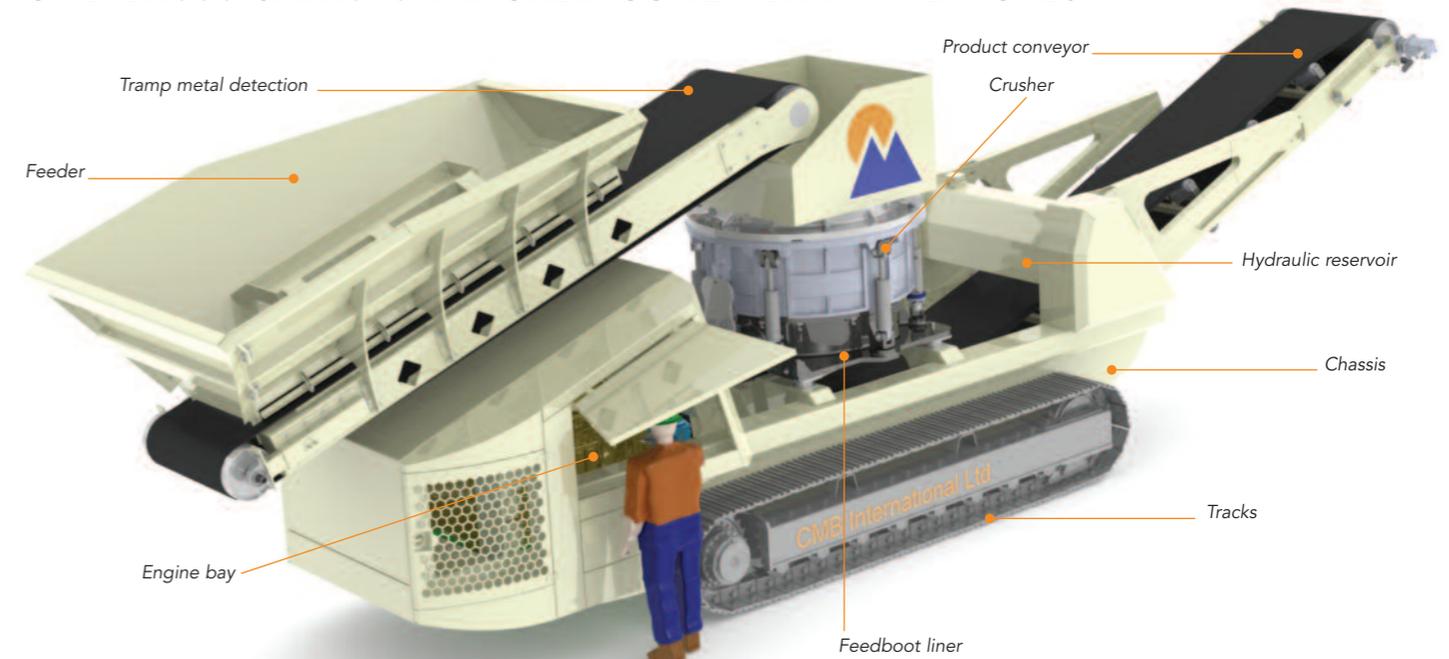
The feeder can be raised to allow major access to the engine bay, and will also discharge the hopper contents if it is not possible to run-out before transport.



Representative images - some mechanical parts omitted for clarity.



CMB BX650 & BX610 TRACKED CONE PLANT - FEATURES



TECHNICAL SPECIFICATION

Chassis	Fabricated steel
Tracks	Bolt-on, 3 point attachment. Hydraulic propulsion, 400mm Grouser tracks (BX650) 500mm Grouser tracks (BX610)
Feeder	1000mm belt (1200mm belt BX610), driven by hydraulic motor/gearbox. Large capacity hopper with replaceable liners. Feeder can be raised hydraulically to enable Manganese change and engine removal.
Product conveyor	One piece fabricated structure. 1000mm belt (1200mm belt BX610). Hydraulic direct drive to head drum. Flat impact bed, troughing by replaceable rollers.
Crusher adjustment	Accessible from low-level walkways
Feedboot liners	Replaceable from outside chassis
Tramp metal detection	Magnetic detector on feed belt
Hydraulic reservoir	Drain and refill from ground level. Full flow filtration.



TECHNICAL SPECIFICATION

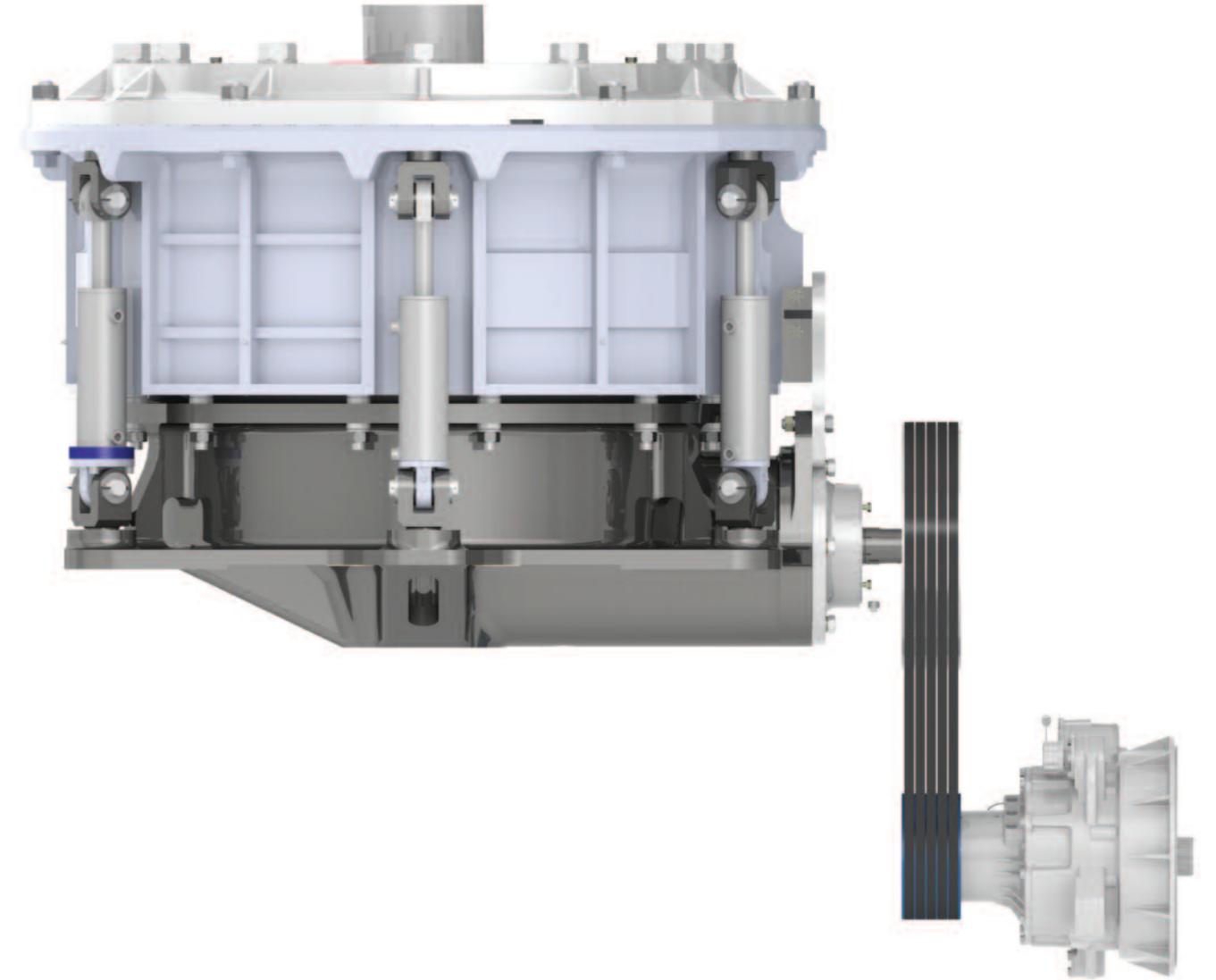
Crusher:	BX650 – RS185 cone crusher BX610 – RS225 cone crusher
Power train:	
Engine	CAT C9 Tier4i (BX650) CAT C13 Tier4i (BX610) IOPU mounted on removable subframe carrying clutch and hydraulic pumps. Scania alternatives available. Non-regulated engines available for areas where low-Sulfur fuel is not available.
Main PTO	PT Tech dry plate clutch, hydraulically actuated. Vee-belt crusher drive
Aux PTO	Engine auxiliary pto drives
Engine access	General maintenance access by side doors. Sump and head removable in situ, full assembly removable, Clutch and hydraulic pumps removable in situ. All general maintenance carried out at ground level.
Warranty	Engine, radiator and aftertreatment all certified CAT/Scania original components.
Refuelling	Ground level access.
Control system:	
Operation	Custom built electronic control system
Engine control	CAN based system integrating plant and engine control
Remote control	Featuring tracking, plant operation and remote stop
Hydraulic system:	The main system uses an optimised load sensing system. This permits fully proportional steering while tracking and variable speed control of the feeder and product conveyor. Active software will monitor the oil temperature and engage a rapid pre-heat of the hydraulic oil if low temperature could cause cavitation of the main pumps.



The BX650 and BX610 use the reliable PT-Tech dry plate clutch to drive the crushing chambers via multiple vee-belt.

The unique engine location below the feeder allows low-level access to the engine/transmission system and greatly reduces the size and weight of the entire plant.

The RS185, derived from the earlier RS150, and the new RS225 chambers offer crushing reliability and high throughput with infrequent replacement of liners.





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