

Atlas Copco Surface drill rigs

CM 765 and CM 785



Straightforward design, ground-breaking performance

Hole Diameter: CM 765 92–152 mm (3 ⁹/₁₆–6")
CM 785 110–165mm (4 ⁵/₁₆–6 ½")

Atlas Copco


Combining productivity and cost efficiency

The new CM 765 and CM 785 DTH crawlers reflect the straightforward design of the drill rigs in Atlas Copco's 700 series. The rigs combine well-tested features and components common to Atlas Copco's ROC crawler range.

Modifications have been made to further improve drilling capacity, hole quality, and overall cost efficiency. The CM 765 and CM 785 DTH crawlers maximize productivity by drilling high-quality holes at a high penetration rate with optimum fuel economy, long accessory life and low maintenance costs. The CM 765 and CM 785 DTH crawlers are built for maximum profitability.

Advantages of the CM 765 and CM 785:

- A highly-advanced, dependable feed system optimizes rock drilling performance.
- Productive drilling, even in the most challenging rock conditions.
- A reliable, maintenance-friendly hydraulic control system.



The powerful rotary head provides sufficient torque, even in the toughest rock conditions. This reduces the risk of jamming, leading to high productivity.

A cylinder-driven, aluminium feed system.

Tube breaking directly by the rotary head with the help of low-torque Z threads reduces wear on the pipes since there is no mechanical hard grip when breaking the joints.

Variable cooling fans optimize horse power draw and minimize fuel consumption and ambient noise.

An adjustable air flow switch allows the operator to adjust the flushing air volume as required from the cabin to improve hole quality, especially when collaring in poor rock conditions.

Spacious, operator cabin certified by FOPS and ROPS.

Load sense-activated engine RPM control (auto throttle) helps save energy and reduce noise.

Optimal power for maximum profitability

The CM 765 and CM 785 DTH crawlers are equipped with a cylinder-driven aluminium feed system that provides smooth feeding and contributes to a high penetration rate and long accessory life. The system secures continuous contact between the drill bit and fresh rock to optimize the performance of the rock drill. The rigs are also equipped with an adjustable air flow switch that enables the operator to regulate the flushing air volume as required from within the cabin to help maintain hole quality, particularly when collaring in poor rock conditions.



Flexibility and mobility in focus

The CM 765 and CM 785 DTH crawlers have excellent terrain manoeuvrability. The well-balanced and sturdy super-structure with 432mm (17 inches) of ground clearance and full-length rock guards enable the rigs to drill in rough, highly-demanding terrain. Sufficient air and high torque allow the rig to cope with a wide range of rock conditions.



Ease of maintenance

To minimize and simplify maintenance, the number of hoses and valves on the feed system has been reduced to a minimum, and the breakout table has been built in a single piece. Simplified electrical system and pilot control hydraulics are easy to maintain. The feed profile itself is sturdy and highly resistant to bending, with sliding surfaces protected by easily-exchangeable steel caps that virtually eliminate feed profile wear. The aluminium cradle is designed for easy retightening to compensate for sliding pad wear, ensuring smooth guiding at all times. Service points are within easy reach along the perimeter.



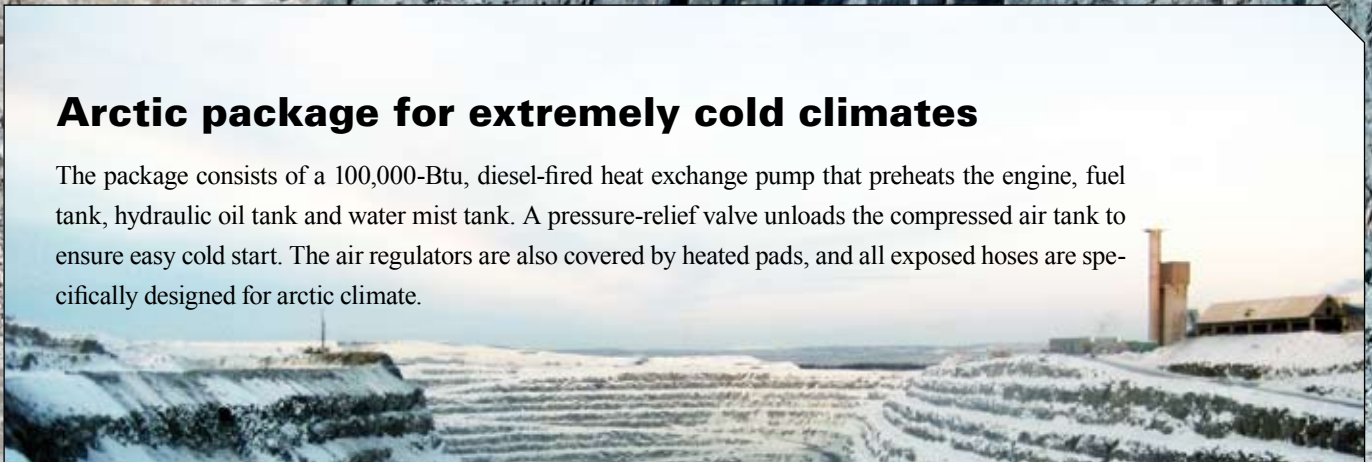
Optimum fuel economy

Both models are equipped with variable-speed cooling fan controls to optimize horse power draw and fuel economy while minimizing the ambient noise level. Load-sensing hydraulics and engine auto-throttle help to save energy and minimize fuel consumption.



Arctic package for extremely cold climates

The package consists of a 100,000-Btu, diesel-fired heat exchange pump that preheats the engine, fuel tank, hydraulic oil tank and water mist tank. A pressure-relief valve unloads the compressed air tank to ensure easy cold start. The air regulators are also covered by heated pads, and all exposed hoses are specifically designed for arctic climate.



A selection of options on the CM 765 and CM 785

For a more comprehensive options list, please contact your local Atlas Copco Customer Center.



Alignment control

The 3D hole inclination instrument located in the operator cabin helps fast and accurate alignment control at collaring. It can also be equipped with drill depth and speed meter.

Central lubrication

The central lubrication system spreads measured amount of grease evenly around the pin and bushing to ensure joints are effectively lubricated. The system helps cutting maintenance costs and extending the life of components.

Lifting aid

The feed-mounted service winch provides superior lifting capacity for loading drill tubes into the rod handling system for extended hole depth. The control is conveniently located in front of the main frame with an emergency stop switch for safety.

Stable hole walls

The water mist system is the ideal tool for stabilizing hole walls when drilling in poor rock conditions. The system includes a 300-liter (80-gallon) water tank, on/off switch and volume control valve located in the cabin.

Quick facts CM 765 and CM 785

Main application area:	<input type="checkbox"/> DIMENSION STONE INDUSTRY <input checked="" type="checkbox"/> LIMESTONE QUARRIES	<input type="checkbox"/> CONSTRUCTION <input type="checkbox"/> SELECTIVE MINING	<input checked="" type="checkbox"/> AGGREGATE QUARRIES <input checked="" type="checkbox"/> SURFACE MINING
Drilling method:	<input type="checkbox"/> TOPHAMMER	<input checked="" type="checkbox"/> DOWN-THE-HOLE	<input type="checkbox"/> COPROD
Hammer size:	TD 35 (only CM 765) COP 44	COP 54GE	COP 64G (only CM 785)
Tube size:	3" (only CM 765)	3 1/2"	4"
Hole diameter:			
Maximum hole depth:			
Engine Power: rating at 1800 rpm			
Available air flow FAD:			

