

Atlas Copco Surface Drill Rigs

FlexiROC D50 and D55



Hole diameter 92-152 mm (3⁵/₈-6")

Sustainable Productivity

Atlas Copco

Efficient versatility in quarries and mines

Atlas Copco FlexiROC D50/D55 is equally at home in the quarry or the mine with its solid combination of versatility and efficiency. This is a go-anywhere down-the-hole drilling rig that will help you achieve the lowest cost per cubic meter. With a FlexiROC, you get the optimum combination of air flow and pressure for the highest drilling economy and efficiency.

This crawler has a low center of gravity and high ground clearance for working in the toughest environments. You're looking for efficiency and productivity in a variety of applications; the FlexiROC D50/D55 is a reliable, no compromise workhorse that delivers.

Based on proven knowledge in two fields

Whether your application is in quarries or open pit mines, the FlexiROC D50/D55 will deliver straight, smooth holes with plenty of air to keep the hole clean for easy charging. A highly efficient use of the DTH hammer and compressor combination is based on long experience and know-how in the toughest conditions. Atlas Copco is a world leader in both air compressors and mining equipment.

More time on the job means higher productivity

The FlexiROC D50/D55 belongs to a new generation of rigs with longer service intervals, fewer parts and a high degree of service and parts commonality with other Atlas Copco products. That means ease of service and more uptime.

Uniform Feeding

Atlas Copco's FlexiROC DTH family is the first in DTH drilling to use cylinder driven feeding, ensuring a smoother and more uniform feeding regardless of rock condition. In addition, the new aluminum feed profile ensures harmful vibrations are reduced to a minimum. You get optimum transmission of each percussive blow to fresh rock, meaning more productive drilling. No more wasted air!

Peace of mind

Even the best equipment needs to be cared for. To maintain the superior performance Atlas Copco rigs are known for, our parts and services network is never far away with genuine Atlas Copco parts and service agreements designed to ensure maximum availability and productivity. Preventative maintenance and service can protect your profitability against unplanned costs from downtime and repairs. Our ROC Care and ROC Care E service agreements provide for regularly-scheduled service, optimized rig performance, inspector protocols, extended warranties, discounts, and even satellite monitoring. We provide the security and peace of mind, so you can concentrate on your profit and growth.

Main benefits

- Go-anywhere low center of gravity and high ground clearance
- Highly efficient in quarrying and mining
- More uptime due to high degree of service and parts commonality





The new cylinder driven feed ensures smoother and uniform feeding regardless of rock conditions.

The cabin is ROPS and FOPS approved and with a protective plate under the cabin. Superior visibility during collaring and tube handling.

Atlas Copco compressors perform at peak efficiency and can be combined with powerpack updates. Our sustainable solutions are designed to meet the latest environmental solutions.

Quick facts

Main Application:

Limestone quarries
Construction
Aggregate quarries
Surface mining

Drilling Method:

Down the hole

DTH Hammer:

TD35.2
COP 44 GOLD
COP 54 GOLD

Drill Steel:

76/89/102 mm

Hole Diameter:

92-152 mm (3 5/8" – 6)

Maximum Hole Depth:

45 m (148')

Engine Power:

FlexiROC D50: Rating at 1800 rpm
287 kW (385 HP)
FlexiROC D55: Rating at 1800 rpm
328 kW (440 HP)

Available air flow (FAD):

FlexiROC D50: 295 l/s (625 cfm)
FlexiROC D55: 354 l/s (750 cfm)

Selection of options

Stabilize the hole walls

The water mist system is a perfect tool to stabilize the hole walls when drilling in bad rock formation. It consists of a 225 litres (32 US Gal) pressurized water tank connected directly to the flushing air.

GPS Compass

The GPS Compass aiming device uses the GPS satellite system and enables you to lock the blast direction for every hole in the blast. GPS compass adds a new dimension to the extensive automation already available on FlexiROC D50 & D55.

Noise and Vibrations levels – PowerROC D55	
A-weighted sound power level in decibel (ref. 1 pw). Single value declaration	128
A-weighted sound pressure level at work station in decibel (ref. 20 mPa). Double value declaration	NA
Accuracy, KpA, in decibel	NA
A-weighted sound pressure level at 1 m distance in decibel (ref. 20 mPa). Double value declaration	105
Accuracy, KpA, in decibel	6
Weighted whole body vibration level (m/s ²) (Double value declaration)	NA
Inaccuracy (m/s ²)	NA