

Atlas Copco Hydraulic rock drills

COP 2238



For optimised productivity

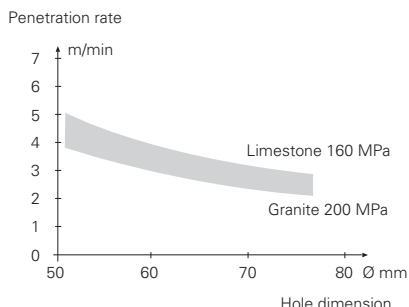
22 kW hydraulic rock drill for the hole range 51–76 mm

Atlas Copco



This is optimised productivity

Laboratory test results



Good rock-drilling economy requires highly productive drills. Atlas Copco's superb COP 2238 rock drill paves the way for a whole new cost scenario. World-leading technology, a unique dual-damping system and high-impact power ensures performance and economy in a class of its own. We call this optimised productivity.

High penetration rate – with best drill steel economy

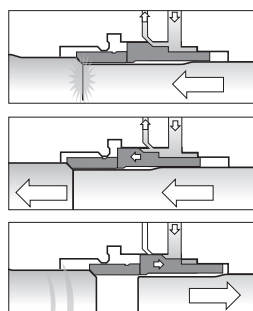
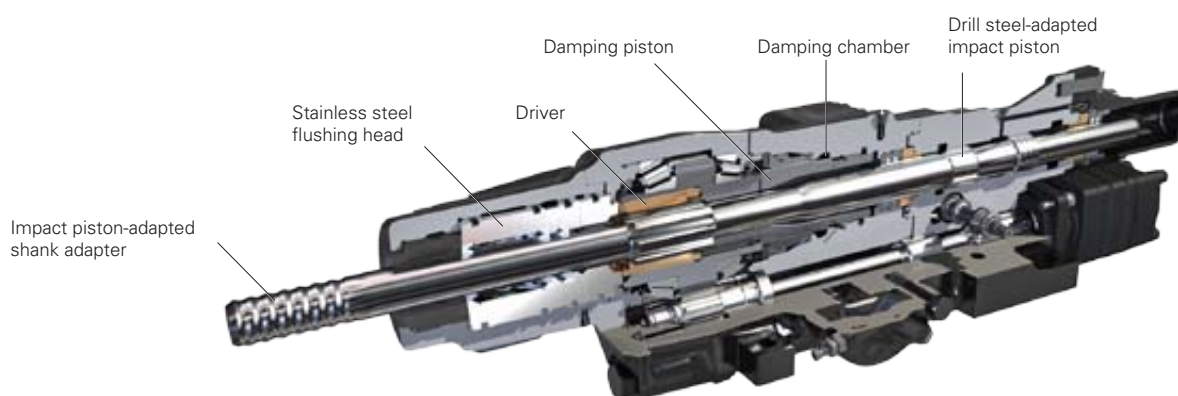
Atlas Copco's world famous dual-damping technology permits optimal utilisation of the drill's 22 kW impact power. The damping system ensures that the drill bit is pressed into continuous contact with the rock, so that the extension rods can be retightened between each impact. This means that the COP 2238 can operate at a higher impact frequency. The result: continuous, high penetration rate – even for long-hole drilling. The dual-damping system also efficiently absorbs the reflected shock wave from each impact on the rock. This spares both drill string and drill, for reduced wear and low operating costs. The piston's long slim form also enhances the result. Each impact generates an optimal shock wave that ensures high penetration rate – without damaging the drill steel.

Reliability means productivity

The COP 2238 is a further development of the COP 1838, the market's highest selling rock drill. The drill's precise, well proven design ensures unique operational reliability and availability. You can count on efficient rock drilling – right up to the next planned service. Put another way: the COP 2238 gives you many more drill metres between services.

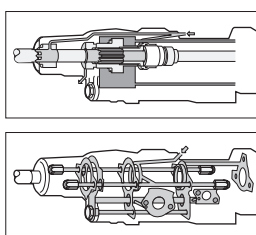
Cost-efficient service

The drill's service-friendly construction minimises downtime and servicing costs. Components are easily checked and much of the servicing can be conducted at the drill site – no need to dismantle it from the drill rig. The COP 2238 is part of the same family as the COP 1838. Consequently, it has many components in common with other rock drills. This simplifies maintenance and ensures cost-efficient stocking of spares.



Efficient reflex damping

The dual-damping system's damping piston is in floating suspension. This ensures that the drill bit is in contact with the rock throughout the entire impact cycle, for efficient rock drilling and to maintain tension in the drill steel extension rods. The dual-damping system effectively absorbs the energy generated by the shock waves reflected from the rock, thereby protecting the drill.



Pressurisation keeps dirt out

Although subject to severe stress in a tough underground environment, the COP 2238 offers impressively low operating costs. The drill is kept in perfect trim by a compressed air lubrication system that lubricates the parting line and other vital elements during drilling. This overpressure keeps dirt out, while the oil ensures that friction between sensitive components is minimal.

COP 2238

Impact power, max.	22 kW
Hydraulic pressure, max.	250 bar
Impact rate, max.	73 Hz
Lubricating air (at the drill), max.	6 bar
Flushing water	5,5–25 bar
Flushing air, max.	10 bar
Weight, without adapter	170 kg
Length, without adapter	1008 mm
Width, without connectors	251 mm
Height above feed sled	223 mm
Height above drill centre	88 mm

Adapters

Male adapters, Ø 38 mm

Thread type R32, length 435 mm, Ordering No.	403-09101,00
Thread type R38, length 435 mm, Ordering No.	404-09101,00
Thread type T38, length 435 mm, Ordering No.	435-09101,00
Thread type R32, length 525 mm, Ordering No.	403-09103,00*
Thread type T38, length 525 mm, Ordering No.	404-09103,01*

*) Designed for underground bolt hole and long hole drilling.

Rotation motors

Type	RPM-range	Torque max.	Working pressure max.	Oil consumption max.
02 (OMS 80)	0–460 rpm	430 Nm	175 bar	80 l/min
05 (OMS 100)	0–340 rpm	545 Nm	175 bar	75 l/min
06 (OMS 125)	0–275 rpm	700 Nm	175 bar	75 l/min
07 (OMS 160)	0–210 rpm	740 Nm	150 bar	75 l/min



Service-kit for better maintenance

The COP 2238 is easy to maintain. We also offer special kits, adapted for different levels of service, to make life even easier – and ensure that maintenance is rapid and trouble-free. These kits contain everything normally required.

The optimal combination

To get the very best out of a COP 2238, it should be mounted on one of Atlas Copco's compact or mid-size high-performance rigs. The combination of operational reliability and extreme production capacity offers total economy that is hard to beat. Call us, and find out about the optimal drilling solution for your needs!