

Atlas Copco Pneumatic Surface Drill Rig **ROC[®] 442PC**



Tophammer Crawler Rig

Hole range 41 – 115 mm (1 5/8" – 4 1/2")

Atlas Copco

ROC 442PC – the Workmate

A topammer crawler rig for 41–115 mm (1 5/8"–4 1/2") holes.

PROVEN RELIABILITY

The ROC 442PC is designed to meet the toughest challenges, day after day. It comes in three different versions, with different topammer drills:

- The legendary high torque chain rotated BBE 57 for drilling blast holes ranging from 64 to 115 mm (2 1/2"-4 1/2") with T38 and T45 extension rods. It is especially well suited for tough rock conditions since it delivers a torque up to 785 Nm (580 lbf.ft).
- The modern silenced gear type rotated rock drill COP 131EB for drilling blast holes ranging from 48 to 102 mm (1 7/8"-4") with R32, T38 and T45 extension rods.
- The rifle bar rotated and less air demanding BBC 120F for drilling blast holes ranging from 48 to 76 mm (1 7/8"-3") with R32 and T38 extension rods.

At single pass drilling with 10' or 12' drill rods a minimum bit dimension of 41 mm (2 5/8") may be used with a R32 rod. All rock drills offer proven reliability, easy servicing, and lowest possible air consumption.



ROC 442PC with dust collector and front mounted control panel.

EFFICIENT TRAMMING

When tramming, the ROC 442PC won't let you down either. The upgraded hydraulic system has improved the tramming. An increased traction force and speed gives decreased oil temperature and a low working temperature. The powerful hydraulic two-speed motors develop a tractive

force of 45 kN (9664 lbf) for comfortable tramming or climbing in rough terrain. Traction and boom movements are driven by a central hydraulic system that converts pneumatic energy with high efficiency. There is also a hydraulic oil cooler that improves efficiency still further by keeping the oil temperature low.



The efficient BBE57, COP 131EB and BBC 120F rock drills

SIMPLICITY IN OPERATION AND MAINTENANCE

The ROC 442PC is very simple and comfortable to operate. Trimming and positioning controls are located on an ergonomic swing arm panel, and drilling is controlled directly at the feed. The boom system and the clean wagon frame give you optimum stability under all conditions. The straightforward design gives easy access to all components for quick and easy maintenance. And all hoses are of course clearly marked at both ends for easy trouble shooting.

OPTIONS FOR AN EVEN HIGHER EFFICIENCY

The ROC 442PC can be equipped with a dust collector, DCT 140E, with shock pulsation cleaning for increased service life. There is a front swing arm for horizontal drilling, enabling you to drill holes – vertical or horizontal. A rod rack reduces handling time and gives you higher productivity. And an inclination instrument ensures perfectly aligned blastholes. Everything to increase your efficiency even more.

WITH THE QUALITY THAT WE'RE FAMOUS FOR

High quality components and smart engineering are the basis for the ROC 442PC. The high-efficiency hydraulic system, the sturdy boom and feed, and the reliable rock drills are typical examples of the quality Atlas Copco has become famous for. They make the ROC 442PC a workmate you can rely on, day after day, year after year.

MAIN APPLICATIONS:

- Construction
- Quarrying

COVERAGE AREA:

- Single boom 3 m²



Dust collector for better working environment



ROC 442PC is equipped with oil cooler as standard



Foam flushing system (optional)

Technical Data ROC 442PC-00



Dimensions

Weight kg	5000
Length mm	6350
Width mm	2300
Height mm	1500
Ground clearance mm	350
Ground pressure N/mm	0.054

Tramming

Traction speed, km/h	2.5
Traction force, kN	45
Track oscillation	±12°
Hill climbing ability	20°

Feed

Feed force, kN	17
Feed rate, m/s	0.4
Travel length, mm	4350
Total length, mm	6350
Feed swing	± 30°

Rock drills

BBC 120F	
Hole range, mm	48-76
BBE-57	
Hole range, mm	64-115
COP 131	
Hole range, mm	48-89
Smallest hole dimension at single pass drilling with an R32 extension rod, mm	41

Dust collectors

DCT 140E

Standard equipment

- Wire mesh secure compressor hose air inlet
- Pneumatic hydraulic power pack
- Hydraulic powered two speed traction motors
- 250 mm wide track chains with cleaning holes
- Hydraulic track oscillation
- Towing hook
- 7 bar air line and oil lubrication system
- Air line water separator
- Single boom system
- Pneumatic operated chain feed for max 3660 mm (12ft) drill rods
- Manual drill support
- Feed mounted drilling control panel
- Swing arm control panel for tramming and boom positioning
- Extra air outlet for cleaning or running air tools (e.g. grinding equipment)
- Mounting bracket for optional dust collector
- Tropical hydraulic oil ISO VG 68 (temp >40 deg.)

Optional equipment

- Hydraudraulic support leg
- Dust collector DCT 140 E with rubber dust outlet - supplied with rubber dust collector hood or rubber disc
- Rod rack
- Mechanical hole inclination instrument, type ROC ANGIE
- Front swing arm with drilling controls
- Water mist flushing system
- CEN-set, gen.set, 2 x work lights, water level, emergency stops, horn document box
- Work light set, including generator set, two head lights (incl in CE-kit)
- Compressor hose set, Φ 51 x 20 m

Total air consumption, l/s at 6 bar hammer operating pressure

ROC 442PC-00 with rock drill	BBC 120F	BBE 57	COP 131EB
Basic unit	240-270	320-330	330-370
Basic unit + DCT	305-335	385-395	395-435
Basic unit + DCT + CE kit	340-370	420-370	430-470

Air for hole cleaning varies with the extension rod diameter
 - Lower value for smallest rod diameter
 - Higher value for biggest rod diameter

