



Secoroc RC 50 specifications		
Model	Secoroc RC 50 for grade control	Secoroc RC 50 for exploration drilling
Product number	52347630	52292273
Product code	9705-52-63-00	9705-52-67-00
Outside diameter, mm (in)	130 (5.13)	130 (5.13)
Length without bit, mm (in)	1152 (45.4)	1152 (45.4)
Length with bit extended, mm (in)	1276 (50.2)	1276 (50.2)
Length with bit retracted, mm (in)	1232 (48.5)	1232 (48.5)
Weight without bit, kgs (lb)	72 (158)	72 (158)
Spanner flat on top sub, mm (in)	102 (4)	102 (4)
Minimum bit size, mm (in)	140 (5 1/2)	140 (5 1/2)
Maximum bit size, mm (in)	152 (6)	152 (6)
Cylinder bore, mm (in)	113,7 (4.48)	113,7 (4.48)
Piston weight, kgs (lb)	17 (38)	17 (38)
Stroke length, mm (in)	64 (2,5)	64 (2,5)
Working pressure, bar (psi)	10-35 (145-500)	10-35 (145-500)
Make up torque, Nm (ft-lb)	6800 (5000)	6800 (5000)
Thread connection	4 1/2 inch Remet BOX	4 1/2 inch Remet BOX



Secoroc RC 50 bit assortment				
OD,mm	OD,in	Design	ProductNo.	Product code
For grade control (shallow holes and/or competent rock)				
140	5 1/2	Drop centre	90516448	1E0-5140-97-1011736,08-20
146	5 3/4	Drop centre	90516132	100-5146-97-7217, 08-20
152	6	Drop centre	90516133	100-5152-97-7217, 08-20
165*	6 1/2*	Drop centre	90516134	100-5165-97-7217, 08-20
For exploration drilling (allround design)				
136	5 3/8	Drop centre, extra flushing	90516434	10E-5136-97-7217,08-20
140	5 1/2	Drop centre, extra flushing	90516432	10E-5140-97-7217,08-20
146	5 3/4	Drop centre, extra flushing	90516433	10E-5146-97-7217,08-20
165*	6 1/2*	Drop centre, extra flushing	90516435	10E-5165-97-7217,08-20

*for setting casing

Secoroc RC 50 chuck sleeve assortment		
Sleeve OD, mm (in)	Product No.	Product code for bit
134 (5.28)	52291606	9705-00-63-34-078
137 (5.4)	52291614	9705-00-63-37-078
140 (5.52)	52348257	9705-00-63-40-078
144 (5.65)	52291622	9705-00-63-44-078
147 (5.77)	52348612	9705-00-63-47-078
150 (5.9)	52348620	9705-00-63-50-078
163 (6.4)	52343596	9705-00-63-63-078

Recommended clearance between bit and chuck sleeve OD is 2-3 mm.

Atlas Copco

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Secoroc Rock Drilling Tools Reverse Circulation - Secoroc RC 50



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Atlas Copco

Performance. Reliability. Support.

The Secoroc RC 50 raises the standard

The key criteria our customers wanted from our new Secoroc RC 50 reverse circulation drill were simplicity, performance and reliability. Our engineers responded by incorporating the Quantum Leap™ cycle into the RC hammer, creating a high frequency hammer with world class performance and reliability.

The Secoroc RC 50's high frequency enables it to perform well in all rock formations. The Quantum Leap™ air cycle maximizes efficiency and develops greater power for large or small compressor capacities. The air cycle utilizes a special poppet valve to drive air pressure to accelerate the piston to higher energy levels. Longevity and reliability are due to a larger piston-struck end, a heat-treated collection tube and the use of the Quantum Leap™ valve cycle.

Atlas Copco's reverse circulation hammers are specifically designed for both deep hole exploration drilling and in-pit grade control applications. Whether you are exploring potential sites or working an existing mine, you can be assured of high performance, exceptional reliability and dependable support.

High performance – high productivity

You can expect 15% to 20% *higher* penetration from the new Secoroc RC 50 series of hammers. Our proprietary Quantum Leap™ air cycle maximizes efficiency and develops greater power for any compressor capacity available. Easy service, a reliable design, exceptional service life and faster penetration rate settles for higher productivity.

Reliability you can trust

The Secoroc RC 50 raises the standard by which all others are measured. Our hammers are known for their long-term, low-maintenance endurance.

Best performance in all rock formations

The frequency (blow per minute) of the Secoroc RC 50 is as much as 34% higher than some competitors. This translates into faster drilling and outstanding performance in soft to medium formations. And what's more, the high frequency together with a high mass piston provides a high output of power, ensuring cutting edge performance in hard rock as well.

Dependable support

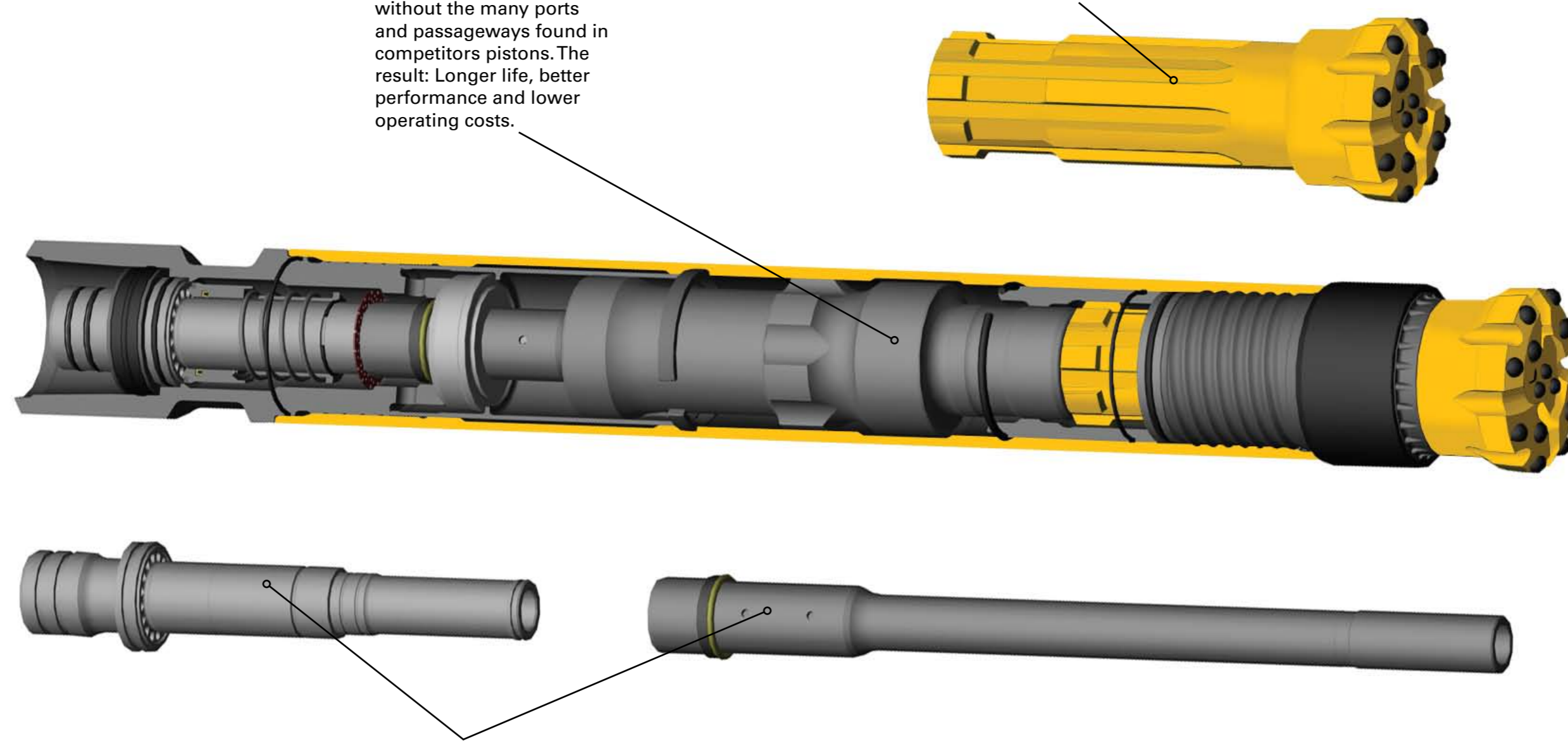
Our reputation for reliability and support is known throughout the industry. You will receive comprehensive equipment training and fast response to problems.

Durable non-ported piston

By utilizing the Quantum Leap™ air cycle, the Secoroc RC 50 is able to use a piston without the many ports and passageways found in competitors pistons. The result: Longer life, better performance and lower operating costs.

Atlas Copco Secoroc quality DTH RC bits

Maximize production while minimizing operating costs.



Easily serviced collector tube assembly

Our unique collector tube assembly is easier to service, thanks in part to the unique tube retention system. You don't have to disassemble the unit to replace collector tube assembly. The result? Minimum downtime and maximum time in the hole.

Atlas Copco reverse circulation rigs



ROC L8RC

The ROC L8 is a multipurpose open pit and quarry drill rig, and drills to a maximum of 54 m (177 ft). The ROC L8 handles pre-split drilling, production drilling and now also in-pit grade control when equipped with the RC kit, which includes a cyclone and a splitter box with a pneumatic vibrator.



Explorac 220RC

The Explorac 220 RC is a highly advanced RC rig and is operated by remote control. The Explorac 220 RC is a purposed built DTH rig with a rotary head made for extreme hammer drilling, and therefore ideal for reverse circulation drilling with hole depths up to 400 metres (1200 ft).



RD 10+

The Atlas Copco RD 10+ is a hydraulic tophed drive drill designed for reverse circulation drilling. The RD 10+ produces 100 000 lbs /45 380 kgs of pullback and 10 000 ft-lb/13 560 Nm of rotary head torque to ensure efficient drilling. The RD 10+ is designed to work in rugged environments.

For more information, contact your local Atlas Copco Customer Centre