

Secoroc Rock Drilling Tools

COP 66 DTH HAMMER

Taking blasthole drilling
to a new dimension

Atlas Copco



THE COP 66: FASTER, LIGHTER, SHORTER

– and built on success

The new COP 66 and its new platform design represent real innovation in down-the-hole drilling. You can also see and feel the difference yourself: Shorter, lighter, no exhaust tube, and a solid bit with no center flushing hole. But the most surprising difference - the hammer is even easier to operate. But what do these changes mean for you and your business?



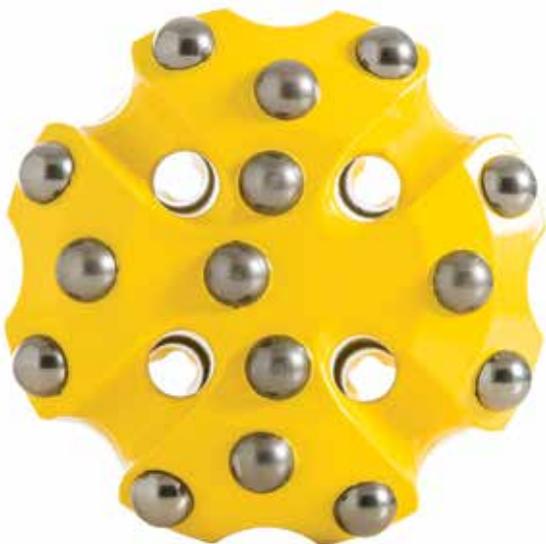
“It is very easy to maintain and the feedback we had from the guys on the ground, and what we have picked up, is that the penetration rate is of great importance to any drilling contractor. The penetration rate went up from 18 to 23 meters per hour, 20%! That is a lot for us.” Pierre Lang, CEO, NA-SERA, South Africa

EASIER AND FASTER

With COP 66, penetration is 15% faster than its predecessor, COP 64 Gold. But the gains don't stop there: COP 66 is more easily adjustable for feed force and rotation, making life easier for its operator and business more productive.

HIGHER RELIABILITY

With its unique new design and leaner air consumption, COP 66 doesn't just drill faster. Less wear and tear on the hammer means you can drill longer too. With fewer parts, a 30% shorter and lighter hammer, and a considerably longer service lifespan, it's more reliable and economical to run than ever.



"It's a smaller hammer. User friendly. Easy handling, not that heavy. Less spare parts, easier to assembly and service compared to COP 64 Gold. You can carry it alone and don't need help with it. It's amazing." "When can I buy it?"

Francious Booyens, Product Manager, NA-SERA, South Africa

COP 66 vs **COP 64 Gold**

A WORTHY SUCCESSOR

Since 2002, the COP 64 Gold hammer has earned a reputation for speed, reliability and productivity. It's been a firm favourite among drilling and blasting companies for over a decade. Just like your business, we're always searching for something new, and now we're proud to introduce COP 66. It's faster. It's lighter. It's shorter. It's better in every way.

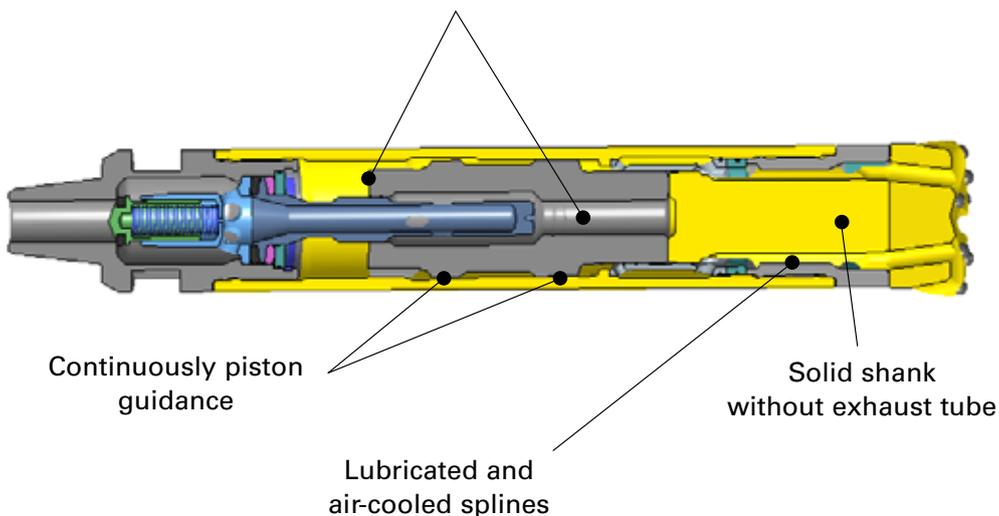


BUILT FOR A NEW ERA OF DRILLING

COP 66 is designed for a new generation of drill rigs — Atlas Copco SmartROC and FlexiROC. They combine the latest drilling technology with air packages — up to 30 bar. There's simply no better combination. In cooperation with our customers in the blast hole segment around the world, COP 66 has been tested thoroughly both in the lab and at mine sites, where it has drilled approx. 1,000,000 meters. The results have been spectacular. More drilling, less downtime, resulting in a drastic reduction in drill cost per meter to a level that your finance team will love, just as much as your operators.



Volumes adjusted to maximize power output from
ROC D65 Rig, 470 l/s at 30bar



COP 66	
Specifications	
Prod. No. 89010407	
Diameter:	146 mm (5.75 in)
Weight:	69,1 kg (152 lb)
Length:	896 mm (35.3 in)
Wrench flat on back head:	102 mm (4 in)
Backhead thread:	3 1/2" API Reg Pin
Piston weight:	17,4 kg (38.4 lb)
Impact rate:	2160 bpm at 25 bar (363 psi) 2220 bpm at 30 bar (435 psi)
Air consumption:	370 l/s at 25 bar (784 cfm at 363 psi) 470 l/s at 30 bar (996 cfm at 435 psi)

COP 64 GOLD	
Specifications	
Prod. No. 89000960	
Diameter:	146 mm (5.75 in)
Weight:	109,0 kg (240 lb)
Length:	1258 mm (49.5 in)
Wrench flat on back head:	102 mm (4 in)
Backhead thread:	3 1/2" API Reg Pin
Piston weight:	20,5 kg (45.2 lb)
Impact rate:	1810 bpm at 25 bar (363 psi) 2020 bpm at 30 bar (435 psi)
Air consumption:	509 l/s at 25 bar (1079 cfm at 363 psi) 632 l/s at 30 bar (1339 cfm at 435 psi)

DRILLING PARAMETERS	
Working pressure:	20–30 bar
Rotation speed:	15–70 RPM
Feed force:	15–20 kN
Rec. bit size:	165–178 mm (6.5 - 7 in)
Bit shank:	COP 66

DRILLING PARAMETERS	
Working pressure:	20–30 bar
Rotation speed:	15–60 RPM
Feed force:	15–20 kN
Rec. bit size:	165–178 mm (6.5 - 7 in)
Bit shank:	QL 60

COP 66 DRILL BITS				BUTTON CONFIGURATION		
Bit design	Size mm (in)	Prod. No.	Product code	Gauge	Front	Remark
				Shape / qty x size	Shape / qty x size	
Flat front	165 mm (6 1/2)	90003717	100-5165-01-1E1B,08-20	Spherical 8x19 mm	Spherical / 6x19 mm	
Flat front	171 mm (6 3/4)	90003716	100-5171-01-1E1B,08-20	Spherical 8x19 mm	Spherical / 7x19 mm	
Concave	165 mm (6 1/2)	90029082	100-5165-01-0E11,08-20	Spherical 10x16 mm	Spherical / 10x16 mm	
Convex spherical	165 mm (6 1/2)	90003715	100-5165-01-2E1B,08-20	Spherical 8x19 mm	Spherical / 7x19 mm	
Convex spherical	171 mm (6 3/4)	90003712	100-5171-01-2E1B,08-20	Spherical 8x19 mm	Spherical / 8x19 mm	
Convex spherical	171 mm (6 3/4)	90029163	100-5171-01-2E1N,08-20	Spherical 10x19 mm	Spherical / 11x19 mm	
Convex spherical	203 mm (8)	90029134	10B-5203-01-2E1B,08-20	Spherical 10x19 mm	Spherical / 12x19 mm	with back reaming buttons
Convex ballistic	165 mm (6 1/2)	90003714	100-5165-01-2E4B,08-20	Spherical 8x19 mm	Semi ballistic / 7x19 mm	
Convex ballistic	171 mm (6 3/4)	90003713	100-5171-01-2E4B,08-20	Spherical 8x19 mm	Semi ballistic / 8x19 mm	
Convex X-tra bit	165 mm (6 1/2)	90029011	100-5165-01-2E1B,08-B1	Spherical 8x19 mm	Spherical / 6x19 mm	X-tra bit PCD
Convex X-tra bit	171 mm (6 3/4)	90029012	100-5171-01-2E1B,08-B1	Spherical 8x19 mm	Spherical / 7x19 mm	X-tra bit PCD

PROVEN SERVICEABILITY

Drilling is an unforgiving business — and whenever a hammer breaks down you need it up and running again as soon as possible. COP 66 isn't just designed to be reliable — it's also designed for quick and simple servicing. Innovations like the E-kit allow COP 66 to be rebuilt twice over its lifetime in normal abrasive conditions, as opposed to just once with COP 64 Gold.



COP 66 AND SmartROC D65 – THE PERFECT MATCH

COP 66 has been designed to work perfectly with the air package of the Atlas Copco SmartROC D65 drill rig, and is compatible with other drill rig models. The COP 66 and SmartROC D65 rig combination delivers optimal performance and the lowest total cost per drilled meter on the market.

HIGH ALTITUDE - HIGHER PERFORMANCE

Because the COP 66 hammer uses less air volume than the COP 64 Gold, it maintains a higher pressure at high altitude, which means higher drilling performance.



"The operators told me that they like it because it's not that heavy and it's short. It's easy to handle and more user friendly to service (disassemble and clean). From the production side, the penetration rate is around 15% faster!" "The operators wonder when we are switching from COP 64 Gold to COP 66!"

Peter Finter, Owner, Venter, South Africa



Sustainable Productivity

We stand by our responsibilities towards our customers,
towards the environment and the people around us.
We make performance stand a test of time.
This is what we call - Sustainable Productivity.

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