

Secoroc COP 54 Gold Express

– the fast track to increased productivity



Two key trends have driven the development of Secoroc COP 54 Gold Express: ever-more powerful compressors – min 450 l/s (950 cfm) and 25 bar (360 PSI) and the demand for deeper holes in DTH drilling. For example, in Sweden today, geothermal wells average 140 m (460 ft).

Our COP 54 Gold Express hammer comes well equipped to handle the harsh realities of drilling 130–152 mm (5 1/8"–6") holes. Made of extremely wear-resistant steel, the hammer cylinder is stronger – providing greater impact strength in addition to higher wear and temperature resistance. COP 54 Gold Express also features a new piston design for more efficient energy transmission as well as a stronger control tube with suspension consisting of a new steel disc compression rings and a new lower buffer ring.

12-spline QL50 bit shank are standard and helps to keep spline wear to a minimum.

A real productivity booster

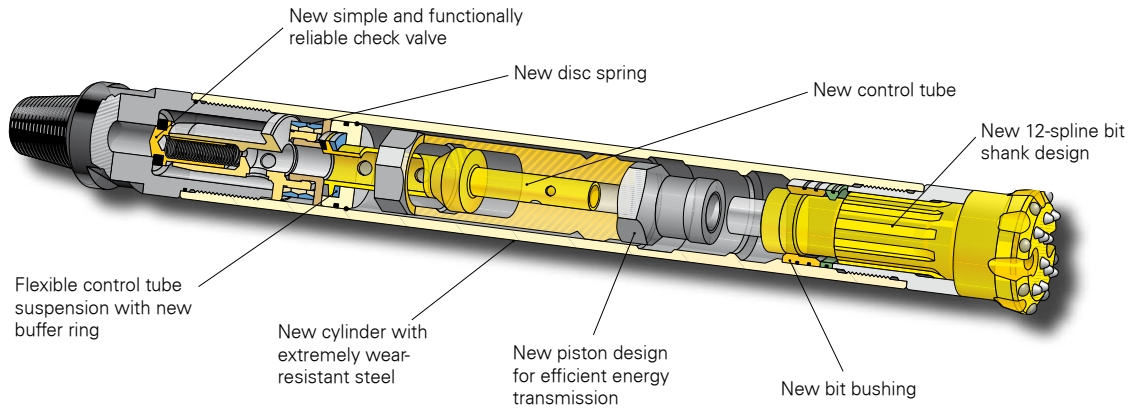
Thanks to its new ingenious piston design COP 54 Gold Express delivers a truly outstanding deep hole capacity, for example large influx of water is no problem at all. Furthermore, the hammer starts up real easy in deep holes.

All in all, compared to its predecessor, COP 54 Gold Express will provide a real boost in productivity – thanks to superior reliability, a 30–50% increase in service life and 10–15% hike in penetration rate.

Now rated at 30 bar!

Atlas Copco

COP 54 Gold Express specifications



General specifications

	Standard	
	English	Metric
Standard drill pipe connection (see options)	3 1/2 API reg pin	
Outside diameter (in & mm)	4.72	119.9
Length w/o bit shoulder to shoulder (in & mm)	47.0	1193.8
	51.2	1300.5
Length with bit extended (in & mm)	50.1	1272.5
Length with bit retracted (in & mm)	145.2	66.0
Weight w/o bit (lb & kg)	2.56	65.0
Backhead across flats (in & mm)		
Minimum bit size (in & mm)	5.27	133.9
Maximum bit size (in & mm)	5.98	151.9
Bore (in & mm)	3.940	100.08
Piston weight (lb & kg)	33	15.0
Stroke (in & mm)	4.53	115.1
Maximum pressure differential (psig & bar)	435.0	30.0
Maximum choke diameter (in & mm)	NA	NA

Air consumption:

	COP 54 Gold Express	
	318	150
145 psi/ 6,9 bar (scfm & l/s)	1,320	
blows per minute	498	235
218 psi/ 10,3 bar (scfm & l/s)	1,510	
blows per minute	685	323
290 psi/ 13,8 bar (scfm & l/s)	1,680	
blows per minute	935	441
363 psi/ 17,2 bar (scfm & l/s)	1,810	
blows per minute	1,081	510
435 psi/ 20,7 bar (scfm & l/s)	1,081	510
blows per minute	1,304	615
508 psi/ 24,1 bar (scfm & l/s)	2,070	
blows per minute	1,080	510
psi/ 27,6 bar (scfm & l/s)	1,940	
blows per minute		
psi/ 30,0 bar (scfm & l/s)	1,940	
blows per minute		

Above specifications/ratings are based on initial factory AIRselect setting number three

Part information			CONNECTIONS												PHYSICAL FEATURES													
Product No.	Product code	Description	RT 73 BOX LH	RT 96 BOX LH	RD50	2 3/8" API REG PIN	2 3/8" API REG BOX	2 7/8" API REG PIN	3 1/2" API REG Pin	3 1/2" API IF	INC35 PIN	BECO 3 1/2" PIN	LT 275 PIN	LT 475 PIN LH	LT 475 PIN	2X4 flats	CUBEX #24	CUBEX #24 double flats	Standard	More wear resistant wear sleeve	Quarry Mining	Low pressure	Thick casing	Left hand thread	Cutting Back head	Without Top sub	Reduced OD	
89001283	9705-02-28	COP54GE						X												X								X
89001271	9705-02-31	COP54GE					X													X	X							
89001243	9705-05-34	COP54GE							X											X								
89001255	9705-05-36	COP54GE							X											X	X			X	X			
89001288	9705-02-28-040	COP54GE E-kit						X												X								X
89001277	9705-02-31-040	COP54GE E-kit						X												X	X							
89001273	9705-05-34-040	COP54GE E-kit							X											X	X							
89001274	9705-05-36-040	COP54GE E-kit							X											X	X			X	X			

Atlas Copco Secoroc offers a wide range of bit body designs and button inserts to meet your specific drilling requirements. Contact your local sales office for details.



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