

# Secoroc Rock Drilling Tools

## Secoroc QLX 50/55 down-the-hole hammers



### QLX – the latest in high performance DTH hammers

At Atlas Copco Secoroc, we keep looking for new ways of improving our customer's productivity. That's why we have taken the best of the QL design, thrown in a few new ideas and created the Secoroc QLX 50 and QLX 55 down-the-hole hammers.

QLX 50 and QLX 55 are primarily deep hole hammers, but also proven to be high performance hammers for other applications.

These new 5" hammers offers 20% more all-round performance than the QL hammers and better water-logged deep hole drilling capacity than it's predecessor, the TD 50 hammer. They

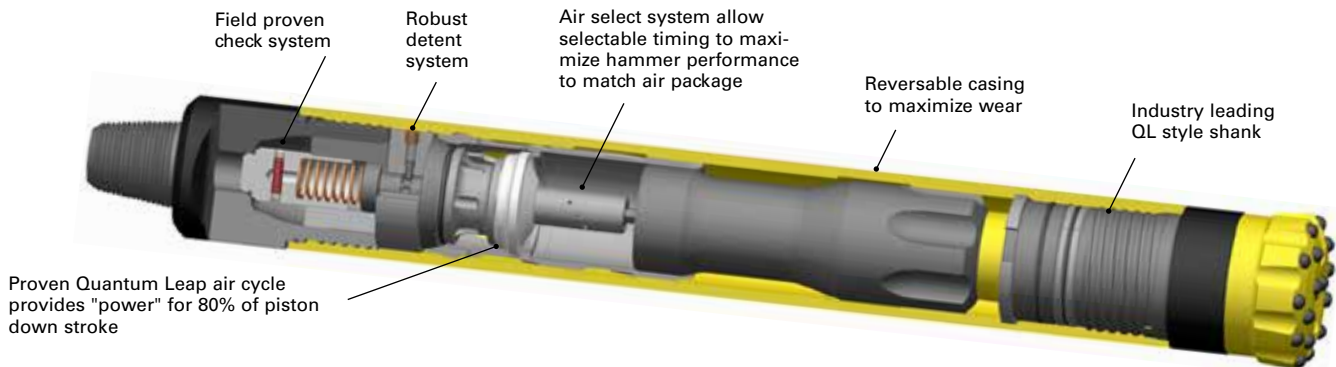
are benchmarks with highest rate of penetration (ROP), and reliability that are a cut above the rest, thanks to solutions such as the new e-kit making servicing easier and quicker to execute. The QLX 55 has thicker heavy duty (HD) casing for longer service life when drilling in abrasive rock formations.

The QLX 50 and QLX 55 has been stringently field tested in USA and Sweden prior to launch. They have proven outstanding in water well, geothermal drilling and other applications, thanks to the Air select feature that enables the QLX to match a variety of air packages while utilizing the excess air for hammer power.

*Sustainable Productivity*

**Atlas Copco**

# QLX 50/55 specifications



General specifications	QLX 50		QLX 55	
Connection Thread	3 1/2" API Reg pin			
Bit shank	QL 50			
Outside diameter (in/mm)	4.8"	121,9	5.08"	129,0
Length w/o bit shoulder to shoulder (in/mm)	41.76"	1060,7	41.76"	1060,7
Weight w/o bit (lb/kg)	153.0	69,5	178.0	80,9
Backhead across flats (in/mm)	3.7"/4"	95/102	3.7"/4"	95/102
Recommended Min bit size (in/mm)	5.25"	134	5.5"	140
Recommended Max bit size (in/mm)	6"	152	6"	152
Bore (in/mm)	3.95"	100,3	3.95"	100,3
Piston weight (lb/kg)	33.0	15,0	33.0	15,0
Stroke (in/mm)	3.75"	95,3	3.75"	95,3
Max pressure differential (psig/bar)	500	34,5	500	34,5
Make-up torque (ft-lbf/Nm)	5000	6770	5000	6770

Operational specifications		
Feed force	1500-2000 lbs	7-9 kN
Rotation speed	50-80 rpm	

Secoroc QLX 50/55			
Model	Product No.	Product code	Thread
QLX 50	89010092	9705-05-68-00	3 1/2" API Reg pin
QLX 55	89010093	9705-05-68-14	3 1/2" API Reg pin

E-kit			
Model	Product No.	Product code	Thread
QLX 50	89010124	9705-05-68-00-040	3 1/2" API Reg pin
QLX 55	89010125	9705-05-68-14-040	3 1/2" API Reg pin

Air consumption and impact frequency (with Air select on default setting 2)			
Air pressure	scfm	l/sec	bpm
100 psi / 6,9 bar	155	73	1305
150 psi / 10,3 bar	257	121	1426
200 psi / 13,8 bar	374	177	1547
250 psi / 17,2 bar	508	240	1668
300 psi / 20,7 bar	657	310	1788
350 psi / 24,1 bar	822	388	1909
400 psi / 27,6 bar*	961	453	2029
450 psi / 31 bar*	1109	524	2114
500 psi / 34,5 bar*	1258	594	2270

\* Estimated value

Bits, mm (inch)	Product No.	Product code	No. of buttons x button diameter, mm (inch), shape	
			Gauge buttons	Front buttons
134 mm (5 1/4") Flat front	90514420	100-5134-25-1218,10-20	8 x 16 mm (5/8"), Spherical	8 x 14,5 mm (9/16"), Spherical
134 mm (5 1/4") Speed bit	90514674	100-5134-25-1248,10-20	8 x 16 mm (5/8"), Spherical	8 x 14,5 mm (9/16"), Semi-ballistic
134 mm (5 1/4") Concave	90514424	100-5134-25-0218,10-20	8 x 16 mm (5/8"), Spherical	7 x 14,5 mm (9/16"), Spherical
140 mm (5 1/2") Flat front	90514382	100-5140-25-1218,10-20	8 x 16 mm (5/8"), Spherical	8 x 14,5 mm (9/16"), Spherical
140 mm (5 1/2") Speed bit	90514386	100-5140-25-1248,10-20	8 x 16 mm (5/8"), Spherical	10 x 14,5 mm (9/16"), Semi-ballistic
140 mm (5 1/2") Concave	90514387	100-5140-25-0218,10-20	8 x 16 mm (5/8"), Spherical	8 x 14,5 mm (9/16"), Spherical
140 mm (5 1/2") Convex	90515424	100-5140-25-2339,10-20	9 x 14,5 mm (9/16"), Ballistic	10 x 14,5 mm (9/16"), Ballistic
140 mm (5 1/2") Convex	90515428	100-5140-25-2337,10-20	8 x 16 mm (5/8"), Ballistic	7 x 16 mm (5/8"), Ballistic
146 mm (5 3/4") Flat front	90515087	100-5146-25-1218,10-20	8 x 16 mm (5/8"), Spherical	8 x 16 mm (5/8"), Spherical
146 mm (5 3/4") Concave	90514484	100-5146-25-0217,10-20	8 x 16 mm (5/8"), Spherical	8 x 16 mm (5/8"), Spherical
146 mm (5 3/4") Convex	90514713	100-5146-25-2338,10-20	9 x 16 mm (5/8"), Ballistic	11 x 14,5 mm (9/16"), Ballistic
152 mm (6") Flat front	90514958	100-5152-25-1217,10-20	8 x 16 mm (5/8"), Spherical	8 x 16 mm (5/8"), Spherical
152 mm (6") Concave	90514974	100-5152-25-0217,10-20	8 x 16 mm (5/8"), Spherical	8 x 16 mm (5/8"), Spherical