

Atlas Copco Rock Drilling Tools

SECOROC Down-the-hole equipment

Quantum Leap[®] Hammers



Strong performance and affordability

Our Quantum Leap[®] product line is available for those seeking a good balance between strong performance and cost. This product line was the drilling industry's first hybrid-combination of valve and valveless-air cycle down-hole drills. Setting many industry benchmarks, the Quantum Leap[®] line continues to offer good value.

Atlas Copco

QL 120 Specifications

General Specifications

	Standard		Slim	
	English	Metric	English	Metric
Standard drill pipe connection (see options)	6 ⁵ / ₈ API reg pin		6 ⁵ / ₈ API reg pin	
Outside diameter (in & mm)	11.2	285	10.75	273
Length w/o bit shoulder to shoulder (in & mm)	72.3	1837	72.3	1837
Length with bit extended (in & mm)	82.0	2083	82.0	2083
Length with bit retracted (in & mm)	80.0	2032	80.0	2032
Weight w/o bit (lb & kg)	1430	650	1257	571
Backhead across flats (in & mm)	4x1" AF		4x1" AF	
Minimum bit size (in & mm)	12.25	311	12.25	311
Maximum bit size (in & mm)	22.0	559	22.0	559
Bore (in & mm)	9.25	235	9.25	235
Piston weight (lb & kg)	350	159	350	159
Stroke (in & mm)	5.0	127	5.0	127
Maximum pressure differential (psig & bar)	250	17	250	17
Maximum choke diameter (in & mm)	0.75	19.0	0.75	19.0
Make-up torque (ft-lb & N-m)	12000	16248	12000	16248
Shank style	QL120		QL120	

Air Consumption:

	Standard	
	English	Metric
100 psi/ 6,9 bar (scfm & l/s)	804	379
blows per minute	585	
150 psi/ 10,3 bar (scfm & l/s)	1,248	589
blows per minute	695	
200 psi/ 13,8 bar (scfm & l/s)	1,680	792
blows per minute	805	
250 psi/ 17,2 bar (scfm & l/s)	2,100	990
blows per minute	915	
300 psi/ 20,7 bar (scfm & l/s)	2,508	1183
blows per minute	1,025	
350 psi/ 24,1 bar (scfm & l/s)	2,904	1370
blows per minute	1,135	
Above specifications/ratings are based on initial factory setting		

Part Information			CONNECTIONS		PHYSICAL FEATURES		OTHER FEATURES																				
Prod. code	Part No.	Description	4-1/2 reg pin	4-1/2 BECO pin	6-5/8 reg pin	7-5/8 reg box	8-5/8 reg pin	Blank Backhead	No Backhead	Standard	Deep Hole	Mizer	Quarry Mining	Low Pressure	High Frequency	Thick Casing	Tough Casing	Left Hand Threads	Cutting Backhead	Two Piece Chuck	Retrieval System	Hydrocyclone	Oil Free	Reduced OD	Oversize Chuck	AirSelect	
52107448	9712-09-50-00	QL120			X					X																	
52107620	9712-09-50-03	QL120			X					X											X						
52138385	9712-09-50-09	QL120			X					X														X			
52107455		QL120HC			X					X												X					
52133501	9712-09-50-05	QL120HC			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. Consult the Drill Bits catalogue, or contact your local sales office for details.