

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.

QL 80 Specifications

General Specifications

	Standard		Soft Rock/HF	
	English	Metric	English	Metric
Standard drill pipe connection (see options)	4 1/2 API reg pin		4 1/2 API reg pin	
Outside diameter (in & mm)	7.1	181	7.1	181
Length w/o bit shoulder to shoulder (in & mm)	57.5	1461	57.5	1461
Length with bit extended (in & mm)	63.5	1612	63.5	1612
Length with bit retracted (in & mm)	61.7	1567	61.7	1567
Weight w/o bit (lb & kg)	446	203	446	203
Backhead across flats (in)	2x5 7/8 AF		2x5 7/8 AF	
Minimum bit size (in & mm)	7.9	200	7.9	200
Maximum bit size (in & mm)	12.0	305	12.0	305
Bore (in & mm)	5.9	149	5.9	149
Piston weight (lb & kg)	112	51	117	53
Stroke (in & mm)	3.75	95	2.75	70
Maximum pressure differential (psig & bar)	350	25	350	25
Maximum choke diameter (in & mm)	0.50	12.7	0.50	12.7
Make-up torque (ft-lb & N-m)	8000	10832	8000	10832
Shank style	QL80		QL80	

Air Consumption:

	Standard		Soft Rock/HF	
	English	Metric	English	Metric
100 psi/ 6,9 bar (scfm & l/s)	391	184	331	156
blows per minute	866		1,242	
150 psi/ 10,3 bar (scfm & l/s)	505	238	559	264
blows per minute	966		1,282	
200 psi/ 13,8 bar (scfm & l/s)	680	321	784	370
blows per minute	1,058		1,333	
250 psi/ 17,2 bar (scfm & l/s)	915	432	1,006	475
blows per minute	1,141		1,396	
300 psi/ 20,7 bar (scfm & l/s)	1,211	571	1,225	578
blows per minute	1,216		1,469	
350 psi/ 24,1 bar (scfm & l/s)	1,568	740	1,441	680
blows per minute	1,283		1,552	

Above specifications/ratings are based on initial factory setting

Part Information			CONNECTIONS		PHYSICAL FEATURES		OTHER FEATURES																			
			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
Prod. code	Part No.	Description																								
52083623	9708-08-50-00	QL80	X						X																	
52083631	9708-32-50-00	QL80		X					X																	
52083656	9708-08-50-05	QL80HC	X						X												X					
52313426	9708-08-52-00	QL80HF	X										X													
52308350	9708-08-52-03	QL80HF	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.