

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 40/45 Specifications

General Specifications

	Standard		Quarry	
	English	Metric	English	Metric
Standard drill pipe connection (see options)	2 3/8 API reg pin		2 3/8 API reg pin	
Outside diameter (in & mm)	3.7	94	3.9	98
Length w/o bit shoulder to shoulder (in & mm)	37.3	947	37.3	947
Length with bit extended (in & mm)	41.8	1061	41.8	1061
Length with bit retracted (in & mm)	40.4	1026	40.4	1026
Weight w/o bit (lb & kg)	71	32	81	37
Backhead across flats (in)	1 3/4 x 2 1/2 AF		1 3/4 x 2 1/2 AF	
Minimum bit size (in & mm)	4.1	105	4.25	110
Maximum bit size (in & mm)	5.0	125	5.0	125
Bore (in & mm)	3.0	76	3.0	76
Piston weight (lb & kg)	17	8	17	8
Stroke (in & mm)	4.0	102	4.0	102
Maximum pressure differential (psig & bar)	350	25	350	25
Maximum choke diameter (in & mm)	0.38	9.6	0.38	9.6
Make-up torque (ft-lb & N-m)	4000	5416	4000	5416
Shank style	QL40		QL40	

Air Consumption:

	QL40/45	
100 psi/ 6,9 bar (scfm & l/s)	154	73
blows per minute	1,354	
150 psi/ 10,3 bar (scfm & l/s)	245	116
blows per minute	1,459	
200 psi/ 13,8 bar (scfm & l/s)	339	160
blows per minute	1,580	
250 psi/ 17,2 bar (scfm & l/s)	436	206
blows per minute	1,717	
300 psi/ 20,7 bar (scfm & l/s)	536	253
blows per minute	1,869	
350 psi/ 24,1 bar (scfm & l/s)	638	301
blows per minute	2,036	
400 psi/ 27,6 bar (scfm & l/s)	809	382
blows per minute	2,220	
435 psi/ 30,0 bar (scfm & l/s)	884	417
blows per minute	2,357	

Above specifications/ratings are based on initial factory setting

Part Information			CONNECTIONS										PHYSICAL FEATURES													
			2-3/8 reg pin	2-3/8 reg box	2-7/8 IF pin	2-7/8 IF box	2-7/8 reg pin	2-7/8 reg box	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
Prod. code	Part No.	Description																								
52315389	9704-03-50-00	QL40	X								X															
52307873	9704-03-51-02	QL45Q	X									X				X	X									
52310398	9704-44-50-00	QL40LH	X								X							X								
QL40/45 E-Kits & Accessories*																										
52336807	9704-03-50-00-040	QL40 E-Kit	X								X															
52336815	9704-03-51-00-040	QL45 E-Kit	X									X				X										

* In addition to new externals, rebuild kits also contain internal hardware needed to insure your rebuild is good from the inside out.

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.