



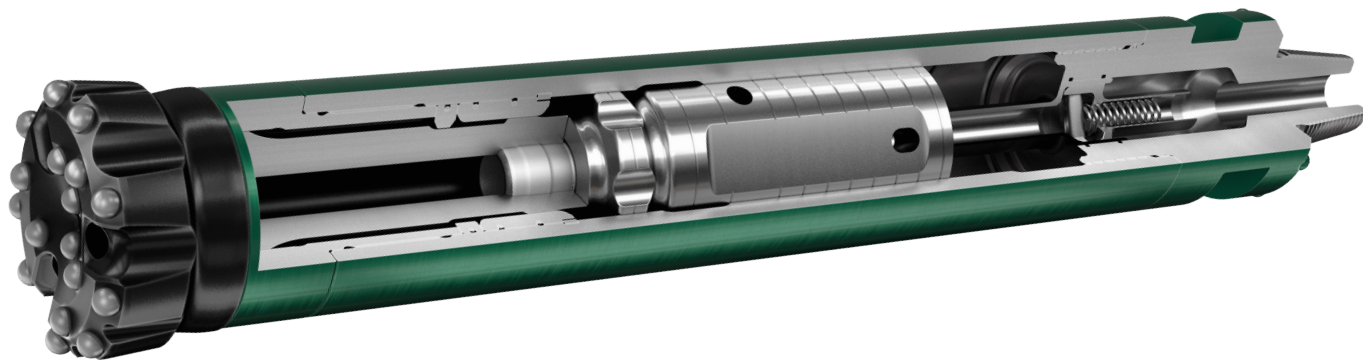
BRINGING NEW POWER DOWN THE HOLE

THE WARRIOR DTH SERIES
FOR MINING & CONSTRUCTION APPLICATIONS

INTRODUCING THE WARRIOR DTH PRODUCT LINE is a natural development for Terelion. Many mines and quarries prefer the DTH method for production drilling. In addition, DTH is ideal for drilling the pre-split and buffer holes in surface mining operations that use rotary for their production drilling. For these mines, Terelion now offers the perfect combo.

The Warrior DTH product line comes with a full range covering 4, 5, 6, 7 and 8-inch hammers. The Warrior DTH hammer is built to be a reliable workhorse - combining high performance and efficiency with a rugged construction. Its easy-to-service design allows for minimal service time and higher productivity. A range of QL shank bits complement the hammer range for reliable and high performance drilling.

WARRIOR DTH HAMMER



ROBUST PISTON

- Designed to withstand the most difficult of drilling conditions
- High level of reliability achieved by a robust solid piston and thorough field testing
- Premium material and heat treatment process to achieve maximum resistance to fatigue and failure
- Value Add: a reliable workhorse hammer that delivers productivity over an extended life

OPTIMIZED AIR CYCLE

- Achieved through a comprehensive design simulation analysis
- Designed to deliver maximum power output
- Value Add: a powerful hammer with low air consumption; resulting in lower cost operation

SIMPLE DESIGN

- Very easy to assemble and disassemble, with very few tools needed
- Value Add: easy to service and return to production with minimal service time

PREMIUM QUALITY

- Premium materials and state of the art processes assure the highest manufacturing standards and exacting tolerances
- Value Add: a rugged hammer consistently delivering elevated power levels over an extended tool life

WARRIOR DTH BITS

OPTIMIZED DESIGN

- Air holes and channels designed for efficient cuttings evacuation and fast drilling
- Cutting structure are load balanced for maximum power transmission and even drilling
- Comprehensive bit selection for commonly encountered rock conditions
- Value Add: a fast and efficient bit designed for your drilling conditions

PREMIUM TUNGSTEN CARBIDE

- Proven carbide technology and grade selection developed through years of experience in mining industry
- Wear resistant carbide allows extended runs between re-grinding gives improved utilization
- Value Add: longer bit life and better utilization

WEAR RESISTANT STEEL BODY

- Premium steel and proprietary heat treatment provides high surface hardness and tough core optimal material properties
- Wear resistant bit face provides extended service life and button retention
- Value Add: extended life and lower cost per meter

EXACTING MANUFACTURING

- Highly automated manufacturing processes deliver precision machining and reliable process control
- Critical button hole drilling and button installation processes are tightly controlled to assure consistent field performance
- Value Add: long, reliable performance while transmitting high power to rock



WARRIOR 4" HAMMER

HAMMER WEIGHT		HAMMER DIAMETER		HAMMER LENGTH		BIT SIZE		BIT SHANK
kg	lb	mm	inch	mm	inch	mm	inch	
32	70	98	3.86	803	31.61	115 - 127	4 ½ - 5	QLX40

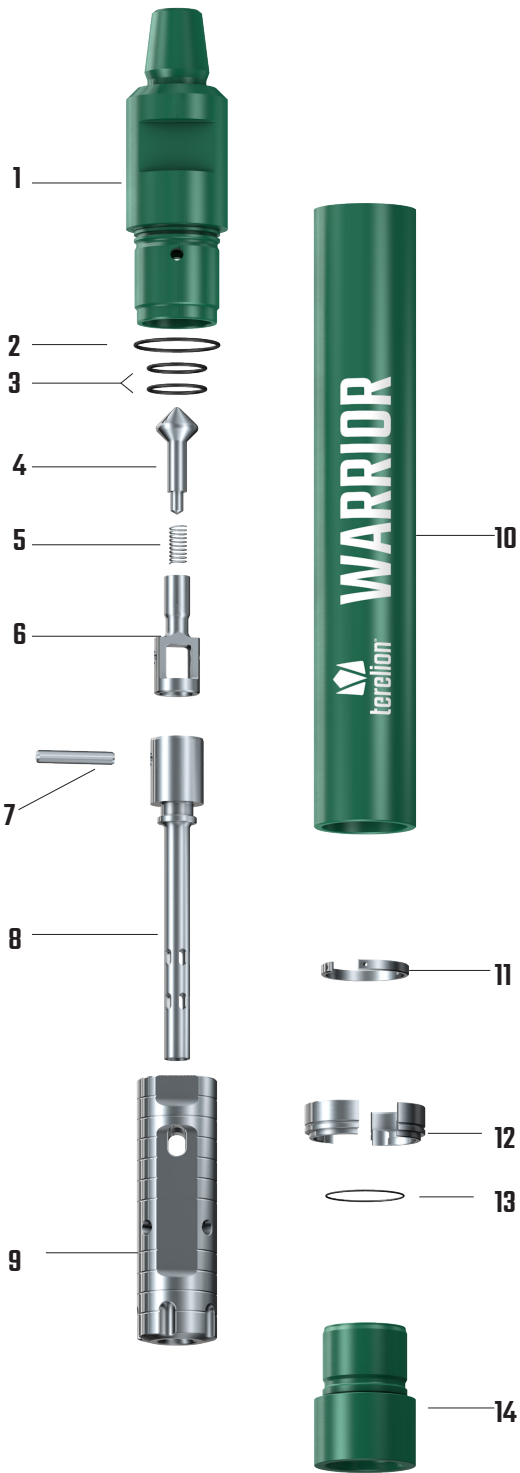
AIR CONSUMPTION					
150 psi	250 psi	350 psi	10 bar	18 bar	24 bar
221 cfm	455 cfm	627 cfm	6.3 m³/min	12.9 m³/min	17.8 m³/min

HAMMER ASSEMBLY				
Type	Part#	Description	lb	kg
WA040QX-S23AX	H20033	2 3/8" API PIN HAMMER	70	32
WA040QX-S27AX	H20127	2 7/8" API PIN HAMMER	70	32

SPARES LIST				
Item	Part#	Description	lb	kg
1	DH60359	TOP SUB 2 3/8 API PIN	18.87	8.56
	DH60797	TOP SUB 2 7/8 API PIN	18.87	8.56
2		O-RING TOP SUB OD	In seal kit	
3		O-RING TOP SUB ID	In seal kit	
4	DH60351	CHECK VALVE DART	0.11	0.05
5	DH60350	CHECK VALVE SPRING	0.15	0.07
6	DH60352	CHECK VALVE GUIDE	0.59	0.27
7	DH60354	RETAINER PIN	0.15	0.07
8	DH60353	FEED TUBE	1.61	0.73
9	DH60366	PISTON	7.43	6.67
10	DH60357	PISTON CASE	26.59	12.06
11	DH60358	PISTON RET. RING	0.15	0.07
12	DH60363	BIT RETAINER RING	0.66	0.3
13		O-RING BIT RETAINER RING	In seal kit	
14	DH60365	DRIVER SUB	6.17	2.8

IN SEAL KIT				
	DH60370	1 piece of #2, #13 & 2 pieces of #3	0.015	0.007

REBUILD KIT				
	DH60618	1 piece of #1, #7, #10, #11, #14 & SEAL KIT	52	23.59
	DH20128	1 piece of #1, #7, #10, #11, #14 & SEAL KIT	52	23.59



QLX40 BIT ASSORTMENT
FOR WARRIOR 4" HAMMER

	DIAMETER		AIRHOLES	GAGE BUTTONS	BUTTON DIA. MM		WEIGHT		PART NO.	PART TYPE	SHANK	
	mm	inch			Gage	Face	kg	lbs			QLX40	
CONCAVE FACE / SPHERICAL BUTTON												
	115	4 ½	2	8	14	13	8.6	18.9	H20046	QX4-044VS08F2S		
	121	4 ¾	2	8	14	13	8.9	19.6	H20050	QX4-046VS08F2S		
	127	5	2	8	14	13	9.2	20.2	H20051	QX4-050VS08F2S		
FLAT FACE / SPHERICAL BUTTON												
	115	4 ½	2	8	14	13	8.5	18.7	H20049	QX4-044FS08F2S		
	115	4 ½	2	8	16	13	8.7	19.1	H20048	QX4-044FS08J2S		
	127	5	2	8	14	13	9.3	20.5	H20053	QX4-050FS08F2S		
CONVEX FACE / BALLISTIC BUTTON												
	115	4 ½	2	8	14	13	8.5	18.7	H20047	QX4-044XB08F2S		
	127	5	2	8	14	13	9.3	20.5	H20052	QX4-050XB08F2S		
FOOT VALVE												
							0.04	0.09	DH60368			

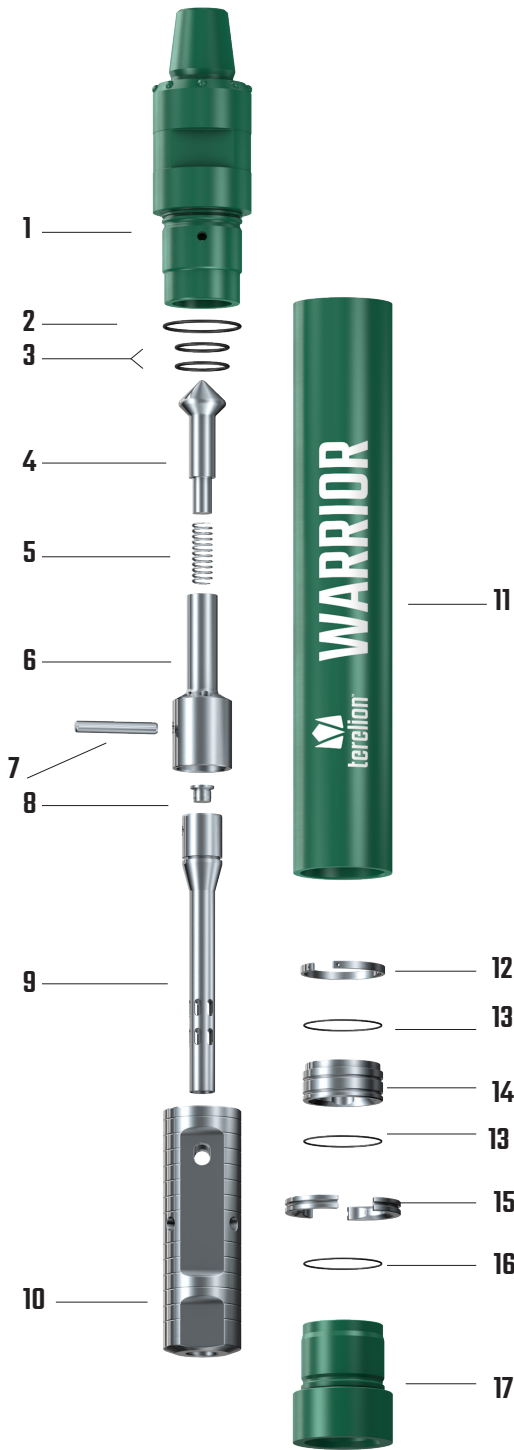
WARRIOR 5" SLIM HAMMER

HAMMER WEIGHT		HAMMER DIAMETER		HAMMER LENGTH		BIT SIZE		BIT SHANK
kg	lb	mm	inch	mm	inch	mm	inch	
55	120	120	4.72	962	37.87	130 - 165	5 ¼ - 6 ½	QL50

AIR CONSUMPTION					
150 psi	250 psi	350 psi	10 bar	18 bar	24 bar
187 cfm	487 cfm	713 cfm	5.3 m³/min	13.8 m³/min	20.2 m³/min

HAMMER ASSEMBLY				
Type	Part#	Description	lb	kg
WA050QL-S34AV	H20125	3 1/2" API PIN SLIM HAMMER	120	55

SPARES LIST				
Item	Part#	Description	lb	kg
1	DH60787	TOP SUB 3 1/2 API PIN	22.05	10.0
2		O-RING TOP SUB OD	In seal kit	
3		O-RING TOP SUB ID	In seal kit	
4	DH48356	CHECK VALVE DART	0.31	0.14
5	DH48358	CHECK VALVE SPRING	0.09	0.04
6	DH60560	CHECK VALVE GUIDE	1.87	0.85
7	DH60558	RETAINER PIN	0.2	0.09
8		BLANK CHOKE	In Choke Set	0.09
9	DH60553	FEED TUBE	2.45	1.11
10	DH60564	PISTON	30.86	14
11	DH60786	PISTON CASE	41	18.6
12	DH60556	PISTON RET. RING	0.24	0.11
13		O-RING GUIDE SLEEVE	In seal kit	
14	DH60566	GUIDE SLEEVE	2.4	1.09
15	DH60565	BIT RETAINER RING	0.93	0.42
16		O-RING BIT RETAINER RING	In seal kit	
17	DH60788	DRIVER SUB	11	5
IN CHOKE SET				
	DH48898	BLANK, 1/8", 3/16" & 1/4"	0.06	0.028
IN SEAL KIT				
	DH60571	1 piece of #2, #15 & 2 pieces of #3, #12	0.06	0.03
REBUILD KIT				
	DH20126	1 piece of #1, #8, #11, #17 & SEAL KIT	74.07	33.6



QL5 BIT ASSORTMENT FOR WARRIOR 5" SLIM HAMMER

DIAMETER		AIRHOLES	GAGE BUTTONS	BUTTON DIA. MM		WEIGHT		PART NO.	PART TYPE	SHANK
mm	inch			Gage	Face	kg	lbs			QL50
CONCAVE FACE / SPHERICAL BUTTON										
	140	5 ½	2	8	16	14	15.6	34.4	H20072	QL5-054VS08D2S
	146	5 ¾	2	8	16	14	16.0	35.3	H20075	QL5-056VS08D2S
	152	6	2	8	18	16	16.4	36.2	H20076	QL5-060VS08B2S
	165	6 ½	2	8	18	16	17.5	38,6	H20079	QL5-064VS08B2S
FLAT FACE / SPHERICAL BUTTON										
	140	5 ½	3	9	16	14	15.6	34.4	H20074	QL5-054FS09D3S
	152	6	3	9	18	16	16.5	36.4	H20077	QL5-060FS09B3S
CONVEX FACE / BALLISTIC BUTTON										
	140	5 ½	3	9	16	16	15.3	33.7	H20073	QL5-054XB09C3S
FOOT VALVE										
							0,07	0,15	DH60567	



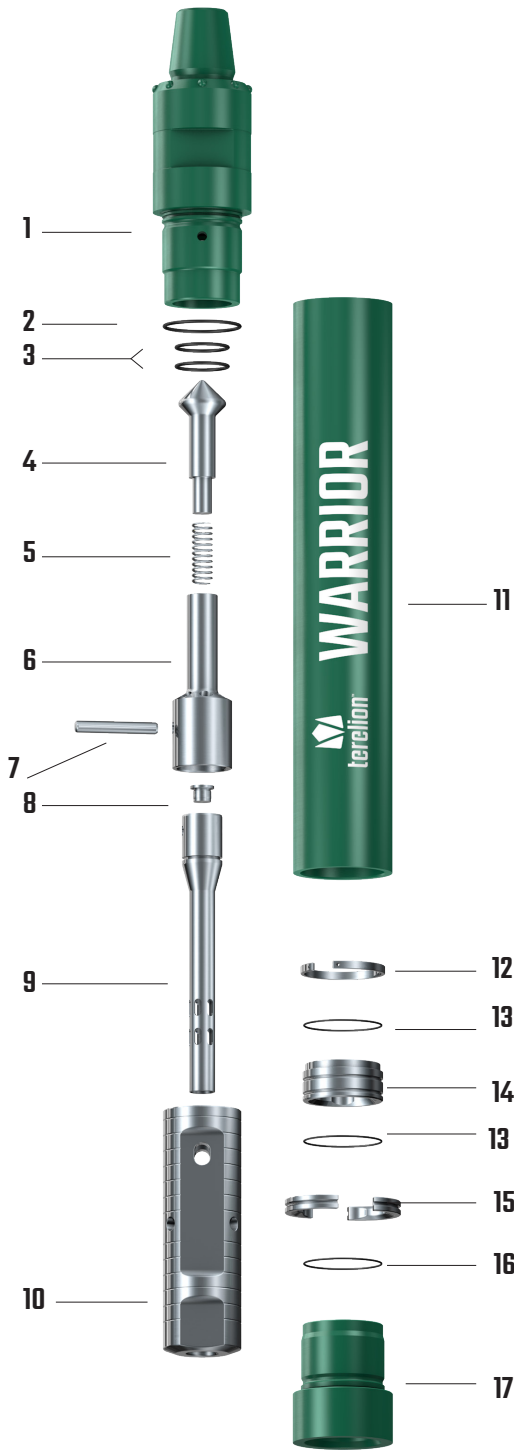
WARRIOR 5" HAMMER

HAMMER WEIGHT		HAMMER DIAMETER		HAMMER LENGTH		BIT SIZE		BIT SHANK
kg	lb	mm	inch	mm	inch	mm	inch	
70	148	127	5	962	37.87	140 - 165	5 ½ - 6 ½	QL50

AIR CONSUMPTION					
150 psi	250 psi	350 psi	10 bar	18 bar	24 bar
187 cfm	487 cfm	713 cfm	5.3 m³/min	13.8 m³/min	20.2 m³/min

HAMMER ASSEMBLY				
Type	Part#	Description	lb	kg
WA050QL-H34AVC	H20078	3 1/2" API PIN HAMMER	148	67

SPARES LIST				
Item	Part#	Description	lb	kg
1	DH60561	TOP SUB 3 1/2 API PIN	39.79	18.05
2		O-RING TOP SUB OD	In seal kit	
3		O-RING TOP SUB ID	In seal kit	
4	DH48356	CHECK VALVE DART	0.31	0.14
5	DH48358	CHECK VALVE SPRING	0.09	0.04
6	DH60560	CHECK VALVE GUIDE	1.87	0.85
7	DH60558	RETAINER PIN	0.2	0.09
8		BLANK CHOKE	In Choke Set	0,09
9	DH60553	FEED TUBE	2.45	1.11
10	DH60564	PISTON	30.86	14
11	DH60555	PISTON CASE	55.57	25.21
12	DH60556	PISTON RET. RING	0.24	0.11
13		O-RING GUIDE SLEEVE	In seal kit	
14	DH60566	GUIDE SLEEVE	2.4	1.09
15	DH60565	BIT RETAINER RING	0.93	0.42
16		O-RING BIT RETAINER RING	In seal kit	
17	DH60569	DRIVER SUB	12.17	5.52
IN CHOKE SET				
	DH48898	BLANK, 1/8", 3/16" & 1/4"	0.06	0.028
IN SEAL KIT				
	DH60571	1 piece of #2, #15 & 2 pieces of #3, #12	0.06	0.03
REBUILD KIT				
	DH60568	1 piece of #1, #8, #11, #17 & SEAL KIT	100.5	45.6



QL5 BIT ASSORTMENT FOR WARRIOR 5" HAMMER

		DIAMETER		AIRHOLES	GAGE BUTTONS	BUTTON DIA. MM		WEIGHT		PART NO.	PART TYPE	SHANK	
		mm	inch			Gage	Face	kg	lbs			QL50	
CONCAVE FACE / SPHERICAL BUTTON													
	140	5 ½	2	8	16	14	15.6	34.4	H20072	QL5-054VS08D2S			
	146	5 ¾	2	8	16	14	16.0	35.3	H20075	QL5-056VS08D2S			
	152	6	2	8	18	16	16.4	36.2	H20076	QL5-060VS08B2S			
	165	6 ½	2	8	18	16	17.5	38,6	H20079	QL5-064VS08B2S			
FLAT FACE / SPHERICAL BUTTON													
	140	5 ½	3	9	16	14	15.6	34.4	H20074	QL5-054FS09D3S			
	152	6	3	9	18	16	16.5	36.4	H20077	QL5-060FS09B3S			
CONVEX FACE / BALLISTIC BUTTON													
	140	5 ½	3	9	16	16	15.3	33.7	H20073	QL5-054XB09C3S			
FOOT VALVE													
								0,07	0,15	DH60567			

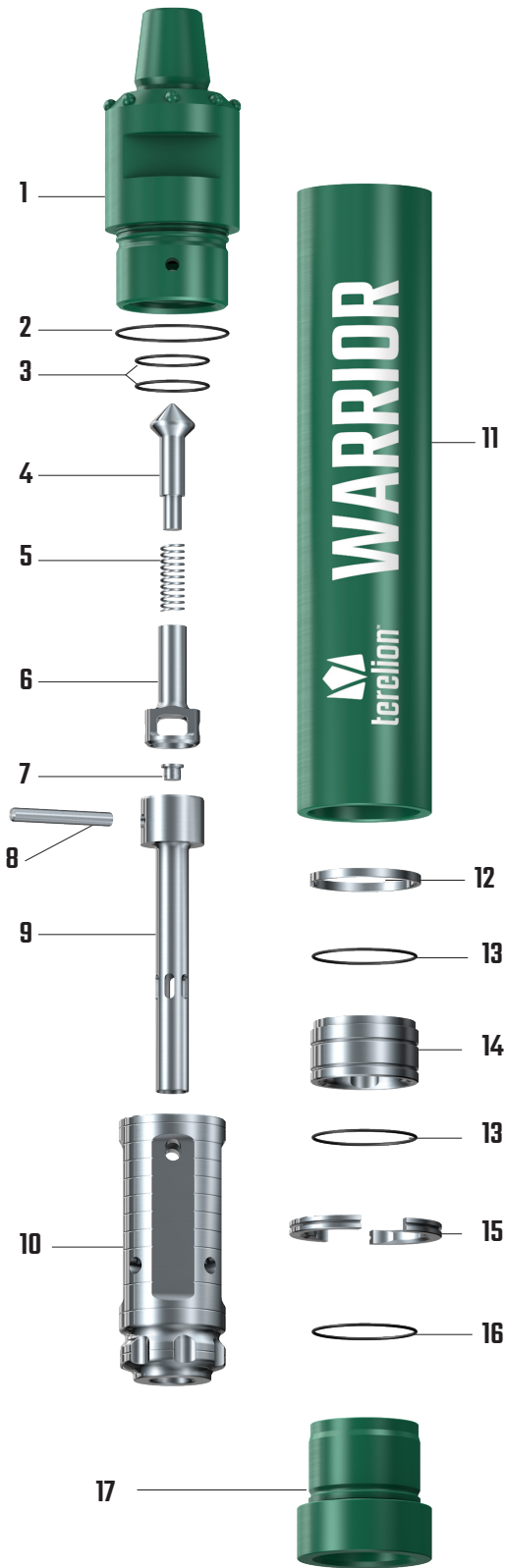
WARRIOR 6" SLIM HAMMER

HAMMER WEIGHT		HAMMER DIAMETER		HAMMER LENGTH		BIT SIZE		BIT SHANK
kg	lb	mm	inch	mm	inch	mm	inch	
76	167	142	5.59	912	35.9	152 - 203	6 - 8	QL60

AIR CONSUMPTION					
150 psi	250 psi	350 psi	10 bar	18 bar	24 bar
349 cfm	636 cfm	883 cfm	9.9 m³/min	19.3 m³/min	25.0 m³/min

HAMMER ASSEMBLY				
Type	Part#	Description	lb	kg
WA060QL-S34AV	H20089	3 1/2" API PIN SLIM HAMMER	167	76

SPARES LIST				
Item	Part#	Description	lb	kg
1	DH60669	TOP SUB 3 ½ API PIN	44	20
2		O-RING 110	In seal kit	
3		O-RING 72	In seal kit	
4	DH48356	CHECK VALVE DART	0.7	0.3
5	DH48358	CHECK VALVE SPRING	0.04	0.02
6	DH48361	CHECK VALVE GUIDE	0.7	0.3
7		BLANK CHOKE	In CHOKE SET	
8	DH48347	RETAINER PIN	0.4	0.2
9	DH48357	FEED TUBE	2.6	1.2
10	DH48348	PISTON	40.3	18.3
11	DH60668	PISTON CASE	52	23.5
12	DH48350	PISTON RET. RING	0.2	0.1
13		O-RING 110	In seal kit	
14	DH48352	GUIDE SLEEVE	5.1	2.3
15	DH48359	BIT RETAINER RING	1.3	0.6
16		O-RING 110	In seal kit	
17	DH60670	DRIVER SUB	14	6.5
IN CHOKE SET				
	DH48898	BLANK, 1/8", 3/16" & 1/4"	0.06	0.028
IN SEAL KIT				
	DH48897	1 piece of #2, #16 & 2 pieces of #3, #13	0.06	0.03
REBUILD KIT				
	DH60675	1 piece of #1, #11, #12, #17 & SEAL KIT	116	52.8



QL6 BIT ASSORTMENT FOR WARRIOR 6" SLIM HAMMER

DIAMETER												AIRHOLES	GAGE BUTTONS	BUTTON DIA. MM		WEIGHT		PART NO.	PART TYPE	SHANK			
mm												inch			Gage	Face	kg	lbs					QL60
CONCAVE FACE / SPHERICAL BUTTON																							
	152	6	2	8	18	18	26	57	H20108	QL6-060VS08A2S													
	155	6 ¼	2	8	18	18	26	58	H20109	QL6-061VS08A2S													
	159	6 ¼	2	8	18	18	27	59	H20110	QL6-062VS08A2S													
	165	6 ½	3	9	18	18	28	61	H09922	QL6-064VS09A3S													
	172	6 ¾	3	9	18	18	29	64	H09923	QL6-066VS09A3S													
	178	7	3	9	18	18	29	64	H09924	QL6-070VS09A3S													
	190	7 ½	3	9	18	18	31	68	H09925	QL6-074VS09A3S													
	203	8	3	9	18	18	33	73	H09926	QL6-080VS09A3S													
FLAT FACE / SPHERICAL BUTTON																							
	165	6 ½	3	9	18	18	28	61	H09927	QL6-064FS09A3S													
	172	6 ¾	3	9	18	18	29	64	H09928	QL6-066FS09A3S													
CONVEX FACE / BALLISTIC BUTTON																							
	165	6 ½	3	9	18	18	28	61	H09929	QL6-064XB09A3S													
	172	6 ¾	3	9	18	18	29	64	H09930	QL6-066XB09A3S													
FOOT VALVE																							
							0.1	0.2	DH60140														

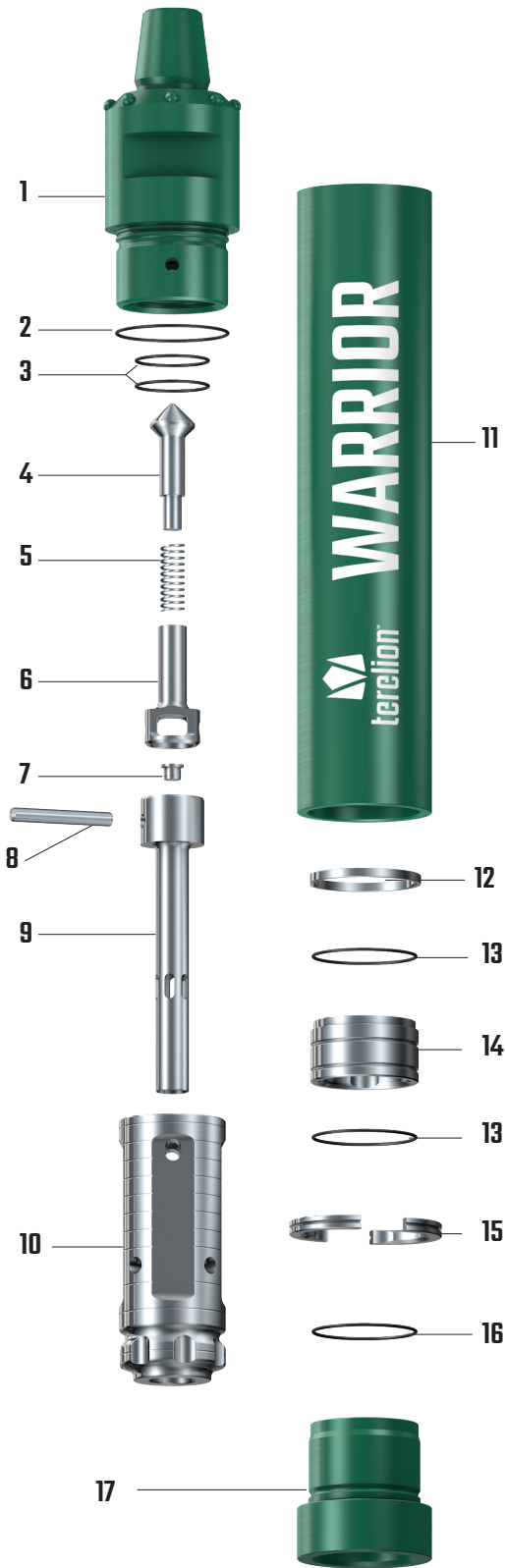
WARRIOR 6" HAMMER

HAMMER WEIGHT		HAMMER DIAMETER		HAMMER LENGTH		BIT SIZE		BIT SHANK
kg	lb	mm	inch	mm	inch	mm	inch	
92	203	150	5.9	912	35.9	165 - 203	6 ½ - 8	QL60

AIR CONSUMPTION					
150 psi	250 psi	350 psi	10 bar	18 bar	24 bar
349 cfm	636 cfm	883 cfm	9.9 m³/min	19.3 m³/min	25.0 m³/min

HAMMER ASSEMBLY				
Type	Part#	Description	lb	kg
WA060QL-H34AVC	H09904	3 1/2" API PIN HAMMER	203	92
WA060QL-H34FYC	H20115	3 1/2" API IF PIN HAMMER	203	92

SPARES LIST				
Item	Part#	Description	lb	kg
1	DH48351	TOP SUB 3 ½ API PIN	51.9	23.6
	DH60781	TOP SUB 3 ½ API IF PIN	51.9	23.6
2		O-RING 110	In seal kit	
3		O-RING 72	In seal kit	
4	DH48356	CHECK VALVE DART	0.7	0.3
5	DH48358	CHECK VALVE SPRING	0.04	0.02
6	DH48361	CHECK VALVE GUIDE	0.7	0.3
7		BLANK CHOKE	In CHOKE SET	
8	DH48347	RETAINER PIN	0.4	0.2
9	DH48357	FEED TUBE	2.6	1.2
10	DH48348	PISTON	40.3	18.3
11	DH48349	PISTON CASE	74.1	33.7
	DH60780	PISTON CASE - IF PIN HAMMER	74.1	33.7
12	DH48350	PISTON RET. RING	0.2	0.1
13		O-RING 110	In seal kit	
14	DH48352	GUIDE SLEEVE	5.1	2.3
15	DH48359	BIT RETAINER RING	1.3	0.6
16		O-RING 110	In seal kit	
17	DH48362	DRIVER SUB	15.8	7.2
	DH60782	DRIVER SUB - IF PIN HAMMER	15.8	7.2
IN CHOKE SET				
	DH48898	BLANK, 1/8", 3/16" & 1/4"	0.06	0.028
IN SEAL KIT				
	DH48897	1 piece of #2, #16 & 2 pieces of #3, #13	0.06	0.03
REBUILD KIT				
	DH48947	1 piece of #1, #11, #12, #17 & SEAL KIT	149.9	64.5
	DH20116	1 piece of #1, #11, #12, #17 & SEAL KIT	149.9	64.5



QL6 BIT ASSORTMENT FOR WARRIOR 6" HAMMER

DIAMETER												AIRHOLES	GAGE BUTTONS	BUTTON DIA. MM		WEIGHT		PART NO.	PART TYPE	SHANK	
mm												inch		Gage	Face	kg	lbs			QL60	
CONCAVE FACE / SPHERICAL BUTTON																					
	165	6 ½	3	9	18	18	28	61	H09922	QL6-064VS09A3S											
	172	6 ¾	3	9	18	18	29	64	H09923	QL6-066VS09A3S											
	178	7	3	9	18	18	29	64	H09924	QL6-070VS09A3S											
	190	7 ½	3	9	18	18	31	68	H09925	QL6-074VS09A3S											
	203	8	3	9	18	18	33	73	H09926	QL6-080VS09A3S											
FLAT FACE / SPHERICAL BUTTON																					
	165	6 ½	3	9	18	18	28	61	H09927	QL6-064FS09A3S											
	172	6 ¾	3	9	18	18	29	64	H09928	QL6-066FS09A3S											
CONVEX FACE / BALLISTIC BUTTON																					
	165	6 ½	3	9	18	18	28	61	H09929	QL6-064XB09A3S											
	172	6 ¾	3	9	18	18	29	64	H09930	QL6-066XB09A3S											
FOOT VALVE																					
												0.1	0.2	DH60140							

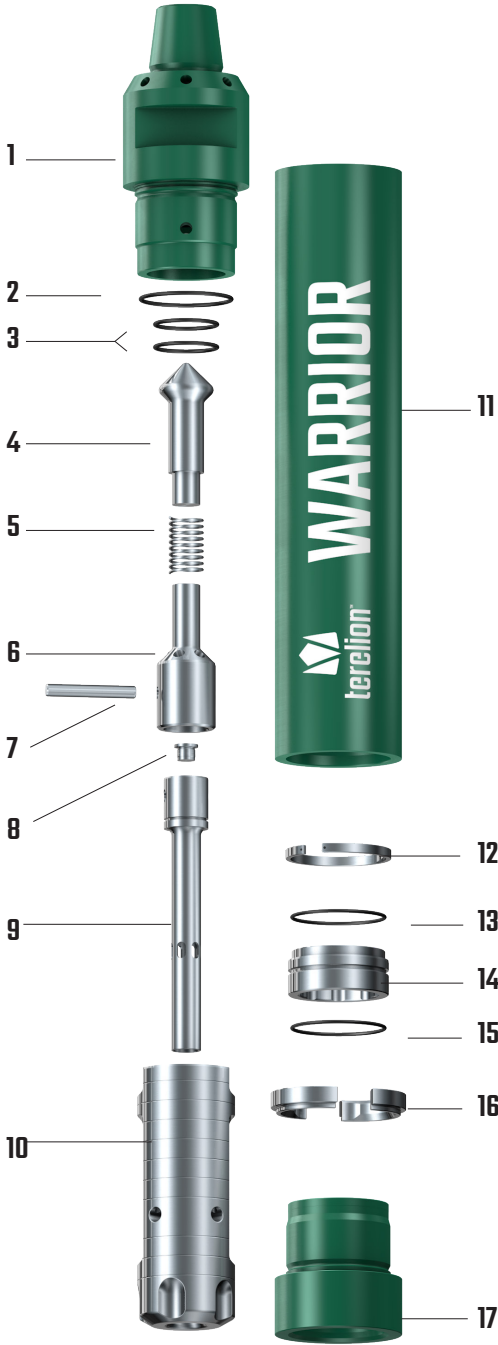
WARRIOR 8" HAMMER

HAMMER WEIGHT		HAMMER DIAMETER		HAMMER LENGTH		BIT SIZE		BIT SHANK
kg	lb	mm	inch	mm	inch	mm	inch	
193	425	194	7.64	1161	45.71	203 - 254	8 - 10	QL80

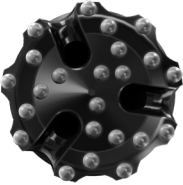
AIR CONSUMPTION					
150 psi	250 psi	350 psi	10 bar	18 bar	24 bar
530 cfm	1021 cfm	1413 cfm	15.0 m³/min	28.9m³/min	40.0 m³/min

HAMMER ASSEMBLY				
Type	Part#	Description	lb	kg
WA080QL-S44AWC	H20067	4 1/2" API PIN HAMMER	425.5	193

SPARES LIST				
Item	Part#	Description	lb	kg
1	DH60498	TOP SUB 4 1/2 API PIN	98.15	44.52
2		O-RING TOP SUB OD	In seal kit	
3		O-RING TOP SUB ID	In seal kit	
4	DH60503	CHECK VALVE DART	0.42	0.19
5	DH60506	CHECK VALVE SPRING	0.11	0.05
6	DH60502	CHECK VALVE GUIDE	6.12	2.78
7	DH60501	RETAINER PIN	0.68	0.31
8		BLANK CHOKE	In Choke Set	
9	DH60500	FEED TUBE	6.19	2.81
10	DH60505	PISTON	91.27	41.4
11	DH60499	PISTON CASE	172.9	78.43
12	DH60504	PISTON RET. RING	0.84	0.38
13		O-RING GUIDE SLEEVE	In seal kit	
14	DH60509	GUIDE SLEEVE	7.38	3.35
15		O-RING BIT RETAINER RING	In seal kit	
16	DH60507	BIT RETAINER RING	3.66	1.66
17	DH60508	DRIVER SUB	35	15.88
IN CHOKE SET				
	DH48898	BLANK, 1/8", 3/16" & 1/4"	0.06	0.028
IN SEAL KIT				
	DH60512	1 piece of #2, #15 & 2 pieces of #3, #12	0.06	0.03
REBUILD KIT				
	DH60702	1 piece of #1, #11, #12, #17 & SEAL KIT	307.74	139.59



QL8 BIT ASSORTMENT FOR WARRIOR 8" HAMMER

DIAMETER		AIRHOLES	GAGE BUTTONS	BUTTON DIA. MM		WEIGHT		PART NO.	PART TYPE	SHANK
mm	inch			Gage	Face	kg	lbs			QL80
CONCAVE FACE / SPHERICAL BUTTON										
	203	8	3	9	18	18	50.6	111	H20059	QL8-080VS09A3S
	229	9	3	12	18	18	56.8	125	H20060	QL8-090VS12A3S
	254	10	3	12	18	18	65.1	143	H20063	QL8-100VS12A3S
CONVEX FACE / BALLISTIC BUTTON										
	229	9	3	12	18	18	56.8	125	H20062	QL8-090XB12A3S
	254	10	3	12	18	18	65.1	143	H20061	QL8-100XB12A3S
FOOT VALVE										
							0.13	0.29	DH60471	



WARRIOR DTH HAMMER

PART TYPE KEY

1 2 3 4 5 6 7
WA060QL-H34AXC

1. HAMMER RANGE

(WA)RRIOR

2. HAMMER SIZE

040	4"
050	5"
060	6"
070	7"
080	8"

3. SHANK TYPE

QL	QL SHANK
QX	QLX SHANK
WA	WARRIOR SHANK

4. WEAR RESISTANCE

(H)EAVY DUTY, (S)TANDARD

5. BACK HEAD THREAD TYPE

23A	2 3/8" API
27A	2 7/8" API
34A	3 1/2" API
34B	3 1/2" BECO
44A	4 1/2" API

6. BACKHEAD / DRIVESUB THREAD OPTION

V	SINGLE / DOUBLE
W	DOUBLE / DOUBLE
X	TRIPLE / TRIPLE
Y	SINGLE / TRIPLE
Z	DOUBLE / TRIPLE

7. CUSTOM OPTION

C BACK HEAD CARBIDE

WARRIOR DTH BIT

PART TYPE KEY

1 2 3 4 5 6 7 8 9
QL6-064VS09A3SA

1. SHANK TYPE

QL6	6" QL Shank
QX4	4" QLX Shank
QL8	8" QL Shank
QL5	5" QL Shank
WA7	7" Shank

2. HEAD DIAMETER

054	5 1/2"
056	5 3/4"
064	6 1/2"
066	6 3/4"
070	7"
074	7 1/2"
080	8"
085	8 1/2"
090	9"

3. FACE DESIGN

CONVE(X), CONCA(V)E, (F)LAT

4. CARBIDE SHAPE

(S)PHERICAL, (B)ALLISTIC, (K) S/B, (L) B/S

5. GAGE CARBIDE COUNT

6. GAGE/FACE CARBIDE SIZE

(A) = 18/18	(B) = 18/16	(C) = 16/16
(D) = 16/14	(E) = 14/14	(F) = 14/13
(G) = 13/13	(H) = 13/12	(I) = 12/12

7. NUMBER OF FLUSHING HOLES

8. CARBIDE GRADE

(S)TANDARD, (P)REMIUM, (U)LTRA PREMIUM

9. SPECIAL FEATURE

A	Hard Body
B	Standard Body
C	Hard Body with Retractable Carbides

NOTES

This image shows a single sheet of white paper with horizontal blue or grey ruling lines. The lines are evenly spaced and run across the width of the page. In the top-left corner, there is a stylized, shaded graphic that resembles a folded piece of paper or a soft shadow, adding a three-dimensional effect to the otherwise flat surface. The rest of the page is completely blank, with no text or other markings.

NOTES

This image shows a blank sheet of white paper with horizontal ruling lines. The lines are evenly spaced and extend across the width of the page. In the bottom right corner, there is a decorative graphic element consisting of several overlapping, wavy, light gray shapes that resemble stylized hills or clouds. The overall appearance is clean and minimalist, typical of a notebook or a template for writing.

Terelion manufactures and services application specific drilling tools for the Mining and Construction industries. Our proprietary design capabilities, efficient manufacturing, and global sales force uniquely positions us to provide reliable drilling solutions faster than anyone else. We are a customer focused company with an innovative team conducting business in a responsible manner and a passion to win.

