

ROBIT® DTH WH TL HAMMER CATALOGUE

The New Robit® Tubeless DTH WH TL Hammer series for demanding blast hole and energy well drilling now available!



Robit
FURTHER. FASTER.



Robit WH4 TL

Further. Faster.

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Robit® DTH WH TL Hammer Series

The New Robit® Tubeless DTH WH TL Hammer series for demanding blast hole and energy well drilling now available!

Overview

The new tubeless range of high-performance Down the Hole hammers, designed to tackle applications where footvalve breakage can be a cause of downtime. Particularly recommended in ground conditions with high volumes of water or in soft unconsolidated ground where typical footvalve failures occur. Preferred by drillers in both blast hole and well drilling applications.

Key Features

- Tubeless hammer design eliminates the risk of operational downtime as no footvalve is required
- Choke system to allow adjustment of airflow to suit compressor and improve flushing on WH5 TL and WH6 TL
- Inner liner allows optimal air flow and provides improved performance when drilling in wet conditions
- Piston designed for improved strength and optimal performance

Drill bit compatibility

Hammers are compatible with following standard Robit shank drill bits:

4" Hammer

WH4 TL = TD40 shank with footvalve removed

WH4 TL = DHD340 shank with footvalve removed



5" Hammer

WH5 TL = QL50 shank with footvalve removed



6" Hammer

WH6 TL = QL60 shank with footvalve removed



WH4 TL TD40 2³/₈" API REG

Hammer 110 mm (4³/₈") - 127 mm (5") dia. Holes

The new highly dependable Robit WH4" TL (tubeless) hammer is designed for drilling 110 mm - 127 mm (4³/₈" to 5") diameter holes. The simple yet rugged design minimises the amount of components and overall length for ease of maintenance. For optimum performance the WH4" is most effective at medium to high air pressures ranging up to 35 bar (508 psi). It comes with industry standard 2³/₈" api reg. pin backhead and TD40 bit shank fitting with footvalve removed.

Component parts

Ref	Description	Part number
1	API 2 3/8" End cap	06M-29-0558
2	Backhead API 2 3/8" WH4	08-004-0545
3	4" Backhead O-ring 82,22 x 2,62	06M-00-0542
4	Check valve WH4	08-004-0552
5	Spring OD 21,5 x 100	06J-25-0544
6	Make-up ring 4" WH4	08-004-0555
7	Lock ring 4" WH4	08-004-0554
8	Air feed tube 4" WH4	08-004-0550
9	4" Air feed tube O-ring 50,16 x 5,33	06M-00-0541
10	Inner cylinder 4" WH4TL	2000405
11	Wear sleeve 4" WH4TL	2000406
12	Bit retaining ring 4" WH4 TD40	08-004-0546
13	Seating ring 4" WH4	08-004-0556
14	Piston 4" WH4TL	2000077
15	4" Seating ring O-Ring 66,4 x 1,78	06M-00-0543
16	Aligner 4" WH4TL TD40	2000078
17	Chuck 4" WH4 TD40	08-004-0547
18	Tapered plug	06M-29-0559
Complete Hammer		2000145

Air consumption

PSI	BAR	m ³ /min	ft ³ /min
100	6.9	2.83	100
150	10.3	5.38	190
200	13.8	7.79	275
250	17.2	9.20	370
300	20.7	10.48	470
350	24.2	15.86	560
400	27.6	18.41	650
450	31.0	20.95	740
500	34.5	23.50	830

Hammer specification

	Imperial	Metric
Weight (less bit)	101.6 lbs	46,1 kg
Length (less bit)	40.2"	1021 mm
Outside dia.	4.02"	102 mm
Piston weight	17.2 lbs	7,8 kg



WH4 TL DHD340 2³/₈" API REG

Hammer 110 mm (4³/₈") - 127 mm (5") dia. Holes

The new highly dependable Robit WH4" TL (tubeless) hammer is designed for drilling 110 mm - 127 mm (4³/₈" to 5") diameter holes. The simple yet rugged design minimises the amount of components and overall length for ease of maintenance. For optimum performance the WH4" is most effective at medium to high air pressures ranging up to 35 bar (508 psi). It comes with industry standard 2³/₈" api reg. pin backhead and DHD340 bit shank fitting with footvalve removed.

Component parts

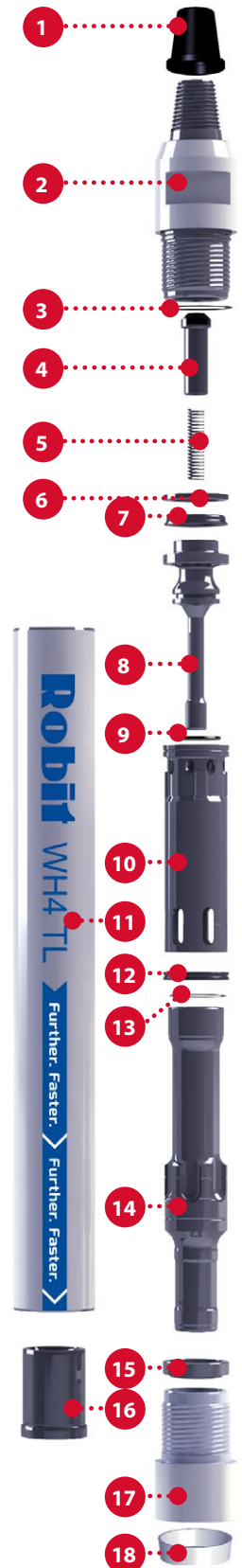
Ref	Description	Part number
1	API 2 3/8" End cap	06M-29-0558
2	Backhead API 2 3/8" WH4	08-004-0545
3	4" Backhead O-ring 82,22 x 2,62	06M-00-0542
4	Check valve WH4	08-004-0552
5	Spring OD 21,5 x 100	06J-25-0544
6	Make-up ring 4" WH4	08-004-0555
7	Lock ring 4" WH4	08-004-0554
8	Air feed tube 4" WH4	08-004-0550
9	4" Air feed tube O-ring 50,16 x 5,33	06M-00-0541
10	Inner cylinder 4" WH4TL	2000405
11	Wear sleeve 4" WH4TL	2000406
12	Bit retaining ring 4" WH4 DHD340	2001162
13	Seating ring 4" WH4	08-004-0556
14	Piston 4" WH4TL	2000077
15	4" Seating ring O-Ring 66,4 x 1,78	06M-00-0543
16	Aligner 4" WH4TL DHD340	2001156
17	Chuck 4" WH4 IR340	2001165
18	Tapered plug	06M-29-0559
Complete Hammer		2001167

Air consumption

PSI	BAR	m ³ /min	ft ³ /min
100	6.9	2.83	100
150	10.3	5.38	190
200	13.8	7.79	275
250	17.2	9.20	370
300	20.7	10.48	470
350	24.2	15.86	560
400	27.6	18.41	650
450	31.0	20.95	740
500	34.5	23.50	830

Hammer specification

	Imperial	Metric
Weight (less bit)	101.6 lbs	46,1 kg
Length (less bit)	40.2"	1021 mm
Outside dia.	4.02"	102 mm
Piston weight	17.2 lbs	7,8 kg



WH5 TL QL50 3 1/2" API REG

Hammer 140 mm (5 1/2") - 165 mm (6 1/2") dia. Holes

The new highly dependable Robit WH5"TL (tubeless) hammer is designed for drilling 140 mm - 165 mm (5 1/2" to 6 1/2") diameter holes. The simple yet rugged design minimises the amount of components and overall length for ease of maintenance. For optimum performance the WH5"TL is most effective at medium to high air pressures ranging up to 35 bar (508 psi). It comes with industry standard 3 1/2" api reg. pin backhead and QL50 bit shank fitting with footvalve removed.

Component parts

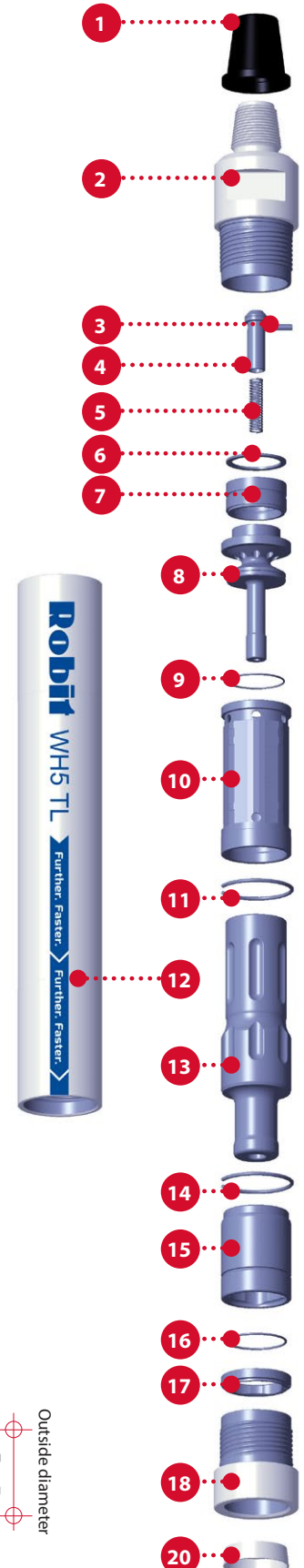
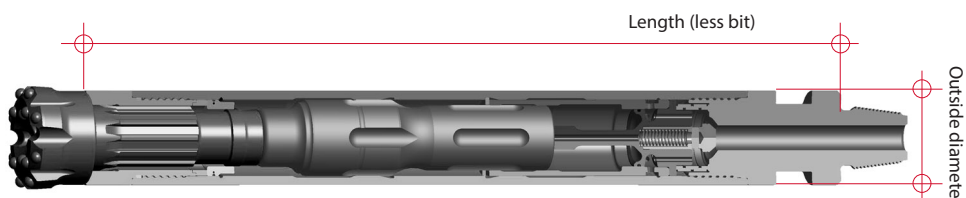
Ref	Description	Part number
1	Thread Protector API 3 1/2	201701
2	Back Head API 3 1/2	604558
3a	Check Valve Plug Blank	604480
3b	Check Valve Plug 1/8"	604481
3c	Check Valve Plug 3/16"	604482
4	Check Valve	604444
5	Check Valve Spring	760079
6a	Shim - 4.5mm	604446
6b	Shim - 5.0mm	604447
6c	Shim - 5.5mm	604448
7	Compression Spring	760109
8	Air Feed Tube	604442
9	O-Ring	768202
10	Inner Cylinder	605072
11	Retaining Ring	1107191
12	Wear sleeve	605073
13	Piston	605071
14	Snap Ring	783054
15	Guide Bush	605074
16	O Ring	1098892
17	Bit Retainer QL50	604933
18	Chuck QL50	604934
19	End Cap	741020
	Complete Hammer	1280584

Air consumption

PSI	BAR	m ³ /min	ft ³ /min
100	6.9	8.50	300
150	10.3	11.33	400
200	13.8	14.16	500
250	17.2	19.82	700
300	20.7	22.66	800
350	24.2	28.32	1000
400	27.6	31.15	1100
450	31.0	36.82	1300
500	34.5	39.65	1400

Hammer specification

	Imperial	Metric
Weight (less bit)	132.3 lbs	60.0 kg
Length (less bit)	41.5"	1053 mm
Outside dia.	4.96"	126 mm



WH6 TL QL60 3½" API REG

Hammer 152 mm (6") - 203 mm (8") dia. Holes

The new highly dependable Robit WH6"TL (tubeless) hammer is designed for drilling 152 mm - 203 mm (6" to 8") diameter holes. The simple yet rugged design minimises the amount of components and overall length for ease of maintenance. For optimum performance the WH6"TL is most effective at medium to high air pressures ranging up to 30 bar (435 psi). It comes with industry standard 3½"api reg. pin backhead and QL60 bit shank fitting with footvalve removed.

Component parts

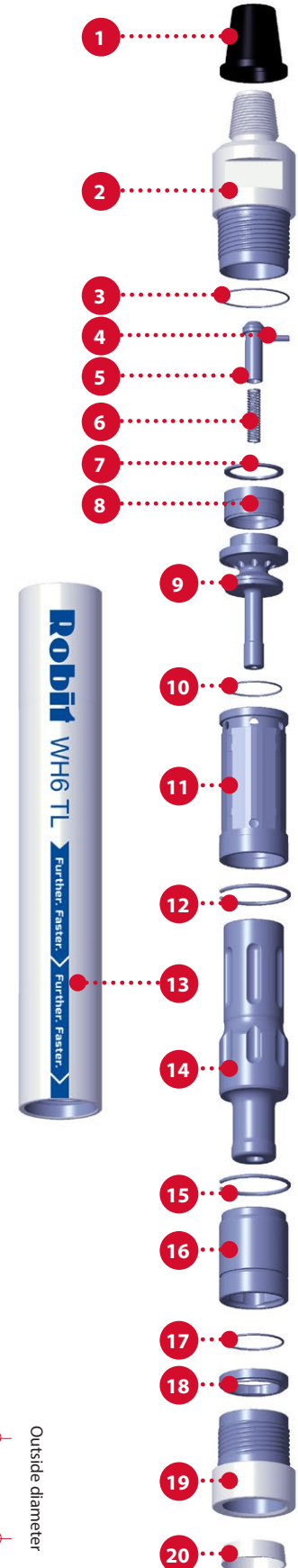
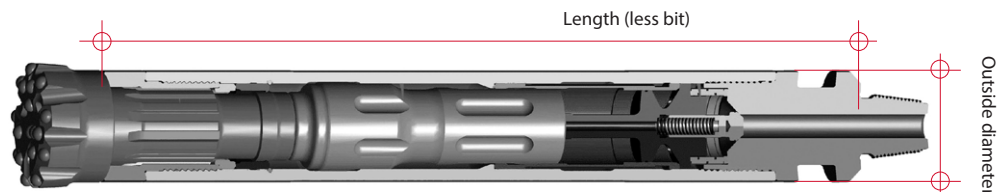
Ref	Description	Part number
1	Thread Protector Api 3 1/2	1099371
2	Top Adaptor	604521
3	O Ring	768140
4a	Check Valve Plug Blank	604480
4b	Check Valve Plug 1/8"	604481
4c	Check Valve Plug 3/16"	604482
5	Check Valve	604444
6	Check Valve Spring	760079
7a	Shim 4 mm	601946
7b	Shim 5 mm	601947
7c	Shim 6 mm	601948
7d	Shim 7 mm	601949
8	Compression Ring	760096
9	Air Feed Tube	604514
10	O Ring	768043
11	Inner Cylinder	604930
12	Retaining Ring	783056
13	Wear Sleeve	605066
14	Piston	605065
15	Retaining Ring	783056
16	Guide Bush	605067
17	O Ring	747105
18	Bit Retaining Ring	604693
19	Chuck QL60	604692
20	Top Cap	741042
Complete Hammer		1280585

Air consumption

PSI	BAR	m ³ /min	ft ³ /min
100	6.9	8.50	300
150	10.3	11.33	400
200	13.8	16.99	600
250	17.2	21.24	750
300	20.7	25.49	900
350	24.2	31.15	1100
400	27.6	35.40	1250
450	31.0	39.64	1400

Hammer specification

	Imperial	Metric
Weight (less bit)	220.0 lbs	100.0 kg
Length (less bit)	42.3"	1075 mm
Outside dia.	5.5"	140 mm





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