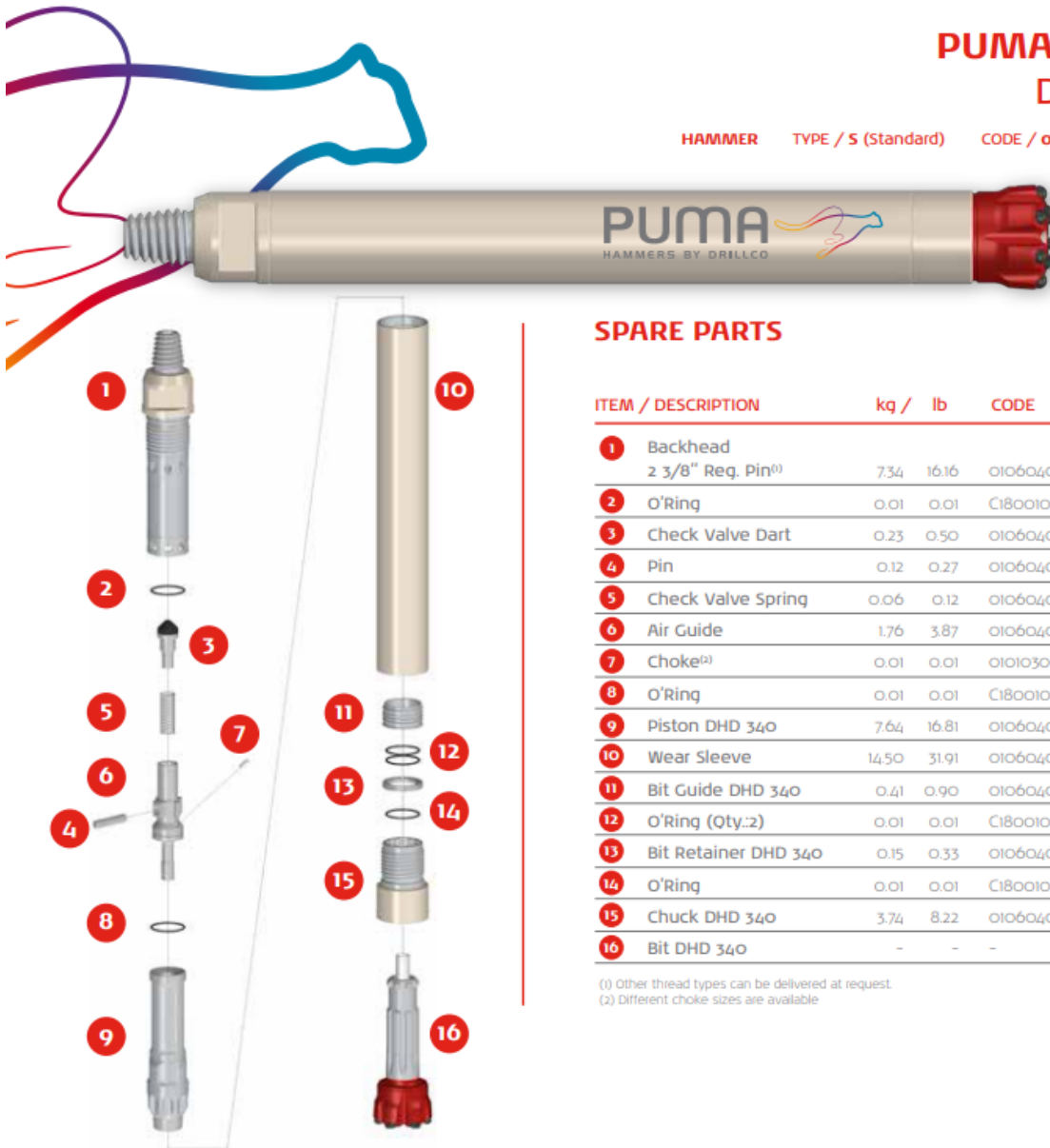


PUMA M4.1 Q
DHD 340

HAMMER **TYPE / S (Standard)** **CODE / 0006040-000005**



SPARE PARTS

ITEM / DESCRIPTION	kg /	lb	CODE
1 Backhead 2 3/8" Req. Pin ⁽¹⁾	7.34	16.16	0106040-010010
2 O'Ring	0.01	0.01	C180010-002235
3 Check Valve Dart	0.23	0.50	0106040-030003
4 Pin	0.12	0.27	0106040-200001
5 Check Valve Spring	0.06	0.12	0106040-050002
6 Air Guide	1.76	3.87	0106040-080004
7 Choke ⁽²⁾	0.01	0.01	0101030-040000
8 O'Ring	0.01	0.01	C180010-002226
9 Piston DHD 340	7.64	16.81	0106040-110005
10 Wear Sleeve	14.50	31.91	0106040-100003
11 Bit Guide DHD 340	0.41	0.90	0106040-130002
12 O'Ring (Qty.:2)	0.01	0.01	C180010-002232
13 Bit Retainer DHD 340	0.15	0.33	0106040-140000
14 O'Ring	0.01	0.01	C180010-002039
15 Chuck DHD 340	3.74	8.22	0106040-160004
16 Bit DHD 340	-	-	-

- (1) Other thread types can be delivered at request.
- (2) Different choke sizes are available

GENERAL DESCRIPTION

NET WEIGHT		OUTSIDE DIAMETER		HAMMER LENGTH		HAMMER LENGTH WITH BIT			
						CLOSED BIT		EXTENDED BIT	
kg	lb	mm	in	mm	in	mm	in	mm	in
36	80	100	3.93	843	33.2	932	36.7	966	38.0
AIR CONSUMPTION									
PRESSURE	psig	100	150	200	250	300	350	barg	
VOLUME	SCFM	155	250	350	445	545	640	m³/min	

GHB Ground Engineering AG
Schulstrasse 11
CH-6443 Morschach

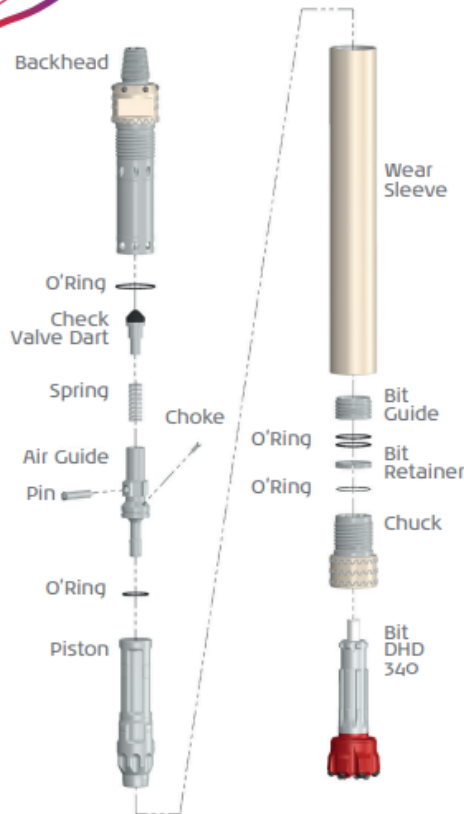
info@ghb.swiss
www.ghb.swiss

 **+41 (0) 41 852 01 84**
 **+41 (0) 41 852 01 85**

PUMA M4.1Q MAINTENANCE SHEET

DHD 340

EXPLODED VIEW



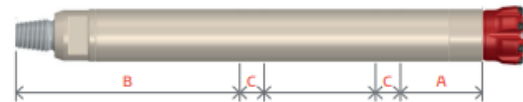
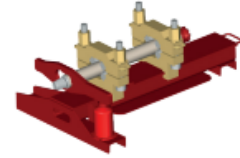
DISASSEMBLY

WARNING!

- Use hammer disassembly bench.
- Do not apply heat to any component
- Use wrenches in good condition
- Do not apply wrench on inserts
- Apply clamps on recommended areas

DISASSEMBLY SEQUENCE

- 1 Disassemble the hammer on the bit side
- 2 Extract the Chuck, Bit Retainer, Bit Guide and Bit
- 3 Rotate, and loosen the hammer at the backhead side.
- 5 Take out the Backhead and remove its O'Ring
- 6 Remove the Pin, Check valve, Spring, Air Guide, and its O'ring
- 7 Remove the Piston



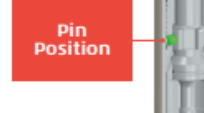
A Bit Side		B Back Head Side		C Clamp Location	
mm	inch	mm	inch	mm	inch
161	6.3	440	17.32	50-100	2.0 - 3.9

ASSEMBLY

WARNING!

- 1 All components must be in good operating conditions
- 2 Follow assembly sequence shown in drawing
- 3 Lubricate each component, before installation
- 4 Secure Pin position
- 5 Apply recommended Pre-torque

PRE-TORQUE	
ft-lb _i	kg-m
2500 - 2700	346 - 374



LUBRICATION

OIL GRADE SELECTION (cSt)

Work Pressure (barq)	TEMPERATURE		ISO GRADE
	Environment Air	Discharge air	
6.9 - 10.3	-20°C to 30°C	< 100°C	50 to 100
	Over 30°C	> 100°C	100 to 150
10.3 - 24.1	-20°C to 30°C	< 100°C	150 to 220
	Over 30°C	> 100°C	220 to 320

OIL CONSUMPTION (gal/h)

Drilling	WORK PRESSURE (barq)				
	10.3	13.8	17.2	20.7	24.1
Consumption	0,7	1,0	1,3	1,6	2,0

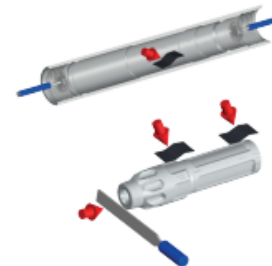
MAINTENANCE

STANDARD MAINTENANCE PROGRAM

OPERATION CONDITIONS	INSPECT EVERY:
• Stable, non abrasive ground • No water injection	200 (operating hours)
• Stable and abrasive ground • With or without water injection	100 (operating hours)
• Unstable and abrasive ground • With or without water injection	50 (operating hours)

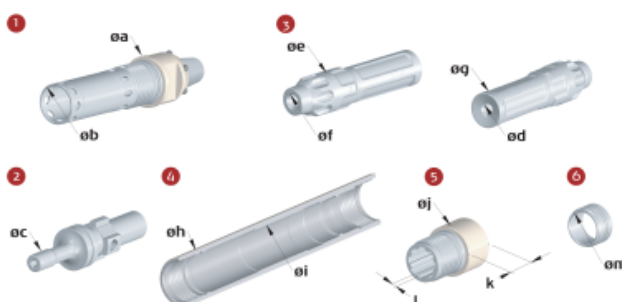
COMPONENT INSPECTION AND REPAIR.

All components must be washed thoroughly with appropriate solvent, eliminating all accumulated dirt. Use sand paper to smooth steel surfaces and friction marks, leaving all contact, sliding and threaded surfaces in good smooth condition.



DIMENSIONS LIMITS in (mm)

COMPONENT	DIMENSION	DHD 340
1 BACKHEAD	ø External	a 3.62" (92)
	ø Internal	b 2.759" (70.07)
	ø Flute	c 0.973" (24.72)
3 PISTON	ø Internal	d 0.991" (25.16)
	ø Outside body	e 3.129" (79.48)
	ø Internal Impact Zone	f 1.074" (27.27)
	ø Int. Body	g 2.745" (69.74)
	ø External	h 3.62" (92)
4 WEAR SLEEVE	ø Internal	i 3.141" (79.79)
	ø External	j 3.62" (92)
5 CHUCK	External Length	k 2.42" (61.5)
	Spline Width	l 0.15" (4)
	ø Internal	m 2.522" (64.07)



Check : 05/2018