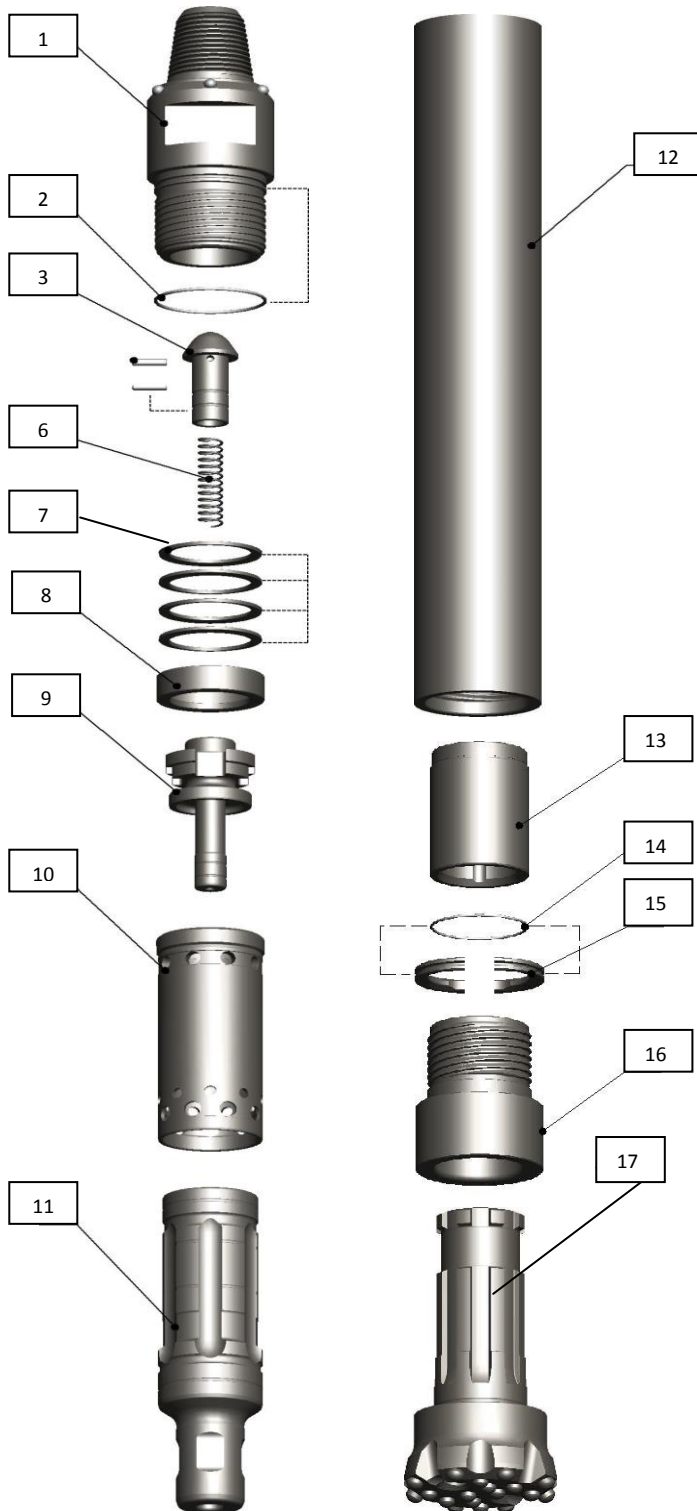


SD45B DTH Hammer – D340 Shank Drill Bit

1. Valve less DTH Hammer
2. D340 Shank Drill Bit (Without tube)
3. Top Sub Pin – 2 3/8" API Reg
4. Weight (Without Bit) 40 Kg
5. Length S/S, 940 mm
6. Outer Cylinder OD, 100 mm
7. Recommended Hole size
115mm (4 1/2") to 127mm (5")

Air Consumption			
150 psi	210 cfm	10.34 bar	5.94 M ³ /min
200 psi	270 cfm	13.78 bar	7.64 M ³ /min
250 psi	330 cfm	17.23 bar	9.34 M ³ /min
300 psi	400 cfm	20.68 bar	11.32 M ³ /min
350 psi	480 cfm	24.13 bar	13.59 M ³ /min



Item	Item Description	Part No.
1	Top Sub	D45B0101
2	O-Ring	F45B0201
3	Check Valve	D45B0501
4	Nylon Choke	D45B0601
5	Nylon Choke	D45B0602
6	C/V Spring	D45B0701
7	Disc Spring (4)	D45B0801
8	Disc Spring Holder	D45B0901
9	Air Distributor	F45B1101
10	Inner Cylinder	F45B1301
11	Piston	F45B1402
12	Piston Case (Outer Cylinder)	F45B0301
13	Guide Sleeve	F45B1701
14	O-Ring	F45B1801
15	Bit Retaining Ring	F45B1901
16	Drive Sub (Chuck)	F45B2001
17	Drill Bit	D340

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SD45B

High Pressure DTH Hammer D340

Specific recommendations

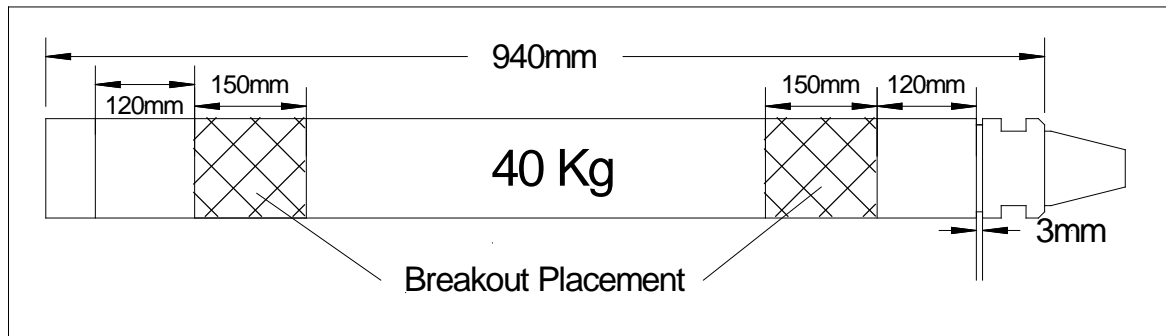
Lubrication; Use a recommended quality Rockdrill Oil, 320 Grade. At the rate of 200ml/100cfm/hr. Continuous inline injection

Rate/Hour	Lubrication as per air flow rate of consumption			
420 ml/hr	150 psi	210 cfm	10.34 bar	5.94 M ³ /min
540 ml/hr	200 psi	270 cfm	13.78 bar	7.64 M ³ /min
660 ml/hr	250 psi	330 cfm	17.58 bar	9.34 M ³ /min
800 ml/hr	300 psi	400 cfm	20.68 bar	11.32 M ³ /min
960 ml/hr	350 psi	480 cfm	24.13 bar	13.59 M ³ /min

Refer to general recommendations for use of injected drilling fluids, water and or foam.
 Increase rate of lubrication when using fluid injection, avoid contamination of the lubrication system.
 Use recommended quality tool joint grease for all threaded joints, top sub pin and drive sub male thread.
 Avoid grease contamination of the air system
 Refer to MSDS information for use of all material additives, oil, grease, drilling fluids.

Breakout placement;

Recommended to use a wraparound type breakout tool on all DTH Hammers



Make up; cylinder stand-off at top sub joint 3mm

Cylinder OD wear limit; recommended minimum OD limit **92mm**

Handling; weight without bit 40Kg. Not suitable for unassisted manual handling. Be aware of piston movement within the cylinder and bit to drive sub closure

Operating parameters;

Working air pressure; Delivered rig air capacity. Maximum operating pressure achieved with delivered volume. Refer air consumption chart.

Down feed weight; (Weight on bit) sufficient weight to close the bit to hammer drop with supplied air pressure.

Rotation speed. Adjusted to optimize penetration in varying ground conditions with varying size drill bits and carbide diameter and type. Suggested range 30 - 60 rpm.

Rotation torque; adjusted to required minimum torque to maintain required rotation speed when weight on bit is fixed to maintain hammer operation.

Recommended Minimum PPE for maintenance and handling

- Safety glasses
- Gloves
- Steel cap footwear
- Appropriate work clothing, long sleeve shirt and full leg pants
- Hearing protection and dust mask as required

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