



ROCKMORE
INTERNATIONAL
Rock Drilling Tools



3-1/2" API Reg Pin

DTH HAMMER

ROK 500-001

Recommended Bit Diameter
140 - 152mm [5.5 - 6.0 in]

Features:

- High Performance Design
- Integrated SonicFlow Technology
- Patent Pending Innovations
- Superior Penetration Rates
- Reduced Number of Components
- Easy Assembly / Maintenance
- Advanced Materials / Heat-Treatment
- Extended Service Life

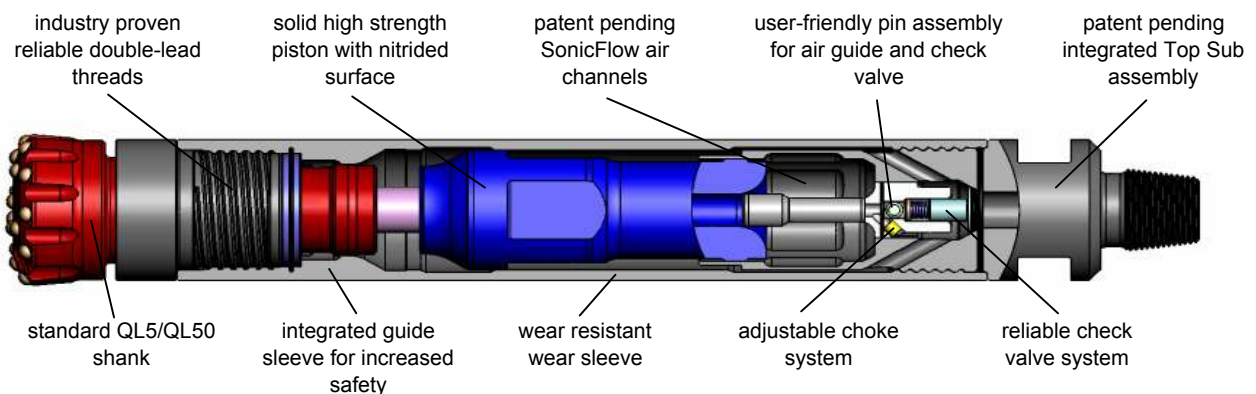
Applications:

- Mining / Blast Hole
- Construction / Quarry
- Water-Well

SonicFlow Technology greatly improves the air flow characteristics within the ROK hammer and ensures that the high pressure air paths are optimized to deliver greater energy to the piston. This is achieved by incorporating scientific air flow concepts in the design of the hammer and its various components such as the Top Sub, Piston, and Wear Sleeve. This technology results in more impact energy to the bit and produces higher penetration rates and better overall hammer performance.



Innovative Design Features



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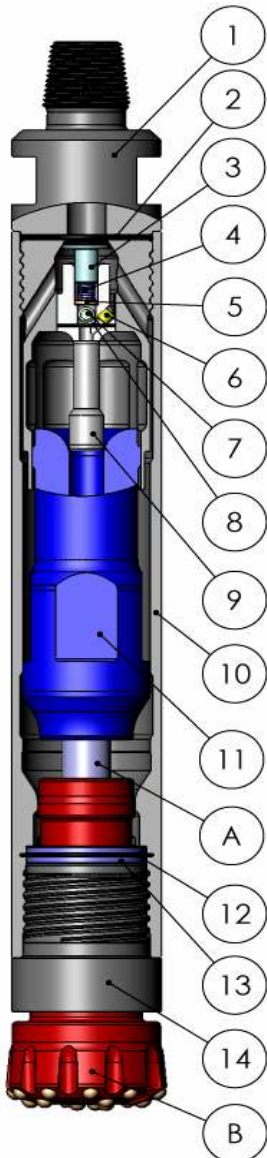
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Rev. 3-16-09

**Integrated SonicFlow
Technology**

ROK 500-001



Patent Pending

Parts List

Item	Part Number	Description
	ROK 500-001	DTH Hammer, 500, QL5/QL50, 3-1/2 in API Reg Pin
1	500TS-001	Top Sub, 3-1/2 in API Reg Pin
2	R2-342	O-Ring, 3.600 in X 0.210 in
3	CV-001	Check Valve
4	SP-001	Spring
5	SR-002	Spring Rest
6	CH-001	Choke
7	PN-003	Pin, 0.625 in Dia, 3.5 in L
8	R2-135	O-Ring, 1.925 in X 0.103 in
9	AG-001	Air Guide
10	500WS-001	Wear Sleeve
11	PT-002	Piston
A	BTQL5-1013	QL5/QL50 Blow Tube
12	R2-234	O-Ring, 2.984 in X 0.139 in
13	BR-002	Bit Retainer Ring
14	500DS-001	Driver Sub
B	DTH Bit	QL5/QL50 Shank

Operating Parameters

Air Pressure	Air Consumption
10.4 Bar [150 PSI]	8.5 m ³ /min [309 SCFM]
17.2 Bar [250 PSI]	18.3 m ³ /min [663 SCFM]
24.1 Bar [350 PSI]	28.6 m ³ /min [1038 SCFM]
Oil consumption at 24.1 Bar (350 PSI):	0.5 l/hr [0.13 gallon/hr]
Recommended rotation speed:	20 r/min to 70 r/min
Minimum diameter difference between wear sleeve and bit:	10 mm [0.39 in]

Technical Specifications

Standard Top Sub	3-1/2" API Reg Pin
Bit shank type	QL5/QL50
Recommended bit diameter, mm [in]	140 to 152 [5.5 to 6.0]
Outside diameter, mm [in]	125 [4.9]
Wear sleeve discard diameter, mm [in]	109 [4.3]
Wrench flat size on Top Sub, mm [in]	95 [3.7]
Length without drill bit, mm [in]	1028 [40.5]
Weight without drill bit, kg [lbs]	60.3 [132.9]

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