



ROCKMORE
INTERNATIONAL
Rock Drilling Tools



QL5/QL50 Bit Shank
Lower Air Consumption

DTH HAMMER

ROK 550A

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



Features:

- Ultra High Performance Design
- Lower Air Consumption
- Higher Efficiency
- Integrated SonicFlow Technology
- Patented Innovations
- Superior Penetration Rates
- Reduced Number of Components
- Easy Assembly / Maintenance
- Advanced Materials / Heat-Treatment
- Extended Service Life

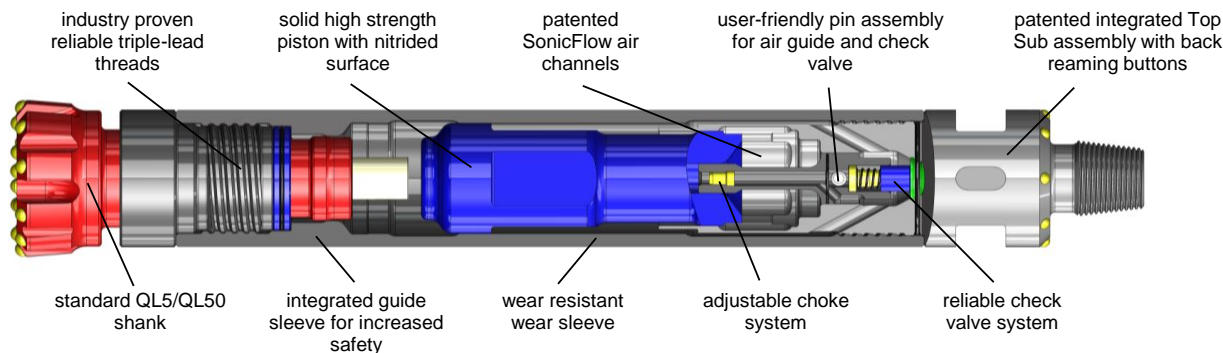
Applications:

- Mining / Blast Hole
- Construction / Quarry
- Water-Well
- Environmental
- Exploration
- Geothermal

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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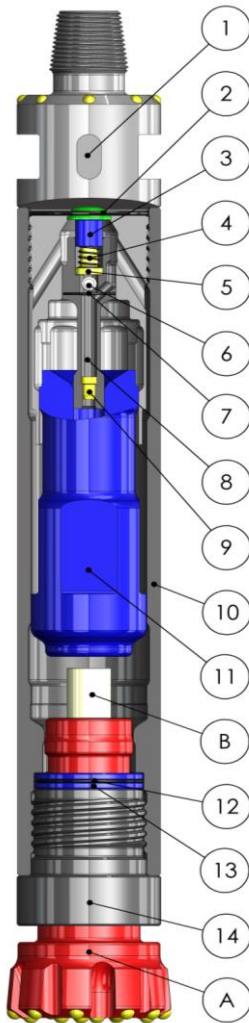


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**Integrated SonicFlow
Technology**

ROK 550A



Parts List

Item	Part Number	Description
1	ROK550A-001 500TS-011 *	DTH Hammer, 550A, QL5/QL50, 3-1/2" API Reg Pin Top Sub, 3-1/2" API Reg Pin
1	ROK550A-002 500TS-012*	DTH Hammer, 550A, QL5/QL50, 3-1/2" API Reg Pin Top Sub, 3-1/2" API Reg Pin with Back Reaming Buttons
1	ROK550A-003 500TS-016 *	DTH Hammer, 550A, QL5/QL50, 2-3/8" API Reg Pin Top Sub, 2-3/8" API Reg Pin
1	ROK550A-004 500TS-017 *	DTH Hammer, 550A, QL5/QL50, 2-3/8" API Reg Pin Top Sub, 2-3/8" API Reg Pin with Back Reaming Buttons
1	ROK550A-005 500TS-018 *	DTH Hammer, 550A, QL5/QL50, 2-7/8" API Reg Pin Top Sub, 2-7/8" API Reg Pin
1	ROK550A-006 500TS-019 *	DTH Hammer, 550A, QL5/QL50, 2-7/8" API Reg Pin Top Sub, 2-7/8" API Reg Pin with Back Reaming Buttons
1	ROK550A-008 500TS-021 *	DTH Hammer, 550A, QL5/QL50, Cubex #24 Pin with Spline Top Sub, Cubex #24 Pin with Spline
2	R2-342	O-Ring, 3.600" X 0.210"
3	CV-001	Check Valve
4	SP-001	Spring
5	SR-002	Spring Rest
6	PN-003	Pin, 0.625" Dia, 3.5" L
7	R2-135	O-Ring, 1.925" X 0.103"
8	AG-001	Air Guide - <i>includes o-ring and choke</i>
9	CH-005	Blank Choke, Nylon
10	500WS-008	Wear Sleeve
11	PT-029	Piston
B	BTQL5-1013	QL5/QL50 Blow Tube
12	R2-234	O-Ring, 2.984" X 0.139"
13	BR-014	Bit Retainer Ring - <i>includes o-ring</i>
14	500DS-005	Driver Sub
A	DTH Bit	QL5/QL50 Shank
	CHSET-002	Choke Set, Nylon, 1 each of CH-005 - 0" (0mm), CH-006 - 1/16" (2mm), CH-007 - 1/8" (3mm), CH-008 - 3/16" (5mm)

* Includes o-ring

Operating Parameters

Air Pressure	Air Consumption
10.4 Bar [150 PSI]	5.5 m ³ /min [193 SCFM]
17.2 Bar [250 PSI]	14.4 m ³ /min [508 SCFM]
24.1 Bar [350 PSI]	23.7 m ³ /min [837 SCFM]

Oil consumption: 0.2 l/hr per 3.0 m³/min [1/3 pint/hr per 100 cfm]

Recommended rotation speed: 20 r/min to 70 r/min

Minimum diameter difference between wear sleeve and bit: 10 mm [0.39"]

Technical Specifications

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]	89 [3.5]
Effective Length without drill bit, mm [in]	919 [36.2] - <i>only for ROK550A-001</i>
Weight without drill bit, kg [lbs]	60.3 [132.9] - <i>only for ROK550A-001</i>

Patented

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