



**ROCKMORE**  
INTERNATIONAL  
Rock Drilling Tools



3-1/2" API Reg Pin  
Water-Well Applications

**DTH HAMMER**

**ROK 600W-001**

Recommended Bit Diameter  
155 - 178mm [6.1 - 7.0 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

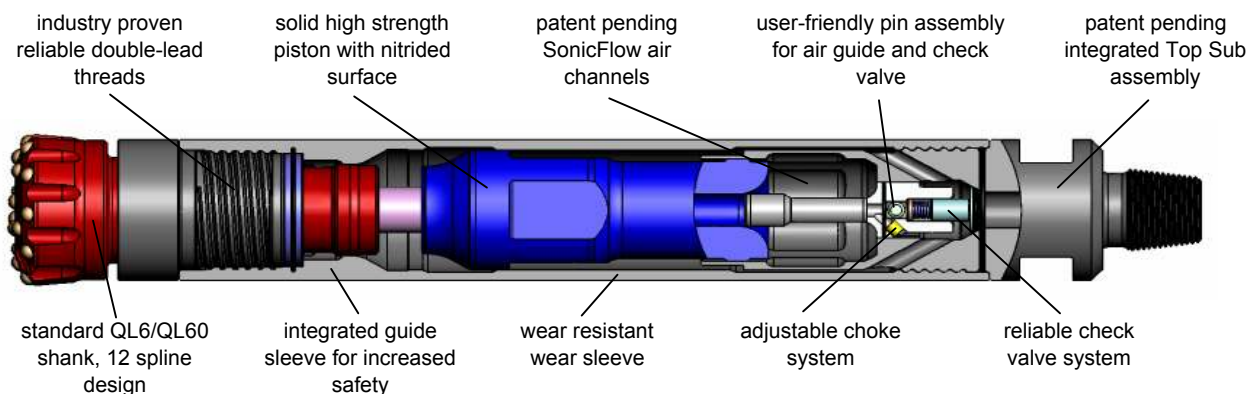
**Applications:**

- Water-Well
- 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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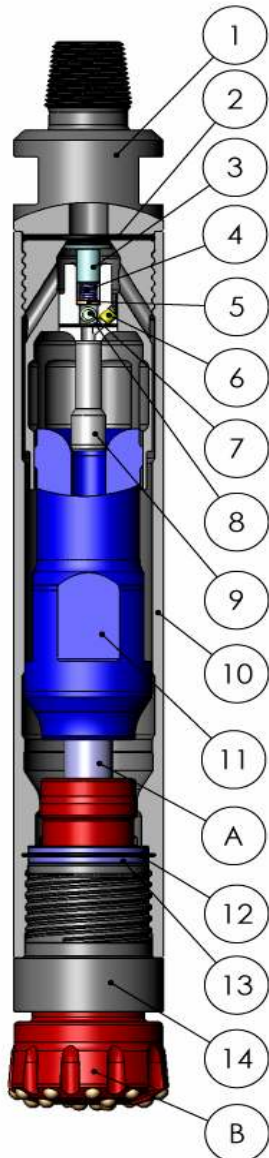
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**Integrated SonicFlow  
Technology**

## ROK 600W-001



Patent Pending

### Parts List

Item	Part Number	Description
	ROK 600W-001	DTH Hammer, 600W, QL6/QL60, 3-1/2 in API Reg Pin
1	600TS-001	Top Sub, 3-1/2 in API Reg Pin
2	R2-349	O-Ring, 4.475 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-001	Pin, 0.625 in Dia, 4.5 in L
8	R2-135	O-Ring, 1.925 in X 0.103 in
9	AG-001	Air Guide
10	600WS-002	Wear Sleeve, with Integrated Guide Sleeve
11	PT-005	Piston
A	BTQL6-1014	QL6/QL60 Blow Tube
12	R2-236	O-Ring, 3.234 in X 0.139 in
13	BR-001	Bit Retainer Ring
14	600DS-001	Driver Sub
B	DTH Bit	QL6/QL60 Shank

### Operating Parameters

Air Pressure	Air Consumption
8.3 Bar [120 PSI]	12.5 m <sup>3</sup> /min [441 SCFM]
15.2 Bar [220 PSI]	21.0 m <sup>3</sup> /min [742 SCFM]
22.8 Bar [330 PSI]	31.3 m <sup>3</sup> /min [1105 SCFM]
Oil consumption at 22.8 Bar (330 PSI):	0.7 l/hr [0.2 gallon/hr]
Recommended rotation speed:	15 r/min to 60 r/min
Minimum diameter difference between wear sleeve and bit:	12 mm [0.47 in]

### Technical Specifications

Standard Top Sub	3-1/2" API Reg Pin
Bit shank type	QL6/QL60
Recommended bit diameter, mm [in]	155 to 178 [6.1 to 7.0]
Outside diameter, mm [in]	141.5 [5.6]
Wear sleeve discard diameter, mm [in]	130 [5.1]
Wrench flat size on Top Sub, mm [in]	95 [3.7]
Length without drill bit, mm [in]	1013 [39.9]
Weight without drill bit, kg [lbs]	76 [168.0]

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