

3-1/2" BECO Pin
Top Sub With Back Reaming Buttons
Heavy Duty Diameter
Lower Air Consumption

DTH HAMMER

ROK 650A-009

Recommended Bit Diameter
165 - 178mm [6.5" - 7.0"]



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

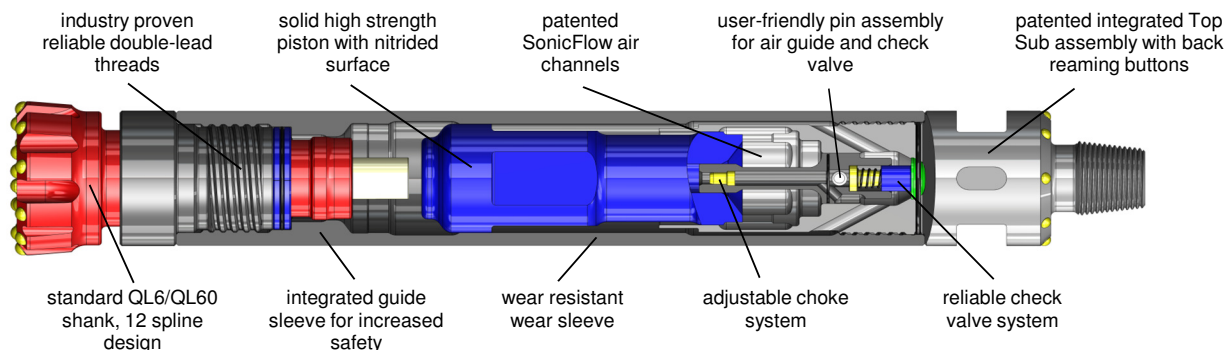
SonicFlow Technology greatly improves the air flow characteristics within the ROK hammer and ensures that the high pressure air paths are optimized to deliver greater energy to the piston. This is achieved by incorporating scientific air flow concepts in the design of the hammer and its various components 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.



Applications:

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

Innovative Design Features



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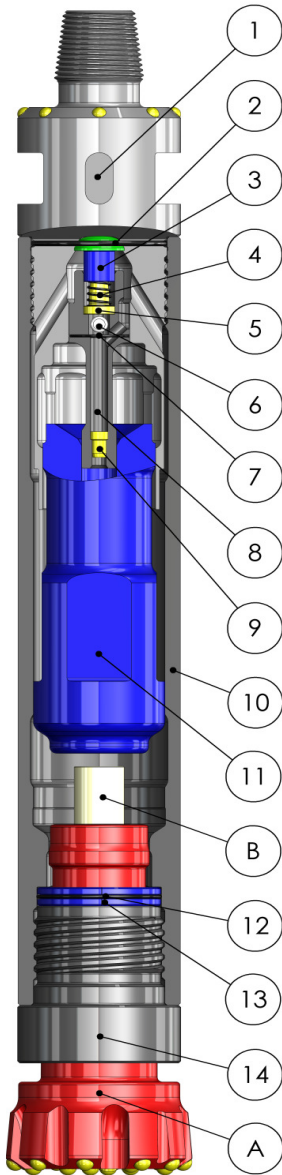
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Rev. 10-28-19

**Integrated SonicFlow
Technology**

ROK 650A-009



Patented

Parts List

| Item | Part Number | Description |
|------|--------------|---|
| | ROK 650A-009 | DTH Hammer, 650A, QL6/QL60, 3-1/2" BECO Pin |
| 1 | 650TS-008 | Top Sub, 3-1/2" BECO Pin with Back Reaming Buttons |
| 2 | R2-349 | O-Ring, 4.475" X 0.210" |
| 3 | CV-001 | Check Valve |
| 4 | SP-001 | Spring |
| 5 | SR-002 | Spring Rest |
| 6 | PN-001 | Pin, 0.625" Dia, 4.5" L |
| 7 | R2-135 | O-Ring, 1.925" X 0.103" |
| 8 | AG-001 | Air Guide |
| 9 | CH-005 | Choke, Nylon |
| 10 | 650AWS-001 | Wear Sleeve |
| 11 | PT-014 | Piston |
| B | BTQL6-1014 | QL6/QL60 Blow Tube |
| 12 | R2-236 | O-Ring, 3.234" X 0.139" |
| 13 | BR-001 | Bit Retainer Ring |
| 14 | 650DS-001 | Driver Sub |
| A | DTH Bit | QL6/QL60 Shank |
| | CHSET-002 | Choke Set, Nylon, 1 each of CH-006 - 1/16" (2mm), CH-007 - 1/8" (3mm), CH-008 - 3/16" (5mm) |

Operating Parameters

| Air Pressure | Air Consumption |
|--|--------------------------|
| 10.4 Bar [150 PSI] | 7.4 m3/min [269 SCFM] |
| 17.2 Bar [250 PSI] | 16.7 m3/min [606 SCFM] |
| 24.1 Bar [350 PSI] | 26.5 m3/min [962 SCFM] |
| Oil consumption at 24.1 Bar (350 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"] |

Technical Specifications

| | |
|---------------------------------------|-------------------------|
| Standard Top Sub | 3-1/2" BECO Pin |
| Bit shank type | QL6/QL60 |
| Recommended bit diameter, mm [in] | 165 to 178 [6.5 to 7.0] |
| Outside diameter, mm [in] | 149 [5.9] |
| Wear sleeve discard diameter, mm [in] | 129 [5.1] |
| Wrench flat size on Top Sub, mm [in] | 95 [3.74] |
| Length without drill bit, mm [in] | 1038 [40.9] |
| Weight without drill bit, kg [lbs] | 88 [194.0] |

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