



**ROCKMORE**  
INTERNATIONAL  
Rock Drilling Tools



**X TUBELESS X**

**DTH HAMMER**

**ROK 550T**

QL5/QL50 Bit Shank  
Tubeless (Bit without Blow Tube)

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

TUBELESS DESIGN (UTILIZES BIT WITHOUT BLOW TUBE / FOOT VALVE)

**Features:**

- Ultra High Performance Design
- Tubeless (utilizes Bit without Blow Tube / Foot Valve), eliminating breakage of plastic parts
- Operates With Standard QL5/QL50 Shank Design Without Blow Tube / Foot Valve
- High Efficiency Against Large Volumes of Water
- Integrated SonicFlow Technology
- Patented Innovations
- Superior Penetration Rates
- Reduced Number of Components
- Easy Assembly / Maintenance
- Advanced Materials / Heat-Treatment
- Extended Service Life



**Standard QL5/QL50 Bit shank without Blow Tube / Foot Valve**

Rockmore's ROK 550T DTH hammer utilizes a bit without a plastic blow tube / foot valve. The corresponding QL5T bit shank operates with no blow tube / foot valve. To operate the hammer with a standard QL5/QL50 bit shank, simply remove the blow tube / foot valve.

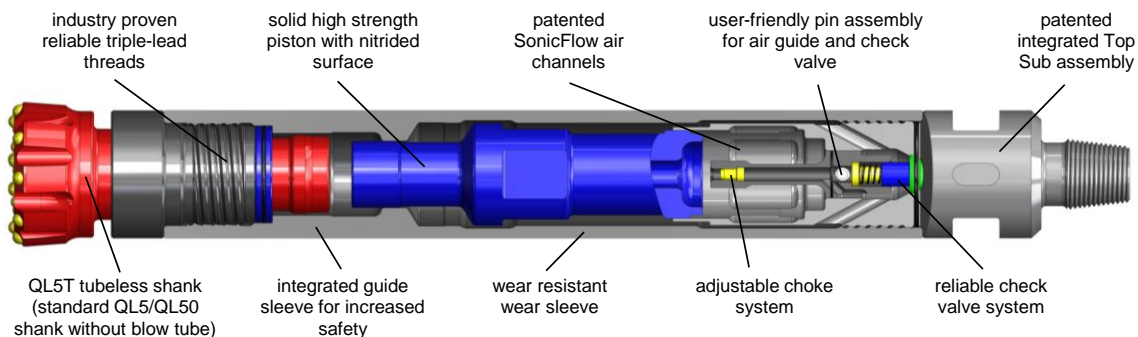
**SonicFlow Technology** greatly improves the air flow characteristics within the ROK hammer and ensures that the high pressure air paths are optimized to deliver greater energy to the piston. This is achieved by incorporating scientific air flow concepts in the design of the hammer and its various components 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
- Environmental
- Construction / Quarry
- Exploration
- Water-Well
- Geothermal

**Innovative Design Features**



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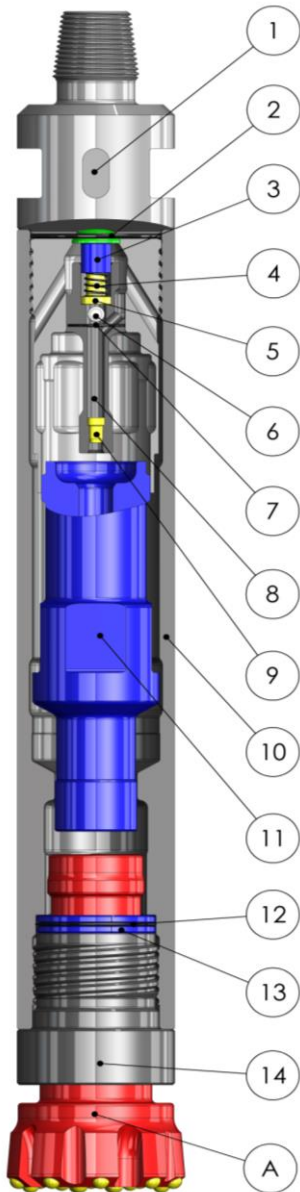
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**SONICFLOW**

**Integrated SonicFlow  
Technology**

# ROK 550T



Patented

## Parts List

| Item | Part Number | Description                                                                                                    |
|------|-------------|----------------------------------------------------------------------------------------------------------------|
|      | ROK550T-001 | DTH Hammer, 550T, QL5T, 3-1/2" API Reg Pin, Tubeless (Bit without Blow Tube / Foot Valve)                      |
| 1    | 500TS-011   | Top Sub, 3-1/2" API Reg Pin - <i>includes o-ring</i>                                                           |
| 2    | R2-342      | O-Ring, 3.600" X 0.210"                                                                                        |
| 3    | CV-002      | Check Valve, Rubber                                                                                            |
| 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-006   | Wear Sleeve                                                                                                    |
| 11   | PT-028      | Piston                                                                                                         |
| 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     | QL5T Tubeless Shank (Standard QL5/QL50 without blow tube)                                                      |
|      | 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) |

## Operating Parameters

| Air Pressure                                             | Air Consumption                                   |
|----------------------------------------------------------|---------------------------------------------------|
| 10.4 Bar [150 PSI]                                       | 7.3 m3/min [259 SCFM]                             |
| 17.2 Bar [250 PSI]                                       | 16.6 m3/min [587 SCFM]                            |
| 24.1 Bar [350 PSI]                                       | 25.2 m3/min [890 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                              | QL5T Tubeless Shank<br>(QL5/QL50 without Blow Tube / Foot Valve) |
| 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] | 953 [37.5]                                                       |
| Weight without drill bit, kg [lbs]          | 64.9 [143.0]                                                     |

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