



ROCKMORE
INTERNATIONAL
Rock Drilling Tools



Cubex #21 Pin with Splines

DTH HAMMER

ROK 300-003

Recommended Bit Diameter
88 - 105mm [3.5" - 4.1"]



Features:

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

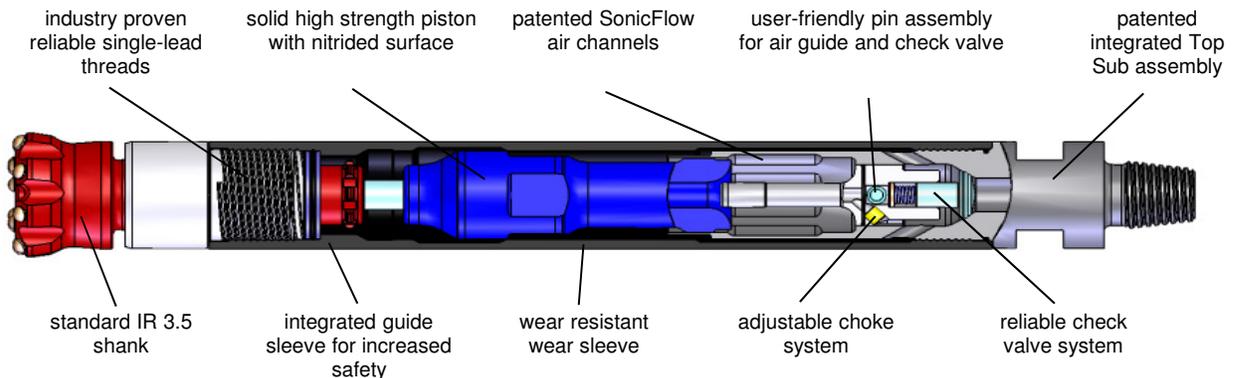
Applications:

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

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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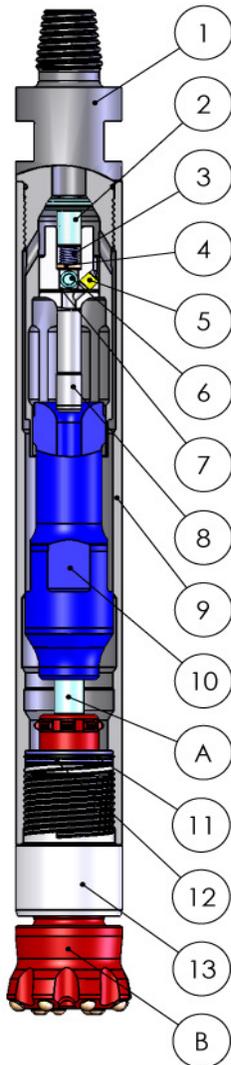


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**Integrated SonicFlow
Technology**

ROK 300-003



Patented

Parts List

Item	Part Number	Description
	ROK 300-003	DTH Hammer, 300, IR 3.5, Cubex #21 Pin with Splines
1	300TS-003	Top Sub, Cubex #21 Pin with Splines
2	CV-004	Check Valve
3	SP-001	Spring
4	SR-002	Spring Rest
5	CH-005	Choke, Nylon
6	PN-006	Pin, 0.625" Dia, 2.40" L
7	R2-127	O-Ring, 1.424" X 0.103"
8	AG-004	Air Guide
9	300WS-001	Wear Sleeve
10	PT-009	Piston
A	BTIR35HD-1018	IR 3.5HD Blow Tube
11	R2-135	O-Ring, 1.925" X 0.103"
12	BR-007	Bit Retainer Ring
13	300DS-001	Driver Sub
B	DTH Bit	IR 3.5 Shank

Operating Parameters

Air Pressure	Air Consumption
10.4 Bar [150 PSI]	4.1 m ³ /min [145 SCFM]
17.2 Bar [250 PSI]	5.6 m ³ /min [199 SCFM]
24.1 Bar [350 PSI]	9.0 m ³ /min [318 SCFM]
Oil consumption at 24.1 Bar (350 PSI):	0.3 l/hr [0.08 gallon/hr]
Recommended rotation speed:	35 r/min to 95 r/min
Minimum diameter difference between wear sleeve and bit:	10 mm [0.39"]

Technical Specifications

Standard Top Sub	Cubex #21 Pin with Splines
Bit shank type	IR 3.5
Recommended bit diameter, mm [in]	88 to 105 [3.5 to 4.1]
Outside diameter, mm [in]	78 [3.1]
Wear sleeve discard diameter, mm [in]	71 [2.8]
Wrench flat size on Top Sub, mm [in]	64 [2.5]
Length without drill bit, mm [in]	818 [32.2]
Weight without drill bit, kg [lbs]	20.9 [46.0]

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