



**ROCKMORE**  
INTERNATIONAL  
Rock Drilling Tools



IR 340A Bit Shank  
Heavy Duty Wear Sleeve

**DTH HAMMER**

**ROK 400 HD**

**Recommended Bit Diameter**  
127 - 140mm [5.0" - 5.5"]



**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

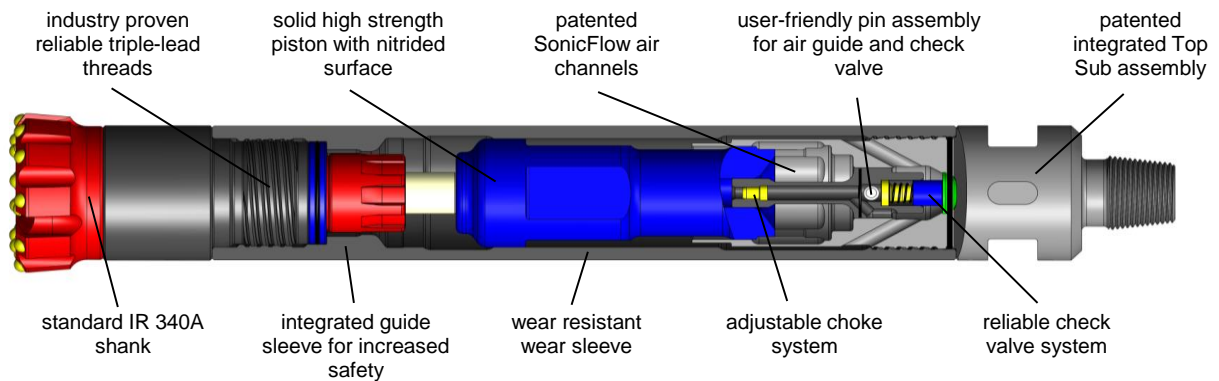
**Applications:**

- 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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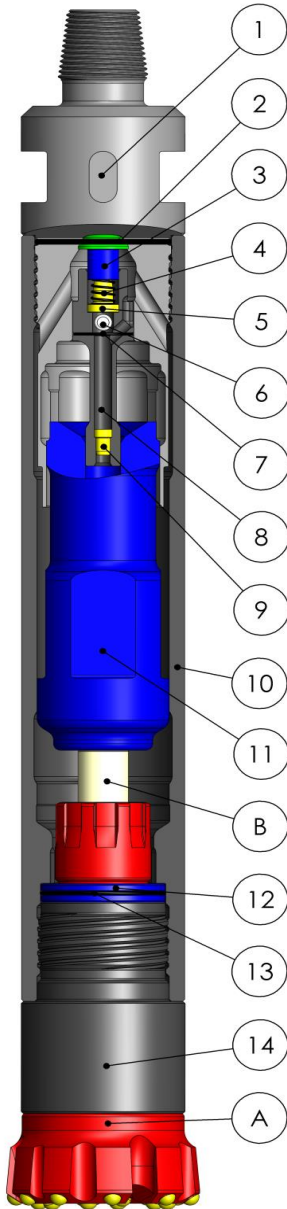


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**Integrated SonicFlow  
Technology**

## ROK 400 HD



Patented

### Parts List

Item	Part Number	Description
1	ROK400-006 400TS-004	DTH Hammer, 400, 340A, 2-3/8" API IF Pin, HD Wear Sleeve Top Sub, 2-3/8" API IF Pin - <i>includes o-ring</i>
1	ROK400-011 400TS-001	DTH Hammer, 400, 340A, 2-3/8" API Reg Pin, HD Wear Sleeve Top Sub, 2-3/8" API Reg Pin - <i>includes o-ring</i>
2	R2-234	O-Ring, 2.984" X 0.139"
3	CV-001	Check Valve
4	SP-001	Spring
5	SR-002	Spring Rest
6	PN-002	Pin, 0.625" Dia, 3.0" L
7	R2-135	O-Ring, 1.925" X 0.103"
8	AG-002	Air Guide - <i>includes o-ring and choke</i>
9	CH-005	Blank Choke, Nylon
10	400WS-091	Wear Sleeve, Heavy Duty
11	PT-003	Piston
B	BT340A-1003	IR 340A Blow Tube
12	R2-229	O-Ring, 2.359" X 0.139"
13	BR-003	Bit Retainer Ring - <i>includes o-ring</i>
14	400DS-001	Driver Sub
A	DTH Bit	IR 340A 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)

### Operating Parameters

Air Pressure	Air Consumption
10.4 Bar [150 PSI]	5.8 m3/min [210 SCFM]
17.2 Bar [250 PSI]	10.4 m3/min [378 SCFM]
24.1 Bar [350 PSI]	15.3 m3/min [556 SCFM]
Oil consumption:	0.2 l/hr per 3.0 m3/min [1/3 pint/hr per 100 cfm]
Recommended rotation speed:	25 r/min to 80 r/min
Minimum diameter difference between wear sleeve and bit:	10 mm [0.39"]

### Technical Specifications

Bit shank type	IR 340A
Recommended bit diameter, mm [in]	127 to 140 [5.0 to 5.5]
Outside diameter, mm [in]	115 [4.5]
Wear sleeve discard diameter, mm [in]	89 [3.5]
Wrench flat size on Top Sub, mm [in]	64 [2.5]
Effective Length without drill bit, mm [in]	823 [32.4]
Weight without drill bit, kg [lbs]	48.5 [107.0]

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