

# SECOROC KARISHMA DOWN THE HOLE HAMMER

Designed specially for Water Well applications

*Atlas Copco*



Karishma series of valveless hammers are specially designed for heavy duty Water Well applications. These hammers are the perfect blend of productivity, endurance and efficiency.

## KEY FEATURES

- State of the art technology
- High performance, superior productivity
- Faster penetration
- Better fuel economy

## TECHNICAL DATA

DIMENSIONS AND WEIGHTS	K4 V3 HAMMER (93010075)		K 5.5 HAMMER (93010030)		K6 V2 HAMMER (93010083)	
	METRIC	IMPERIAL	METRIC	IMPERIAL	METRIC	IMPERIAL
Length without drill bit	1049 mm	41.3"	1086 mm	42.8"	1014 mm	39.9"
Length excl. thread	973 mm	38.3"	998 mm	39.3"	925 mm	36.4"
Outside diameter	107 mm	4.2"	140 mm	5.5"	149.5 mm	5.9"
Piston diameter	87.9 mm	3.46"	118.9 mm	4.68"	125 mm	4.92"
Piston weight	9.3 kg	20.5 lbs	18.5 kg	40.8 lbs	19.5 kg	43 lbs
Stroke	102 mm (@ 14 bar)	4" (@ 203 psi)	86.5 mm (@ 21 bar)	3.41" (@ 300 psi)	94 mm (@ 23.5 bar)	3.7" (@ 330 psi)
Backhead thread	60.3 mm IF	2 3/8" API Reg	73 mm IF	2 7/8" IF	73 mm IF	2 7/8" IF
Weight without drill bit	46.1 kg	101.6 lbs	75.4 kg	166.2 lbs	89 kg	196.2 lbs
Wrench grip on backhead	74.5 mm	2.93"	90 mm	3.5"	90 mm	3.5"
DRILLING PARAMETERS	METRIC	IMPERIAL	METRIC	IMPERIAL	METRIC	IMPERIAL
Working pressure	10.5 - 17 bar	150 - 250 psi	10.5 - 25 bar	150 - 360 psi	21 - 27.6 bar	300 - 400 psi
Rotation speed	30 - 45 r/min		30 - 45 r/min		30 - 45 r/min	
Feed force	1 - 2 tons		1.5 - 3 tons		1.5 - 3 tons	
Recommended bit size	121 - 125 mm	4 3/4 - 4.9"	152 - 165 mm	6 - 6.5"	165 - 216 mm	6.5 - 8.5"
Bit shank style	K4 Shank		Q5N Shank		K7 Shank	
AIR CONSUMPTION AT DIFFERENT WORKING PRESSURES	L/S	CFM	L/S	CFM	L/S	CFM
10.5 bar (150 psi)	104	220	---	---	---	---
16 bar (230 psi)	180	382	279	591	241	510
20 bar (290 psi)	240	508	368	779	344	730
25 bar (360 psi)	320	678	486	1029	452	957
30 bar (435 psi) (estimated)	400	847	611	1295	535	1133
IMPACT RATE OR FREQUENCY	BPM	HZ	BPM	HZ	BPM	HZ
10.5 bar (150 psi)	1260	21.5	---	---	---	---
16 bar (230 psi)	1542	26.2	1576.4	26.2	1578.4	26.3
20 bar (290 psi)	1710	29	1724.4	28.7	1733.8	28.8
25 bar (360 psi)	1893	32	1884.7	31.4	1908.2	31.8
30 bar (435 psi) (estimated)	1932	32.7	2017.3	33.62	2060.4	34.34

## COMMITTED TO SUSTAINABLE PRODUCTIVITY

We stand by our responsibilities towards our customers, towards the environment and the people around us. We make performance stand the test of time. This is what we call – Sustainable Productivity.

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