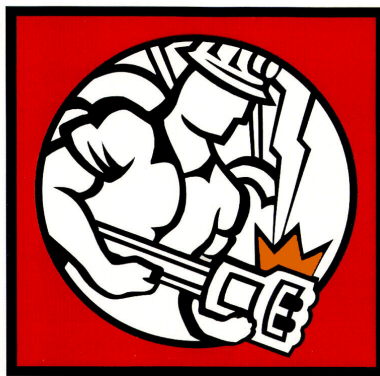


2020  
DTH PRODUCT HANDBOOK



**R O C K M O R E**  
**I N T E R N A T I O N A L**

*Rock Drilling Tools*

For all your rock drilling tool needs contact  
**ROCKMORE INTERNATIONAL**



USA

Phone: 503-682-1001  
Fax: 503-682-1002  
E-mail: [info@rockmore-intl.com](mailto:info@rockmore-intl.com)

10065 SW Commerce Circle  
Wilsonville, OR 97070, USA

AUSTRIA

Phone: 43-3572-86300  
Fax: 43-3572-84179  
E-mail: [austria@rockmore-intl.at](mailto:austria@rockmore-intl.at)

Collini - Strasse 2  
A-8750 Judenburg, Austria



[www.rockmore-intl.com](http://www.rockmore-intl.com)



## TABLE OF CONTENTS

	<u>PAGE</u>
Bit Face Selection .....	1
Carbide Selection .....	1
Down-the-Hole (DTH) Bits .....	2
Carbide Button Grinding Accessories .....	16
Down-the-Hole (DTH) Hammers .....	17
DTH Hammer Rock Drill Oil .....	27
ROCKMORE product information .....	28





# BIT FACE SELECTION

← LESS ABRASIVE ROCK / ROCK CONSOLIDATION MORE →

Concave Face	Concave-Convex	Convex Face	Flat Face
Concave Face designed for unconsolidated or broken rock. These face features will help drill straighter holes in medium to hard formations.	Convex/Concave Face bits are a hybrid design for fast penetration and straighter holes in unconsolidated rock with low silica content. Typical applications are medium to hard formations.	Convex Face bits are designed for fast penetration rates in softer rock like shale and limestone with low silica content.	Flat Face bits are a general purpose bit that will work in all rock conditions but should be used especially for hard or abrasive conditions like granite, basalt, and hard limestone. Flat face bits are the best choice for drilling in a high silica environ

# CARBIDE SELECTION

← FASTER PENETRATION RATE SHORTER LIFE AND MORE PRONE TO BREAKING →

← SOFTER ROCK HARDNESS HARDER →

← LESS VIBRATION MORE →

BIT AND ROD VIBRATION INCREASES WHEN FEWER AND LARGER CARBIDE BUTTONS ARE SELECTED.

Carbide Designs	Carbide Configurations
Perhaps the most fundamental decision when selecting different carbide configurations is profile shape. Button bits most commonly have either a hemispherical or semi-ballistic carbide design; however it is not uncommon to use other carbide designs as well	Most face designs for button bits are offered in multiple carbide configurations and typically differ in diameter, shape (i.e. profile) and quantity. There are some general guidelines to follow while selecting between multiple carbide configurations inclu
<p style="text-align: center;">FASTER PENETRATION RATE</p> <p style="text-align: center;">SHORTER LIFE AND MORE PRONE TO BREAKING</p> <p style="text-align: center;">CONICAL</p> <p style="text-align: center;">FULL BALLISTIC</p>	<p style="text-align: center;">SLOWER PENETRATION RATE</p> <p style="text-align: center;">LONGER LIFE AND LESS PRONE TO BREAKING</p> <p style="text-align: center;">SEMI BALLISTIC</p> <p style="text-align: center;">CROWN POINT</p> <p style="text-align: center;">HEMISPHERICAL</p>
<p style="text-align: center;">MORE, SMALLER DIAMETER CARBIDE RESULTS IN FASTER PENETRATION RATES, BUT SHORTER CARBIDE AND BIT LIFE.</p>	<p style="text-align: center;">PENETRATION RATE VS. CARBIDE/BIT LIFE</p> <p style="text-align: center;">FEWER, LARGER DIAMETER CARBIDE RESULTS IN SLOWER PENETRATION RATES, BUT LONGER CARBIDE AND BIT LIFE.</p>



MultiPoint -- the next generation carbide insert. Rockmore's exclusive new carbide insert design provides multiple strike points for more efficient rock fracture and longer insert life. Along with longer insert life, MultiPoint carbides also provide smoother bit rotation and advancement.

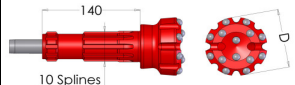
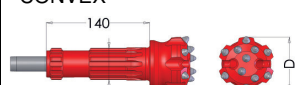




# DOWN-THE-HOLE (DTH) BITS ROCKMORE



## SHANK: RM250

NO.	CONCAVE	CARBIDE DIMENSIONS						DIAMETER		PART NUMBER		
		CARBIDE DESIGN	GAUGE NO. X DIA.			FRONT NO. X DIA.			D		USA	AUSTRIA
			No.	mm	In.	No.	mm	In.	mm	In.		
1	 10 Splines 10 SPLINES 2 FRONT FLUSHING HOLES	HEM	8	11	7/16	6	9.5	3/8	76	3	RM250-76CC-3459	45616
		HEM	8	11	7/16	6	11	7/16	89	3-1/2	RM250-89CC-3824	45651
2	 10 Splines 10 SPLINES 2 FRONT FLUSHING HOLES	HEM	6	10	13/32	5	10	13/32	72	2-13/16	RM250-72CV-4121	45615
		HEM	8	11	7/16	6	9.5	3/8	76	3	RM250-76CV-3678	45570
3	RM250 BLOW TUBE									PART NUMBER		
										USA	AUSTRIA	
										BTRM250-1021	45118	

### CARBIDE PROFILE DESIGNS



HEM = Hemispherical Carbide; BAL = (Semi) Ballistic Carbide; CP = CrownPoint carbide; CON = Conical carbide; FB = Full Ballistic Carbide; MP = MultiPoint carbide, on request  
 Note: Some button bits may not be offered with a particular carbide design shown above.

\* = No shank breakage warranty

# DOWN-THE-HOLE (DTH) BITS ATLAS COPCO



## SHANK: COP 32

NO.	CONVEX 214 8 Splines 8 SPLINES 2 FRONT FLUSHING HOLES	CARBIDE DIMENSIONS						DIAMETER		PART NUMBER		
		CARBIDE DESIGN	GAUGE NO. X DIA.			FRONT NO. X DIA.			D		USA	AUSTRIA
			No.	mm	In.	No.	mm	In.	mm	In.		
1		FB	8	11	7/16	6	11	7/16	85	3-3/8	COP32-85CVB-2727	45133
		HEM	8	12	15/32	6	12	15/32	90	3-1/2	COP32-90CV-1787	45079
		FB	8	12	15/32	6	12	15/32	90	3-1/2	COP32-90CVB-1401	41248

## SHANK: TD 40

NO.	FLAT FACE 210 12 Splines 12 SPLINES 2 FRONT FLUSHING HOLES	CARBIDE DIMENSIONS						DIAMETER		PART NUMBER		
		CARBIDE DESIGN	GAUGE NO. X DIA.			FRONT NO. X DIA.			D		USA	AUSTRIA
			No.	mm	In.	No.	mm	In.	mm	In.		
2		HEM	8	14	9/16	7	12.7	1/2	110	4-5/16	TD40-110FF-3684	45595
		HEM	8	14	9/16	8	12.7	1/2	115	4-1/2	TD40-115FF-3529	45574
		HEM	8	16	5/8	6	12.7	1/2	115	4-1/2	TD40-115FF-3689	45598
		HEM	8	14	9/16	8	12.7	1/2	120	4-23/32	TD40-120FF-3692	45596
		HEM	8	14	9/16	10	12.7	1/2	125	4-15/16	TD40-125FF-3696	45556
		HEM	8	16	5/8	8	14	9/16	130 *	5-1/8	TD40-130FF-3698	45597
		HEM	8	16	5/8	10	14	9/16	140 *	5-1/2	TD40-140FF-3699	45537

NO.	CONCAVE 210 12 Splines 12 SPLINES 2 FRONT FLUSHING HOLES	CARBIDE DIMENSIONS						DIAMETER		PART NUMBER		
		CARBIDE DESIGN	GAUGE NO. X DIA.			FRONT NO. X DIA.			D		USA	AUSTRIA
			No.	mm	In.	No.	mm	In.	mm	In.		
3		HEM	8	14	9/16	8	12.7	1/2	115	4-1/2	TD40-115CC-3685	45600
		HEM / BAL	8	14	9/16	8	12.7	1/2	115	4-1/2	TD40-115CC-3686	45604
		HEM	8	16	5/8	8	12.7	1/2	125	4-15/16	TD40-125CC-3693	45601
		HEM / BAL	8	16	5/8	8	12.7	1/2	125	4-15/16	TD40-125CC-3694	45605
		HEM	8	16	5/8	8	12.7	1/2	130 *	5-1/8	TD40-130CC-4122	45602
		HEM / BAL	8	16	5/8	8	12.7	1/2	130 *	5-1/8	TD40-130CC-4123	45606

NO.	CONVEX 210 12 Splines 12 SPLINES 2 FRONT FLUSHING HOLES	CARBIDE DIMENSIONS						DIAMETER		PART NUMBER		
		CARBIDE DESIGN	GAUGE NO. X DIA.			FRONT NO. X DIA.			D		USA	AUSTRIA
			No.	mm	In.	No.	mm	In.	mm	In.		
4		BAL	8	14	9/16	8	12.7	1/2	110	4-5/16	TD40-110CVB-3683	45585
		BAL	8	12.7	1/2	8	12.7	1/2	115	4-1/2	TD40-115CVB-3688	45586
		BAL	8	14	9/16	8	12.7	1/2	115	4-1/2	TD40-115CVB-3687	45593
		BAL	8	14	9/16	8	12.7	1/2	120	4-23/32	TD40-120CVB-3691	45587
		BAL	8	14	9/16	9	12.7	1/2	125	4-15/16	TD40-125CVB-3695	45588
		BAL	8	14	9/16	10	12.7	1/2	130 *	5-1/8	TD40-130CVB-3697	45589

NO.	HEDGEHOG, CONVEX 210 12 Splines 12 SPLINES 2 FRONT FLUSHING HOLES	CARBIDE DIMENSIONS						DIAMETER		PART NUMBER		
		CARBIDE DESIGN	GAUGE NO. X DIA.			FRONT NO. X DIA.			D		USA	AUSTRIA
			No.	mm	In.	No.	mm	In.	mm	In.		
5		FB	8	13	1/2	8	12	15/32	115	4-1/2	TD40-115HHCVB-3690	45608

NO.	TD40 / QL4 BLOW TUBE	PART NUMBER	
		USA	AUSTRIA
		BTTD40-1022	45093

## CARBIDE PROFILE DESIGNS



HEM = Hemispherical Carbide; BAL = (Semi) Ballistic Carbide; CP = CrownPoint carbide; CON = Conical carbide; FB = Full Ballistic Carbide; MP = MultiPoint carbide, on request  
 Note: Some button bits may not be offered with a particular carbide design shown above.

\* = No shank breakage warranty

# DOWN-THE-HOLE (DTH) BITS BULROC



## SHANK: BULROC 2, ROK 2LT

NO.		CARBIDE DIMENSIONS						DIAMETER		PART NUMBER		
		CARBIDE DESIGN	GAUGE NO. X DIA.			FRONT NO. X DIA.			D		USA	AUSTRIA
			No.	mm	In.	No.	mm	In.	mm	In.		
1		HEM	6	10	13/32	5	10	13/32	70	2-3/4	BUL2-70FF-3029	45135
		BAL	6	10	13/32	5	10	13/32	70	2-3/4	BUL2-70FFB-3031	45180
		HEM	6	11	7/16	5	11	7/16	76	3	BUL2-76FF-2960	45087
		HEM / BAL	6	11	7/16	5	11	7/16	76	3	BUL2-76FF-3030	45088
		BAL	6	11	7/16	5	11	7/16	76	3	BUL2-76FFB-3032	45089

## SHANK: BULROC 3/33

NO.		CARBIDE DIMENSIONS						DIAMETER		PART NUMBER			
		CARBIDE DESIGN	GAUGE NO. X DIA.			FRONT NO. X DIA.			D		USA	AUSTRIA	
			No.	mm	In.	No.	mm	In.	mm	In.			
2		FB	8	11	7/16	6	11	7/16	85	3-3/8	BUL3-85CVB-2822	41245	
		HEM	8	12	15/32	6	12	15/32	90	3-1/2	BUL3-90CV-2742	41216	
		FB	8	11	7/16	8	11	7/16	90	3-1/2	BUL3-90CVB-2823	41215	
		FB	8	12	15/32	6	12	15/32	90	3-1/2	BUL3-90CVB-1875	41238	
		CON	8	12	15/32	6	12	15/32	90	3-1/2	BUL3-90CVC-2743	41233	
		HEM	8	12	15/32	6	12	15/32	95	3-3/4	BUL3-95CV-2744	41237	
		FB	8	12	15/32	6	12	15/32	95	3-3/4	BUL3-95CVB-1402	41234	
		HEM	8	12	15/32	8	12	15/32	105	4-1/8	BUL3-105CV-2745	41239	
		FB	8	12	15/32	8	12	15/32	105	4-1/8	BUL3-105CVB-1932	41232	
		FB	8	12	15/32	8	12	15/32	110 *	4-5/16	BUL3-110CVB-4107	41268	
		FB	8	12	15/32	9	12	15/32	115 *	4-1/2	BUL3-115CVB-4108	41235	
		FB	8	12	15/32	9	12	15/32	120 *	4-23/32	BUL3-120CVB-4109	41282	
		FB	9 **	12	15/32	11	12	15/32	125 *	4-15/16	BUL3-125CVB-4110	41293	

NO.		CARBIDE DIMENSIONS						DIAMETER		PART NUMBER		
		CARBIDE DESIGN	GAUGE NO. X DIA.			FRONT NO. X DIA.			D		USA	AUSTRIA
			No.	mm	In.	No.	mm	In.	mm	In.		
3		FB	7	11	7/16	6	11	7/16	90	3-1/2	BUL3-90HHCVB-4111	45502

NO.		CARBIDE DIMENSIONS						DIAMETER		PART NUMBER		
		CARBIDE DESIGN	GAUGE NO. X DIA.			FRONT NO. X DIA.			D		USA	AUSTRIA
			No.	mm	In.	No.	mm	In.	mm	In.		
4		FB	7	11	7/16	6	11	7/16	90	3-1/2	BUL3-90HHCVB-3784	45413

## SHANK: BULROC 33, ROK 3LT

NO.		CARBIDE DIMENSIONS						DIAMETER		PART NUMBER		
		CARBIDE DESIGN	GAUGE NO. X DIA.			FRONT NO. X DIA.			D		USA	AUSTRIA
			No.	mm	In.	No.	mm	In.	mm	In.		
5		HEM	8	12	15/32	6	12	15/32	90	3-1/2	BUL33-90CV-2728	45463
		FB	8	12	15/32	6	12	15/32	90	3-1/2	BUL33-90CVB-2690	45162
		CON	8	11	7/16	6	11	7/16	90	3-1/2	BUL33-90CVC-2378	45164
		HEM	8	12	15/32	6	12	15/32	95	3-3/4	BUL33-95CV-2729	45459
		FB	8	12	15/32	6	12	15/32	95	3-3/4	BUL33-95CVB-2732	45460
		HEM	8	12	15/32	8	12	15/32	105	4-1/8	BUL33-105CV-2733	45461
		FB	8	12	15/32	8	12	15/32	105	4-1/8	BUL33-105CVB-2741	45462

### CARBIDE PROFILE DESIGNS



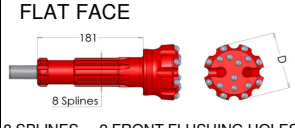
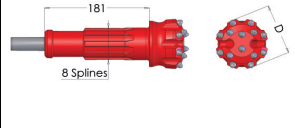
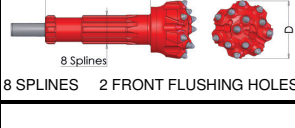
HEM = Hemispherical Carbide; BAL = (Semi) Ballistic Carbide; CP = CrownPoint carbide; CON = Conical carbide; FB = Full Ballistic Carbide; MP = MultiPoint carbide, on request  
 Note: Some button bits may not be offered with a particular carbide design shown above.  
 \* = No shank breakage warranty



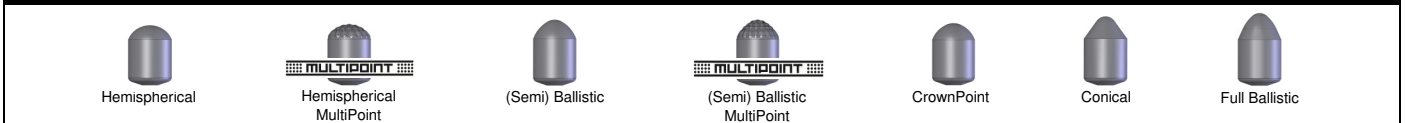
# DOWN-THE-HOLE (DTH) BITS INGERSOLL-RAND



## SHANK: IR 3.5

NO.	FLAT FACE  8 SPLINES 2 FRONT FLUSHING HOLES	CARBIDE DIMENSIONS						DIAMETER		PART NUMBER				
		CARBIDE DESIGN	GAUGE NO. X DIA.			FRONT NO. X DIA.			D		USA	AUSTRIA		
			No.	mm	In.	No.	mm	In.	mm	In.				
1		HEM	8	12.7	1/2	8	11	7/16	105	4-1/8	IR35-105FF-2590	45196		
2	CONVEX  8 SPLINES 2 FRONT FLUSHING HOLES	CON	8	11	7/16	6	11	7/16	85	3-3/8	IR35-85CVC-4112	45134		
		HEM	8	11	7/16	6	11	7/16	92	3-5/8	IR35-92CV-2722	45070		
		HEM / BAL	8	12.7	1/2	6	12.7	1/2	92	3-5/8	IR35-92CV-4113	45398		
		BAL	8	11	7/16	6	11	7/16	92	3-5/8	IR35-92CVB-2596	45137		
		BAL	8	11	7/16	8	11	7/16	92	3-5/8	IR35-92CVB-2833	45278		
		CON	8	12.7	1/2	6	12.7	1/2	92	3-5/8	IR35-92CVC-3766	45497		
		HEM	8	12.7	1/2	6	12.7	1/2	95	3-3/4	IR35-95CV-2723	45291		
		HEM / BAL	8	12.7	1/2	6	12.7	1/2	95	3-3/4	IR35-95CV-4114	45496		
		BAL	8	12.7	1/2	6	12.7	1/2	95	3-3/4	IR35-95CVB-2602	45290		
		CON	8	12.7	1/2	6	12.7	1/2	95	3-3/4	IR35-95CVC-3207	45412		
		HEM	8	12.7	1/2	6	12.7	1/2	100	3-15/16	IR35-100CV-2724	45263		
		BAL	8	12.7	1/2	6	12.7	1/2	100	3-15/16	IR35-100CVB-2603	45169		
		HEM	8	12.7	1/2	8	11	7/16	105	4-1/8	IR35-105CV-2725	45293		
		BAL	8	12.7	1/2	8	11	7/16	105	4-1/8	IR35-105CVB-2726	45292		
		3	HEDGEHOG, CONVEX  8 SPLINES 2 FRONT FLUSHING HOLES	FB	7	11	7/16	6	11	7/16	92	3-5/8	IR35-92HHCVB-3178	45493
				FB	7	12	15/32	6	12	15/32	95	3-3/4	IR35-95HHCVB-3767	45494
FB	7			12	15/32	6	12	15/32	100	3-15/16	IR35-100HHCVB-3179	45524		
FB	7			12	15/32	6	12	15/32	105	4-1/8	IR35-105HHCVB-3214	45528		
4	IR 3.5 / IR 3.5HD BLOW TUBE									PART NUMBER				
										USA	AUSTRIA			
								BTIR35HD-1018		45099				

## CARBIDE PROFILE DESIGNS



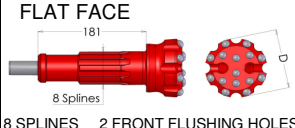
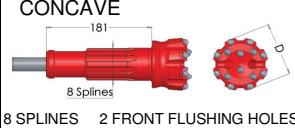
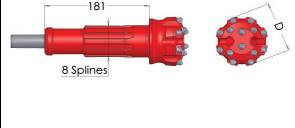
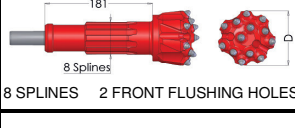
HEM = Hemispherical Carbide; BAL = (Semi) Ballistic Carbide; CP = CrownPoint carbide; CON = Conical carbide; FB = Full Ballistic Carbide; MP = MultiPoint carbide, on request  
 Note: Some button bits may not be offered with a particular carbide design shown above.

\* = No shank breakage warranty

# DOWN-THE-HOLE (DTH) BITS INGERSOLL-RAND



## SHANK: IR 3.5HD

NO.	FLAT FACE  8 SPLINES 2 FRONT FLUSHING HOLES	CARBIDE DIMENSIONS						DIAMETER		PART NUMBER			
		CARBIDE DESIGN	GAUGE NO. X DIA.			FRONT NO. X DIA.			D		USA	AUSTRIA	
		No.	mm	In.	No.	mm	In.	mm	In.				
5		HEM	8	14	9/16	7	12.7	1/2	105	4-1/8	IR35HD-105FF-2832	45335	
6	CONCAVE  8 SPLINES 2 FRONT FLUSHING HOLES	HEM / BAL	8	12.7	1/2	6	12.7	1/2	95	3-3/4	IR35HD-95CC-3770	45519	
7	CONVEX  8 SPLINES 2 FRONT FLUSHING HOLES	HEM	8	12.7	1/2	6	12.7	1/2	95	3-3/4	IR35HD-95CV-2827	45331	
		HEM / BAL	8	12.7	1/2	6	12.7	1/2	95	3-3/4	IR35HD-95CV-3771	45468	
		BAL	8	12.7	1/2	6	12.7	1/2	95	3-3/4	IR35HD-95CVB-2828	45330	
		CON	8	12.7	1/2	6	12.7	1/2	95	3-3/4	IR35HD-95CVC-3772	45498	
		HEM	8	12.7	1/2	6	12.7	1/2	100	3-15/16	IR35HD-100CV-2829	45333	
		HEM / BAL	8	12.7	1/2	6	12.7	1/2	100	3-15/16	IR35HD-100CV-4115	45538	
		BAL	8	12.7	1/2	6	12.7	1/2	100	3-15/16	IR35HD-100CVB-2830	45332	
		CON	8	12.7	1/2	7	12.7	1/2	100	3-15/16	IR35HD-100CVC-3768	45523	
		HEM / BAL	8	12.7	1/2	8	12.7	1/2	105	4-1/8	IR35HD-105CV-4116	45336	
		BAL	8	12.7	1/2	8	12.7	1/2	105	4-1/8	IR35HD-105CVB-2831	45334	
		FB	7	14	9/16	6	14	9/16	105	4-1/8	IR35HD-105CVB-3769	45469	
		CON	8	12.7	1/2	8	12.7	1/2	105	4-1/8	IR35HD-105CVC-4117	45642	
8	HEDGEHOG, CONVEX  8 SPLINES 2 FRONT FLUSHING HOLES	FB	7	12	15/32	6	12	15/32	95	3-3/4	IR35HD-95HHCVB-3773	45495	
		FB	7	12	15/32	6	12	15/32	100	3-15/16	IR35HD-100HHCVB-4129	45650	
		FB	7	12	15/32	7	12	15/32	105	4-1/8	IR35HD-105HHCVB-4118	45633	
9	IR 3.5 / IR 3.5HD BLOW TUBE									PART NUMBER			
										USA	AUSTRIA		
										BTIR35HD-1018		45099	

## CARBIDE PROFILE DESIGNS



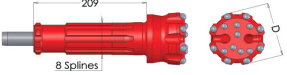
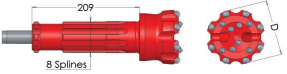
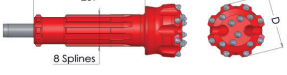
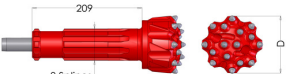
HEM = Hemispherical Carbide; BAL = (Semi) Ballistic Carbide; CP = CrownPoint carbide; CON = Conical carbide; FB = Full Ballistic Carbide; MP = MultiPoint carbide, on request  
Note: Some button bits may not be offered with a particular carbide design shown above.

\* = No shank breakage warranty

# DOWN-THE-HOLE (DTH) BITS INGERSOLL-RAND



## SHANK: 340A

NO.	FLAT FACE	CARBIDE DIMENSIONS						DIAMETER		PART NUMBER		
		CARBIDE DESIGN	GAUGE NO. X DIA.		FRONT NO. X DIA.		D		USA	AUSTRIA		
			No.	mm	In.	No.	mm	In.			mm	In.
10	 8 SPLINES 2 FRONT FLUSHING HOLES	HEM	8	12.7	1/2	8	11	7/16	105	4-1/8	340A-105FF-1599	45032
		HEM	8	12.7	1/2	8	11	7/16	110	4-5/16	340A-110FF-1600	45069
		HEM	8	14	9/16	8	12.7	1/2	115	4-1/2	340A-115FF-914	45066
		HEM	8	16	5/8	6	14	9/16	115	4-1/2	340A-115FF-3761	45411
		HEM / BAL	8	14	9/16	8	12.7	1/2	115	4-1/2	340A-115FF-2796	45517
		HEM	8	14	9/16	8	12.7	1/2	121	4-3/4	340A-121FF-2198	45341
		HEM	8	16	5/8	8	12.7	1/2	127 *	5	340A-127FF-1601	45165
		HEM	8	16	5/8	8	12.7	1/2	130 *	5-1/8	340A-130FF-1602	45195
		HEM	8	16	5/8	8	14	9/16	140 *	5-1/2	340A-140FF-735	45033
		HEM	8	16	5/8	9	14	9/16	145 *	5-3/4	340A-145FF-2841	45307
		HEM	8	16	5/8	9	14	9/16	150 *	5-7/8	340A-150FF-4104	45260
		11	 8 SPLINES 2 FRONT FLUSHING HOLES	HEM	8	12.7	1/2	8	11	7/16	105	4-1/8
HEM	8			12.7	1/2	8	11	7/16	110	4-5/16	340A-110CC-1604	45035
HEM / BAL	8			14	9/16	8	12.7	1/2	110	4-5/16	340A-110CC-3759	45516
HEM	8			14	9/16	8	12.7	1/2	115	4-1/2	340A-115CC-917	45212
HEM / BAL	8			14	9/16	8	12.7	1/2	115	4-1/2	340A-115CC-2834	45425
HEM / BAL	8			14	9/16	8	12.7	1/2	120	4-23/32	340A-120CC-3762	45508
HEM	8			14	9/16	8	12.7	1/2	121	4-3/4	340A-121CC-1439	45192
HEM	8			16	5/8	8	12.7	1/2	127 *	5	340A-127CC-1605	45213
HEM / BAL	8			16	5/8	8	12.7	1/2	127 *	5	340A-127CC-2836	45424
HEM	8			16	5/8	8	12.7	1/2	130 *	5-1/8	340A-130CC-1606	45193
HEM / BAL	8			16	5/8	8	12.7	1/2	130 *	5-1/8	340A-130CC-2838	45437
HEM	8			16	5/8	8	14	9/16	140 *	5-1/2	340A-140CC-1607	45214
12	 8 SPLINES 2 FRONT FLUSHING HOLES ** 3 FRONT FLUSHING HOLES	HEM	8	14	9/16	8	12.7	1/2	105	4-1/8	340A-105CV-3757	41276
		BAL	8	12.7	1/2	8	11	7/16	105	4-1/8	340A-105CVB-2282	45167
		HEM	8	14	9/16	8	12.7	1/2	110	4-5/16	340A-110CV-4097	41287
		BAL	8	12.7	1/2	8	12.7	1/2	110	4-5/16	340A-110CVB-3760	41294
		BAL	8	14	9/16	8	12.7	1/2	110	4-5/16	340A-110CVB-2760	45443
		HEM	8	14	9/16	8	12.7	1/2	115	4-1/2	340A-115CV-1969	41278
		HEM / BAL	8	14	9/16	8	12.7	1/2	115	4-1/2	340A-115CV-4099	45636
		BAL	8	12.7	1/2	9	12.7	1/2	115	4-1/2	340A-115CVB-4100	45075
		BAL	8	14	9/16	8	12.7	1/2	115	4-1/2	340A-115CVB-2084	45067
		FB	7	14	9/16	7	14	9/16	115	4-1/2	340A-115CVB-2835	45431
		CON	8	12.7	1/2	9	12.7	1/2	115	4-1/2	340A-115CVC-4101	45575
		BAL	8	14	9/16	8	12.7	1/2	120	4-23/32	340A-120CVB-3682	45550
		BAL	9 **	12.7	1/2	11	12.7	1/2	127 *	5	340A-127CVB-2756	45074
		HEM	8	14	9/16	9	14	9/16	130 *	5-1/8	340A-130CV-3778	45149
		HEM / BAL	9 **	12.7	1/2	12	12.7	1/2	130 *	5-1/8	340A-130CV-4103	45641
		BAL	9 **	12.7	1/2	12	12.7	1/2	130 *	5-1/8	340A-130CVB-3779	45150
		HEM	8	16	5/8	9	14	9/16	140 *	5-1/2	340A-140CV-3763	45151
		FB	9 **	14	9/16	12	12	15/32	140 *	5-1/2	340A-140CVB-2839	45152
		FB	8	16	5/8	9	14	9/16	145 *	5-3/4	340A-145CVB-2840	45328
		13	 8 SPLINES 2 FRONT FLUSHING HOLES	FB	8	13	1/2	8	12	15/32	110	4-5/16
FB	8			13	1/2	8	12	15/32	115	4-1/2	340A-115HHCVB-3160	45499
FB	8			13	1/2	8	12	15/32	120	4-23/32	340A-120HHCVB-4102	45567
FB	9			12	15/32	10	12	15/32	127 *	5	340A-127HHCVB-3452	45531
14	340A BLOW TUBE									PART NUMBER		
										USA	AUSTRIA	
										BT340A-1003	45094	

### CARBIDE PROFILE DESIGNS



HEM = Hemispherical Carbide; BAL = (Semi) Ballistic Carbide; CP = CrownPoint carbide; CON = Conical carbide; FB = Full Ballistic Carbide; MP = MultiPoint carbide, on request  
 Note: Some button bits may not be offered with a particular carbide design shown above.

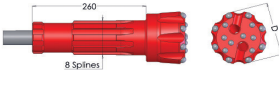
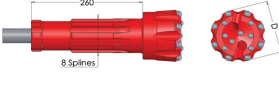
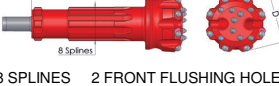
\* = No shank breakage warranty



# DOWN-THE-HOLE (DTH) BITS INGERSOLL-RAND



## SHANK: 350R

NO.	FLAT FACE	CARBIDE DIMENSIONS						DIAMETER		PART NUMBER		
		CARBIDE DESIGN	GAUGE NO. X DIA.			FRONT NO. X DIA.			D		USA	AUSTRIA
			No.	mm	In.	No.	mm	In.	mm	In.		
15	 8 SPLINES 2 FRONT FLUSHING HOLES	HEM	8	16	5/8	8	12.7	1/2	127	5	350R-127FF-857	45215
		HEM	8	16	5/8	8	12.7	1/2	130	5-1/8	350R-130FF-1608	45166
		HEM	8	16	5/8	8	14	9/16	135	5-5/16	350R-135FF-4106	45549
		HEM	8	16	5/8	8	14	9/16	140	5-1/2	350R-140FF-106	45086
		HEM	8	16	5/8	8	16	5/8	146	5-3/4	350R-146FF-883	45216
		HEM	8	16	5/8	8	16	5/8	149	5-7/8	350R-149FF-2201	45184
		HEM	8	16	5/8	8	16	5/8	152 *	6	350R-152FF-2202	45344
NO.	CONCAVE	CARBIDE DIMENSIONS						DIAMETER		PART NUMBER		
		CARBIDE DESIGN	GAUGE NO. X DIA.			FRONT NO. X DIA.			D		USA	AUSTRIA
			No.	mm	In.	No.	mm	In.	mm	In.		
16	 8 SPLINES 2 FRONT FLUSHING HOLES	HEM	8	16	5/8	8	12.7	1/2	127	5	350R-127CC-1609	45217
		HEM	8	16	5/8	8	12.7	1/2	130	5-1/8	350R-130CC-1610	45218
		HEM / BAL	8	16	5/8	8	12.7	1/2	130	5-1/8	350R-130CC-2783	45467
		HEM / BAL	8	16	5/8	8	14	9/16	135	5-5/16	350R-135CC-4105	45548
		HEM	8	16	5/8	8	14	9/16	140	5-1/2	350R-140CC-107	45219
		HEM	8	16	5/8	8	16	5/8	146	5-3/4	350R-146CC-851	45220
		HEM	8	16	5/8	9	16	5/8	149	5-7/8	350R-149CC-2203	45345
		BAL	8	16	5/8	9	16	5/8	150	5-7/8	350R-150CCB-2750	45442
		HEM	8	16	5/8	9	16	5/8	152 *	6	350R-152CC-737	45346
		HEM	8	16	5/8	9	16	5/8	165 *	6-1/2	350R-165CC-2188	45529
		HEM	10	16	5/8	12	16	5/8	180 *	7	350R-180CC-2404	45410
		NO.	CONVEX	CARBIDE DIMENSIONS						DIAMETER		PART NUMBER
CARBIDE DESIGN	GAUGE NO. X DIA.			FRONT NO. X DIA.			D		USA	AUSTRIA		
	No.			mm	In.	No.	mm	In.			mm	In.
17	 8 SPLINES 2 FRONT FLUSHING HOLES	FB	8	16	5/8	8	16	5/8	140	5-1/2	350R-140CVB-2843	45403
		FB	8	16	5/8	9	14	9/16	146	5-3/4	350R-146CVB-2844	45394
NO.	350R BLOW TUBE									PART NUMBER		
										USA	AUSTRIA	
												BT350R-1004

### CARBIDE PROFILE DESIGNS



HEM = Hemispherical Carbide; BAL = (Semi) Ballistic Carbide; CP = CrownPoint carbide; CON = Conical carbide; FB = Full Ballistic Carbide; MP = MultiPoint carbide, on request  
 Note: Some button bits may not be offered with a particular carbide design shown above.

\* = No shank breakage warranty

# DOWN-THE-HOLE (DTH) BITS INGERSOLL-RAND



## SHANK: 360, SF6

NO.	FLAT FACE	CARBIDE DIMENSIONS						DIAMETER		PART NUMBER				
		CARBIDE DESIGN	GAUGE NO. X DIA.			FRONT NO. X DIA.			D		USA	AUSTRIA		
			No.	mm	In.	No.	mm	In.	mm	In.				
19	<p>8 SPLINES 2 FRONT FLUSHING HOLES</p>	HEM	8	16	5/8	8	16	5/8	152	6	360-152FF-1173	41297		
		HEM	8	16	5/8	8	16	5/8	156	6-1/8	360-156FF-794	41206		
		HEM	8	16	5/8	8	16	5/8	159	6-1/4	360-159FF-117	41208		
		HEM	8	16	5/8	10	16	5/8	165	6-1/2	360-165FF-1098	41209		
		HEM	10	16	5/8	10	16	5/8	165	6-1/2	360-165FF-219	41296		
		HEM	10	16	5/8	10	16	5/8	172	6-3/4	360-172FF-1611	41213		
		HEM	10	16	5/8	12	16	5/8	180 *	7	360-180FF-1798	45277		
		HEM	10	19	3/4	14	16	5/8	190 *	7-1/2	360-190FF-2205	45348		
		HEM	10	19	3/4	14	16	5/8	200 *	7-7/8	360-200FF-2206	45350		
		HEM	10	19	3/4	14	16	5/8	203 *	8	360-203FF-843	41214		
20	<p>8 SPLINES 2 FRONT FLUSHING HOLES</p>	HEM	8	16	5/8	9	16	5/8	152	6	360-152CC-2318	41290		
		HEM	8	16	5/8	9	16	5/8	156	6-1/8	360-156CC-903	41210		
		HEM	8	16	5/8	9	16	5/8	159	6-1/4	360-159CC-118	41286		
		HEM	8	16	5/8	9	16	5/8	165	6-1/2	360-165CC-238	41291		
		HEM	10	16	5/8	10	16	5/8	165	6-1/2	360-165CC-1612	41257		
		HEM	8	19	3/4	9	16	5/8	172	6-3/4	360-172CC-1356	45436		
		HEM	10	16	5/8	10	16	5/8	172	6-3/4	360-172CC-1397	41258		
		HEM	10	19	3/4	14	16	5/8	190 *	7-1/2	360-190CC-2102	45349		
		HEM	10	19	3/4	14	16	5/8	200 *	7-7/8	360-200CC-226	45351		
		HEM	10	19	3/4	14	16	5/8	203 *	8	360-203CC-225	41259		
		HEM	12	19	3/4	23	16	5/8	254 *	10	360-254CC-3314	45440		
		21	<p>8 SPLINES 2 FRONT FLUSHING HOLES</p>	HEM	8	19	3/4	10	16	5/8	165	6-1/2	360-165CV-190	45471
				HEM	8	19	3/4	10	16	5/8	172	6-3/4	360-172CV-200	45472
22	360 BLOW TUBE									PART NUMBER				
										USA	AUSTRIA			
										BT360-1005	45095			

### CARBIDE PROFILE DESIGNS



HEM = Hemispherical Carbide; BAL = (Semi) Ballistic Carbide; CP = CrownPoint carbide; CON = Conical carbide; FB = Full Ballistic Carbide; MP = MultiPoint carbide, on request  
 Note: Some button bits may not be offered with a particular carbide design shown above.

\* = No shank breakage warranty

# DOWN-THE-HOLE (DTH) BITS INGERSOLL-RAND



## SHANK: 380

NO.	FLAT FACE	CARBIDE DIMENSIONS						DIAMETER		PART NUMBER			
		CARBIDE DESIGN	GAUGE NO. X DIA.			FRONT NO. X DIA.			D		USA	AUSTRIA	
			No.	mm	In.	No.	mm	In.	mm	In.			
23	<p>10 SPLINES 2 FRONT FLUSHING HOLES</p>	HEM	10	19	3/4	14	16	5/8	203	8	380-203FF-1067	45221	
		HEM	10	19	3/4	14	16	5/8	207	8-1/8	380-207FF-2211	45362	
		HEM	10	19	3/4	14	16	5/8	216	8-1/2	380-216FF-1053	45222	
		HEM	10	19	3/4	16	16	5/8	225	8-7/8	380-225FF-2213	45364	
		HEM	10	19	3/4	16	16	5/8	229	9	380-229FF-2215	45366	
		HEM	12	19	3/4	23	16	5/8	251 *	9-7/8	380-251FF-2217	45368	
		HEM	12	19	3/4	27	16	5/8	254 *	10	380-254FF-1613	45223	
		HEM	12	19	3/4	37	16	5/8	305 *	12	380-305FF-3649	45618	
		24	<p>10 SPLINES 2 FRONT FLUSHING HOLES</p>	HEM	10	19	3/4	14	16	5/8	190	7-1/2	380-190CC-2623
HEM	10			19	3/4	14	16	5/8	194	7-5/8	380-194CC-2600	45464	
HEM	10			19	3/4	14	16	5/8	203	8	380-203CC-232	45224	
HEM	10			19	3/4	14	16	5/8	207	8-1/8	380-207CC-3028	45363	
HEM	10			19	3/4	14	16	5/8	216	8-1/2	380-216CC-1147	45225	
HEM	10			19	3/4	16	16	5/8	225	8-7/8	380-225CC-2228	45365	
HEM	10			19	3/4	16	16	5/8	229	9	380-229CC-2230	45367	
HEM	12			19	3/4	23	16	5/8	251 *	9-7/8	380-251CC-2051	45369	
HEM	12			19	3/4	23	16	5/8	254 *	10	380-254CC-233	45226	
HEM	12			19	3/4	31	16	5/8	305 *	12	380-305CC-3650	45617	
25	380 BLOW TUBE											PART NUMBER	
												USA	AUSTRIA
												BT380-1006	45115

### CARBIDE PROFILE DESIGNS



HEM = Hemispherical Carbide; BAL = (Semi) Ballistic Carbide; CP = CrownPoint carbide; CON = Conical carbide; FB = Full Ballistic Carbide; MP = MultiPoint carbide, on request  
 Note: Some button bits may not be offered with a particular carbide design shown above.

\* = No shank breakage warranty



# DOWN-THE-HOLE (DTH) BITS INGERSOLL-RAND - QL SERIES



## SHANK: QL4/QL40

NO.	FLAT FACE	CARBIDE DIMENSIONS						DIAMETER		PART NUMBER		
		CARBIDE DESIGN	GAUGE NO. X DIA.			FRONT NO. X DIA.			D		USA	AUSTRIA
			No.	mm	In.	No.	mm	In.	mm	In.		
1	 10 SPLINES 2 FRONT FLUSHING HOLES	HEM	8	12.7	1/2	8	11	7/16	105	4-1/8	QL4-105FF-1614	45227
		HEM	8	12.7	1/2	8	11	7/16	110	4-5/16	QL4-110FF-1615	45055
		HEM	8	14	9/16	8	12.7	1/2	115	4-1/2	QL4-115FF-1050	45136
		HEM	8	16	5/8	8	12.7	1/2	127 *	5	QL4-127FF-1616	45229
		HEM	8	16	5/8	8	14	9/16	140 *	5-1/2	QL4-140FF-1617	45058

NO.	CONCAVE	CARBIDE DIMENSIONS						DIAMETER		PART NUMBER		
		CARBIDE DESIGN	GAUGE NO. X DIA.			FRONT NO. X DIA.			D		USA	AUSTRIA
			No.	mm	In.	No.	mm	In.	mm	In.		
2	 10 SPLINES 2 FRONT FLUSHING HOLES	HEM	8	12.7	1/2	8	11	7/16	105	4-1/8	QL4-105CC-1618	45230
		HEM	8	12.7	1/2	8	11	7/16	110	4-5/16	QL4-110CC-1619	45231
		HEM	8	14	9/16	8	12.7	1/2	115	4-1/2	QL4-115CC-1620	45232
		HEM	8	16	5/8	8	12.7	1/2	127 *	5	QL4-127CC-1621	45233
		HEM	8	16	5/8	8	14	9/16	140 *	5-1/2	QL4-140CC-1622	45234

NO.	CONVEX	CARBIDE DIMENSIONS						DIAMETER		PART NUMBER		
		CARBIDE DESIGN	GAUGE NO. X DIA.			FRONT NO. X DIA.			D		USA	AUSTRIA
			No.	mm	In.	No.	mm	In.	mm	In.		
3	 10 SPLINES 2 FRONT FLUSHING HOLES ** 3 FRONT FLUSHING HOLES	HEM	8	14	9/16	8	12.7	1/2	105	4-1/8	QL4-105CV-3774	45120
		BAL	8	12.7	1/2	8	12.7	1/2	110	4-5/16	QL4-110CVB-3775	45051
		BAL	8	16	5/8	7	12.7	1/2	115	4-1/2	QL4-115CVB-2496	45054
		BAL	9 **	12.7	1/2	11	12.7	1/2	127 *	5	QL4-127CVB-2842	45057

NO.	TD40 / QL4/QL40 BLOW TUBE	PART NUMBER	
		USA	AUSTRIA
4		BTDD40-1022	45093

## SHANK: QL5/QL50

NO.	FLAT FACE	CARBIDE DIMENSIONS						DIAMETER		PART NUMBER		
		CARBIDE DESIGN	GAUGE NO. X DIA.			FRONT NO. X DIA.			D		USA	AUSTRIA
			No.	mm	In.	No.	mm	In.	mm	In.		
5	 12 SPLINES 2 FRONT FLUSHING HOLES	HEM	8	16	5/8	8	12.7	1/2	127	5	QL5-127FF-2065	45310
		HEM	8	16	5/8	8	12.7	1/2	130	5-1/8	QL5-130FF-2066	45312
		HEM	8	16	5/8	8	14	9/16	140	5-1/2	QL5-140FF-2067	45314
		HEM	8	16	5/8	8	16	5/8	146	5-3/4	QL5-146FF-2068	45316
		HEM	8	16	5/8	8	16	5/8	152 *	6	QL5-152FF-2220	45378

NO.	CONCAVE	CARBIDE DIMENSIONS						DIAMETER		PART NUMBER		
		CARBIDE DESIGN	GAUGE NO. X DIA.			FRONT NO. X DIA.			D		USA	AUSTRIA
			No.	mm	In.	No.	mm	In.	mm	In.		
6	 12 SPLINES 2 FRONT FLUSHING HOLES	HEM	8	16	5/8	8	12.7	1/2	127	5	QL5-127CC-2069	45311
		HEM	8	16	5/8	8	12.7	1/2	130	5-1/8	QL5-130CC-2070	45313
		HEM / BAL	8	16	5/8	6	16	5/8	130	5-1/8	QL5-130CC-3780	45487
		BAL	8	16	5/8	6	16	5/8	130	5-1/8	QL5-130CCB-3776	45505
		HEM / BAL	8	16	5/8	6	16	5/8	135	5-5/16	QL5-135CC-2937	45489
		HEM	8	16	5/8	8	14	9/16	140	5-1/2	QL5-140CC-2071	45315
		HEM	8	16	5/8	8	16	5/8	146	5-3/4	QL5-146CC-2072	45317
		HEM / BAL	8	16	5/8	8	16	5/8	146	5-3/4	QL5-146CC-3777	45490
		HEM	8	16	5/8	9	16	5/8	152 *	6	QL5-152CC-2236	45379
		HEM	8	16	5/8	9	16	5/8	165 *	6-1/2	QL5-165CC-2786	45530

NO.	CONVEX	CARBIDE DIMENSIONS						DIAMETER		PART NUMBER		
		CARBIDE DESIGN	GAUGE NO. X DIA.			FRONT NO. X DIA.			D		USA	AUSTRIA
			No.	mm	In.	No.	mm	In.	mm	In.		
7	 12 SPLINES 2 FRONT FLUSHING HOLES	HEM / BAL	8	16	5/8	7	16	5/8	130	5-1/8	QL5-130CV-4119	45486
		BAL	8	16	5/8	7	16	5/8	130	5-1/8	QL5-130CVB-3027	45506
		HEM	8	16	5/8	8	16	5/8	135	5-5/16	QL5-135CV-4120	45504
		HEM / BAL	8	16	5/8	8	16	5/8	135	5-5/16	QL5-135CV-2935	45488
		BAL	8	16	5/8	8	16	5/8	135	5-5/16	QL5-135CVB-3026	45507
		BAL	8	16	5/8	8	16	5/8	140	5-1/2	QL5-140CVB-2901	45522

NO.	QL5/QL50 BLOW TUBE	PART NUMBER	
		USA	AUSTRIA
8		BTQL5-1013	45116

## CARBIDE PROFILE DESIGNS



HEM = Hemispherical Carbide; BAL = (Semi) Ballistic Carbide; CP = CrownPoint carbide; CON = Conical carbide; FB = Full Ballistic Carbide; MP = MultiPoint carbide, on request  
 Note: Some button bits may not be offered with a particular carbide design shown above.  
 \* = No shank breakage warranty

# DOWN-THE-HOLE (DTH) BITS INGERSOLL-RAND - QL SERIES



## SHANK: QL6/QL60

NO.	FLAT FACE	CARBIDE DIMENSIONS						DIAMETER		PART NUMBER			
		CARBIDE DESIGN	GAUGE NO. X DIA.			FRONT NO. X DIA.			D		USA	AUSTRIA	
			No.	mm	In.	No.	mm	In.	mm	In.			
9		HEM	8	16	5/8	8	16	5/8	152	6	QL6-152FF-1623	45235	
		HEM	8	16	5/8	8	16	5/8	155	6.1	QL6-155FF-2118	45380	
		HEM	8	16	5/8	8	16	5/8	156	6-1/8	QL6-156FF-1938	45382	
		HEM	8	16	5/8	8	16	5/8	159	6-1/4	QL6-159FF-2219	45384	
		HEM	8	16	5/8	10	16	5/8	165	6-1/2	QL6-165FF-1180	45236	
		HEM	8	19	3/4	10	16	5/8	165	6-1/2	QL6-165FF-1049	45473	
		HEM	10	16	5/8	10	16	5/8	165	6-1/2	QL6-165FF-1624	45241	
		HEM	8	19	3/4	10	16	5/8	172	6-3/4	QL6-172FF-1350	45237	
		HEM	8	19	3/4	8	19	3/4	172	6-3/4	QL6-172FF-2815	45474	
		HEM	10	16	5/8	10	16	5/8	172	6-3/4	QL6-172FF-1625	45242	
		HEM	10	19	3/4	14	16	5/8	190 *	7-1/2	QL6-190FF-2221	45386	
		HEM	10	19	3/4	14	16	5/8	200 *	7-7/8	QL6-200FF-2222	45388	
		HEM	10	19	3/4	14	16	5/8	203 *	8	QL6-203FF-2356	45421	
		HEM	10	19	3/4	14	16	5/8	219 *	8-5/8	QL6-219FF-2946	45491	
HEM	12	19	3/4	23	16	5/8	244 *	9-5/8	QL6-244FF-3148	45521			
10		HEM	8	16	5/8	9	16	5/8	152	6	QL6-152CC-2233	45238	
		HEM	9 **	19	3/4	9	16	5/8	152	6	QL6-152CC-2578	45445	
		HEM	8	16	5/8	9	16	5/8	155	6.1	QL6-155CC-2117	45381	
		HEM	9 **	19	3/4	9	16	5/8	155	6.1	QL6-155CC-2580	45446	
		HEM	8	16	5/8	9	16	5/8	156	6-1/8	QL6-156CC-1920	45383	
		HEM	9 **	19	3/4	9	16	5/8	156	6-1/8	QL6-156CC-2694	45447	
		HEM	8	16	5/8	9	16	5/8	159	6-1/4	QL6-159CC-1955	45385	
		HEM	9 **	19	3/4	9	16	5/8	159	6-1/4	QL6-159CC-2695	45448	
		HEM	8	16	5/8	9	16	5/8	165	6-1/2	QL6-165CC-1102	45239	
		HEM	8	19	3/4	9	16	5/8	165	6-1/2	QL6-165CC-2391	45475	
		HEM	9 **	19	3/4	10	16	5/8	165	6-1/2	QL6-165CC-2670	45449	
		HEM	10	16	5/8	10	16	5/8	165	6-1/2	QL6-165CC-1626	45243	
		HEM	10	19	3/4	12	16	5/8	165	6-1/2	QL6-165CC-2367	45476	
		HEM	8	16	5/8	9	16	5/8	172	6-3/4	QL6-172CC-1278	45240	
		HEM	9 **	19	3/4	10	16	5/8	172	6-3/4	QL6-172CC-2599	45450	
		HEM	10	16	5/8	10	16	5/8	172	6-3/4	QL6-172CC-1410	45244	
		HEM	10	19	3/4	10	16	5/8	172	6-3/4	QL6-172CC-2247	45477	
		HEM	10	16	5/8	12	16	5/8	180	7	QL6-180CC-2437	45470	
		HEM	10	19	3/4	14	16	5/8	190 *	7-1/2	QL6-190CC-2223	45387	
		HEM	10	19	3/4	14	16	5/8	200 *	7-7/8	QL6-200CC-2224	45389	
		HEM	10	19	3/4	14	16	5/8	220 *	8-5/8	QL6-220CC-2583	45518	
11		HEM	10	16	5/8	10	16	5/8	152	6	QL6-152CCV-2425	45451	
		HEM	10	16	5/8	10	16	5/8	155	6.1	QL6-155CCV-2250	45452	
		HEM	10	16	5/8	10	16	5/8	156	6-1/8	QL6-156CCV-2692	45453	
		HEM	10	16	5/8	10	16	5/8	159	6-1/4	QL6-159CCV-2693	45454	
		HEM	10	16	5/8	10	16	5/8	165	6-1/2	QL6-165CCV-2449	45455	
		HEM	10	16	5/8	10	16	5/8	172	6-3/4	QL6-172CCV-2450	45456	
		HEM	10	19	3/4	9	16	5/8	172	6-3/4	QL6-172CCV-1959	45478	
		HEM	10	19	3/4	8	19	3/4	172	6-3/4	QL6-172CCV-2589	45479	
		12	QL6/QL60 BLOW TUBE									PART NUMBER	
												USA	AUSTRIA
								BTQL6-1014	45097				

### CARBIDE PROFILE DESIGNS

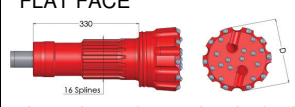
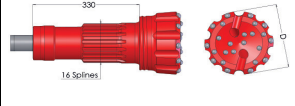


HEM = Hemispherical Carbide; BAL = (Semi) Ballistic Carbide; CP = CrownPoint carbide; CON = Conical carbide; FB = Full Ballistic Carbide; MP = MultiPoint carbide, on request  
 Note: Some button bits may not be offered with a particular carbide design shown above.  
 \* = No shank breakage warranty

# DOWN-THE-HOLE (DTH) BITS INGERSOLL-RAND - QL SERIES



## SHANK: QL8/QL80

NO.	FLAT FACE 	CARBIDE DIMENSIONS						DIAMETER		PART NUMBER		
		CARBIDE DESIGN	GAUGE NO. X DIA.			FRONT NO. X DIA.			D		USA	AUSTRIA
			No.	mm	In.	No.	mm	In.	mm	In.		
13	16 SPLINES 2 FRONT FLUSHING HOLES	HEM	10	19	3/4	14	16	5/8	203	8	QL8-203FF-2073	45318
		HEM	10	19	3/4	14	16	5/8	216	8-1/2	QL8-216FF-2074	45320
		HEM	12	19	3/4	27	16	5/8	254 *	10	QL8-254FF-2075	45322
		HEM	12	19	3/4	37	16	5/8	305 *	12	QL8-305FF-3233	45620
NO.	CONCAVE 	CARBIDE DIMENSIONS						DIAMETER		PART NUMBER		
		CARBIDE DESIGN	GAUGE NO. X DIA.			FRONT NO. X DIA.			D		USA	AUSTRIA
			No.	mm	In.	No.	mm	In.	mm	In.		
14	16 SPLINES 2 FRONT FLUSHING HOLES	HEM	10	19	3/4	14	16	5/8	203	8	QL8-203CC-2076	45319
		HEM	10	19	3/4	14	16	5/8	207	8-1/8	QL8-207CC-2227	45390
		HEM	10	19	3/4	14	16	5/8	216	8-1/2	QL8-216CC-2077	45321
		HEM	10	19	3/4	16	16	5/8	225	8-7/8	QL8-225CC-2229	45391
		HEM	10	19	3/4	16	16	5/8	229	9	QL8-229CC-2231	45392
		HEM	12	19	3/4	23	16	5/8	254 *	10	QL8-254CC-2078	45323
		HEM	12	19	3/4	31	16	5/8	305 *	12	QL8-305CC-3648	45619
NO.	QL8/QL80 BLOW TUBE									PART NUMBER		
										USA	AUSTRIA	
										BTQL8-1015	45117	

## CARBIDE PROFILE DESIGNS



HEM = Hemispherical Carbide; BAL = (Semi) Ballistic Carbide; CP = CrownPoint carbide; CON = Conical carbide; FB = Full Ballistic Carbide; MP = MultiPoint carbide, on request  
 Note: Some button bits may not be offered with a particular carbide design shown above.

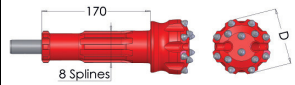
\* = No shank breakage warranty



# DOWN-THE-HOLE (DTH) BITS SANDVIK - MISSION



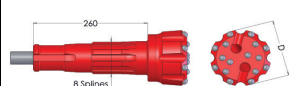
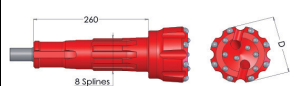
## SHANK: 3015

NO.	CONVEX  8 SPLINES 2 FRONT FLUSHING HOLES ** 3 FRONT FLUSHING HOLES	CARBIDE DIMENSIONS						DIAMETER		PART NUMBER		
		CARBIDE DESIGN	GAUGE NO. X DIA.			FRONT NO. X DIA.			D		USA	AUSTRIA
			No.	mm	In.	No.	mm	In.	mm	In.		
1		HEM	8	12	15/32	6	12	15/32	92	3-5/8	3015-92CV-2593	45282
		FB	8	12	15/32	6	12	15/32	92	3-5/8	3015-92CVB-2547	45281
		FB	9**	12	15/32	6	12	15/32	93	3-11/16	3015-93CVB-2824	45301
		HEM	8	12	15/32	6	12	15/32	95	3-3/4	3015-95CV-2368	45284
		FB	8	12	15/32	6	12	15/32	95	3-3/4	3015-95CVB-2594	45283
		FB	9**	12	15/32	6	12	15/32	95	3-3/4	3015-95CVB-2826	45276
2	3015 BLOW TUBE										PART NUMBER	
											USA	AUSTRIA
											BT3015-1007	45114

## SHANK: 3415, SD4

NO.	FLAT FACE  8 SPLINES 2 FRONT FLUSHING HOLES	CARBIDE DIMENSIONS						DIAMETER		PART NUMBER		
		CARBIDE DESIGN	GAUGE NO. X DIA.			FRONT NO. X DIA.			D		USA	AUSTRIA
			No.	mm	In.	No.	mm	In.	mm	In.		
3		HEM	8	12.7	1/2	8	11	7/16	105	4-1/8	3415-105FF-1627	41221
		HEM	8	12.7	1/2	8	11	7/16	110	4-5/16	3415-110FF-1628	41222
		HEM	8	14	9/16	8	12.7	1/2	115	4-1/2	3415-115FF-1176	41220
		HEM	8	14	9/16	8	12.7	1/2	121	4-3/4	3415-121FF-2199	41280
		HEM	8	14	9/16	8	12.7	1/2	124	4-7/8	3415-124FF-2200	45342
		HEM	8	16	5/8	8	12.7	1/2	127*	5	3415-127FF-1629	41200
5	3415 BLOW TUBE										PART NUMBER	
											USA	AUSTRIA
											BT3415-1008	45090

## SHANK: 4315, SD5

NO.	FLAT FACE  8 SPLINES 2 FRONT FLUSHING HOLES	CARBIDE DIMENSIONS						DIAMETER		PART NUMBER		
		CARBIDE DESIGN	GAUGE NO. X DIA.			FRONT NO. X DIA.			D		USA	AUSTRIA
			No.	mm	In.	No.	mm	In.	mm	In.		
6		HEM	8	16	5/8	8	12.7	1/2	127	5	4315-127FF-831	45004
		HEM	8	16	5/8	8	12.7	1/2	130	5-1/8	4315-130FF-1633	45123
		HEM	8	16	5/8	8	14	9/16	140	5-1/2	4315-140FF-108	45124
		HEM	8	16	5/8	8	16	5/8	146	5-3/4	4315-146FF-1634	45005
		HEM	8	16	5/8	8	16	5/8	152*	6	4315-152FF-2204	45347
7	CONCAVE  8 SPLINES 2 FRONT FLUSHING HOLES	HEM	8	16	5/8	8	12.7	1/2	127	5	4315-127CC-1635	45006
		HEM	8	16	5/8	8	12.7	1/2	130	5-1/8	4315-130CC-1636	45007
		HEM	8	16	5/8	8	14	9/16	140	5-1/2	4315-140CC-109	45008
		HEM	8	16	5/8	8	16	5/8	146	5-3/4	4315-146CC-853	45009
		HEM	8	16	5/8	9	16	5/8	152*	6	4315-152CC-736	41255
8	4315 BLOW TUBE										PART NUMBER	
											USA	AUSTRIA
											BT4315-1009	45091

## CARBIDE PROFILE DESIGNS



HEM = Hemispherical Carbide; BAL = (Semi) Ballistic Carbide; CP = CrownPoint carbide; CON = Conical carbide; FB = Full Ballistic Carbide; MP = MultiPoint carbide, on request  
 Note: Some button bits may not be offered with a particular carbide design shown above.  
 \* = No shank breakage warranty

# DOWN-THE-HOLE (DTH) BITS SANDVIK - MISSION



## SHANK: 5315, SD6

NO.	FLAT FACE	CARBIDE DIMENSIONS						DIAMETER		PART NUMBER		
		CARBIDE DESIGN	GAUGE NO. X DIA.			FRONT NO. X DIA.			D		USA	AUSTRIA
			No.	mm	In.	No.	mm	In.	mm	In.		
9		HEM	8	16	5/8	8	16	5/8	152	6	5315-152FF-1175	45003
		HEM	8	16	5/8	8	16	5/8	156	6-1/8	5315-156FF-673	45010
		HEM	8	16	5/8	8	16	5/8	159	6-1/4	5315-159FF-112	45011
		HEM	8	16	5/8	10	16	5/8	165	6-1/2	5315-165FF-1100	45037
		HEM	10	16	5/8	10	16	5/8	165	6-1/2	5315-165FF-217	45015
		HEM	10	16	5/8	10	16	5/8	172	6-3/4	5315-172FF-1637	45016
		HEM	10	16	5/8	10	16	5/8	178 *	7	5315-178FF-2207	45042
		HEM	10	19	3/4	14	16	5/8	190 *	7-1/2	5315-190FF-2208	45024
		HEM	10	19	3/4	14	16	5/8	200 *	7-7/8	5315-200FF-2209	45026
		HEM	10	19	3/4	14	16	5/8	203 *	8	5315-203FF-830	45017

NO.	CONCAVE	CARBIDE DIMENSIONS						DIAMETER		PART NUMBER		
		CARBIDE DESIGN	GAUGE NO. X DIA.			FRONT NO. X DIA.			D		USA	AUSTRIA
			No.	mm	In.	No.	mm	In.	mm	In.		
10		HEM	8	16	5/8	9	16	5/8	152	6	5315-152CC-111	45012
		HEM	8	16	5/8	9	16	5/8	156	6-1/8	5315-156CC-901	45013
		HEM	8	16	5/8	9	16	5/8	159	6-1/4	5315-159CC-114	45014
		HEM	8	16	5/8	9	16	5/8	165	6-1/2	5315-165CC-236	45038
		HEM	10	16	5/8	10	16	5/8	165	6-1/2	5315-165CC-1638	45018
		HEM	10	16	5/8	10	16	5/8	172	6-3/4	5315-172CC-1422	45019
		HEM	10	16	5/8	10	16	5/8	178 *	7	5315-178CC-1853	45043
		HEM	10	19	3/4	14	16	5/8	190 *	7-1/2	5315-190CC-1845	45025
		HEM	10	19	3/4	14	16	5/8	200 *	7-7/8	5315-200CC-2210	45027
		HEM	10	19	3/4	14	16	5/8	203 *	8	5315-203CC-1364	45020

NO.	5315 BLOW TUBE	PART NUMBER	
		USA	AUSTRIA
		BT5315-1010	45036

## SHANK: 6315, SD8

NO.	FLAT FACE	CARBIDE DIMENSIONS						DIAMETER		PART NUMBER		
		CARBIDE DESIGN	GAUGE NO. X DIA.			FRONT NO. X DIA.			D		USA	AUSTRIA
			No.	mm	In.	No.	mm	In.	mm	In.		
12		HEM	10	19	3/4	14	16	5/8	203	8	6315-203FF-743	45022
		HEM	10	19	3/4	14	16	5/8	207	8-1/8	6315-207FF-2212	45370
		HEM	10	19	3/4	14	16	5/8	216	8-1/2	6315-216FF-829	45023
		HEM	10	19	3/4	16	16	5/8	225	8-7/8	6315-225FF-2214	45372
		HEM	10	19	3/4	16	16	5/8	229	9	6315-229FF-2216	45374
		HEM	12	19	3/4	23	16	5/8	251 *	9-7/8	6315-251FF-2218	45376
		HEM	12	19	3/4	27	16	5/8	254 *	10	6315-254FF-955	45028

NO.	CONCAVE	CARBIDE DIMENSIONS						DIAMETER		PART NUMBER		
		CARBIDE DESIGN	GAUGE NO. X DIA.			FRONT NO. X DIA.			D		USA	AUSTRIA
			No.	mm	In.	No.	mm	In.	mm	In.		
13		HEM	10	19	3/4	14	16	5/8	203	8	6315-203CC-1068	45029
		HEM	10	19	3/4	14	16	5/8	207	8-1/8	6315-207CC-2225	45371
		HEM	10	19	3/4	14	16	5/8	216	8-1/2	6315-216CC-1000	45030
		HEM	10	19	3/4	16	16	5/8	225	8-7/8	6315-225CC-2226	45373
		HEM	10	19	3/4	16	16	5/8	229	9	6315-229CC-1095	45375
		HEM	12	19	3/4	23	16	5/8	251 *	9-7/8	6315-251CC-2050	45377
		HEM	12	19	3/4	23	16	5/8	254 *	10	6315-254CC-1069	45031

NO.	6315 BLOW TUBE	PART NUMBER	
		USA	AUSTRIA
		BT6315-1011	45021

## CARBIDE PROFILE DESIGNS



HEM = Hemispherical Carbide; BAL = (Semi) Ballistic Carbide; CP = CrownPoint carbide; CON = Conical carbide; FB = Full Ballistic Carbide; MP = MultiPoint carbide, on request  
 Note: Some button bits may not be offered with a particular carbide design shown above.

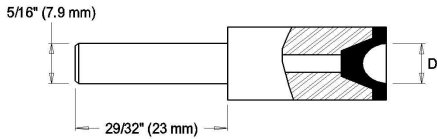
\* = No shank breakage warranty

# GRINDING ACCESSORIES



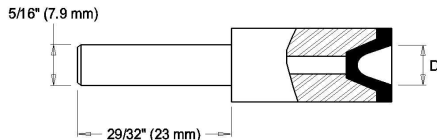
## GRINDING PINS - COMBINATION

HEMISPHERICAL	DIAMETER (D)		PART NUMBER	
	mm	In.	USA	AUSTRIA
	6	1/4	2856CH	46348
7	9/32	2857CH	46203	
8	5/16	2858CH	46204	
9	11/32	2859CH	46205	
10	13/32	28510CH	46206	
11	7/16	28511CH	46207	
12	15/32	28512CH	46208	
13	1/2	28513CH	46248	
14	9/16	28514CH	46223	
15	19/32	28515CH	46349	
16	5/8	28516CH	46228	
17	21/32	28517CH	46350	
18	23/32	28518CH	46351	
19	3/4	28519CH	46352	
20	25/32	28520CH	46353	



## GRINDING PINS - COMBINATION

(SEMI) BALLISTIC	DIAMETER (D)		PART NUMBER	
	mm	In.	USA	AUSTRIA
	6	1/4	2856CB	46354
7	9/32	2857CB	46355	
8	5/16	2858CB	46244	
9	11/32	2859CB	46245	
10	13/32	28510CB	46246	
11	7/16	28511CB	46247	
12	15/32	28512CB	46226	
13	1/2	28513CB	46356	
14	9/16	28514CB	46227	
15	19/32	28515CB	46357	
16	5/8	28516CB	46358	
17	21/32	28517CB	46359	
18	23/32	28518CB	46360	
19	3/4	28519CB	46361	
20	25/32	28520CB	46362	



## HAND-HELD AIR GRINDER

	PART NUMBER	
	USA	AUSTRIA
	MK11	46019


Note:

**Combination** grinding pins are for grinding the carbide buttons and the steel body in one action


# DOWN-THE-HOLE (DTH) HAMMERS




## ROK 2LT (LOW PRESSURE)


<b>ROK 2LT</b> RD 50-6 BOX LOW PRESSURE 	BIT SHANK STYLE		PART NUMBER		
	BULROC 2 (6 SPLINES)		USA	AUSTRIA	
	RECOMMENDED BIT DIAMETER	ROK2LT	42021		
	70 mm - 76 mm 2.8" - 3"				
	OPERATING AIR PRESSURE				
		6 - 10 (BAR)			
		87 - 145 (PSI)			

## ROK 3LT (LOW PRESSURE)


<b>ROK 3LT</b> 2-3/8" API REG PIN LOW PRESSURE 	BIT SHANK STYLE		PART NUMBER		
	BULROC 33 (7 SPLINES)		USA	AUSTRIA	
	RECOMMENDED BIT DIAMETER	ROK3LT	42026		
	90 mm - 95 mm 3.5" - 3.7"				
	OPERATING AIR PRESSURE				
		6 - 10 (BAR)			
		87 - 145 (PSI)			


<b>ROK 3LT-IR35</b> 2-3/8" API REG PIN LOW PRESSURE 	BIT SHANK STYLE		PART NUMBER		
	IR 3.5 MISSION XL 3		USA	AUSTRIA	
	RECOMMENDED BIT DIAMETER	ROK3LT-IR35	42037		
	90 mm - 95 mm 3.5" - 3.7"				
	OPERATING AIR PRESSURE				
		6 - 10 (BAR)			
		87 - 145 (PSI)			

## ROK 250 *Integrated SonicFlow Technology*

<b>ROK 250</b> RD-50 BOX 	BIT SHANK STYLE		PART NUMBER		
	ROCKMORE RM250		USA	AUSTRIA	
	RECOMMENDED BIT DIAMETER	ROK250-004	50010		
	76 mm - 89 mm 3" - 3.5"				
	OPERATING AIR PRESSURE				
		10.4 - 24.1 (BAR)			
		150 - 350 (PSI)			


## ROK 300 *Integrated SonicFlow Technology*






<b>ROK 300</b> 2-3/8" API REG PIN 	BIT SHANK STYLE		PART NUMBER		
	IR 3.5 MISSION XL 3		USA	AUSTRIA	
	RECOMMENDED BIT DIAMETER	ROK300-001	50020		
	88 mm - 105 mm 3.5" - 4.1"				
	OPERATING AIR PRESSURE				
		10.4 - 24.1 (BAR)			
		150 - 350 (PSI)			

<b>ROK 300</b> 2-3/8" API REG BOX 	BIT SHANK STYLE		PART NUMBER		
	IR 3.5 MISSION XL 3		USA	AUSTRIA	
	RECOMMENDED BIT DIAMETER	ROK300-002	50021		
	88 mm - 105 mm 3.5" - 4.1"				
	OPERATING AIR PRESSURE				
		10.4 - 24.1 (BAR)			
		150 - 350 (PSI)			

# DOWN-THE-HOLE (DTH) HAMMERS




<b>ROK 300 (continued)</b>		<b>Integrated SonicFlow Technology</b>	
<b>ROK 300</b> CUBEX #21 PIN WITH SPLINES  	<b>BIT SHANK STYLE</b>	<b>PART NUMBER</b>	
	IR 3.5	<b>USA</b>	<b>AUSTRIA</b>
	MISSION XL 3	ROK300-003	50022
	<b>RECOMMENDED BIT DIAMETER</b>		
	88 mm - 105 mm		
	3.5" - 4.1"		
<b>OPERATING AIR PRESSURE</b>			
10.4 - 24.1 (BAR)			
150 - 350 (PSI)			






<b>ROK 350</b>		<b>Integrated SonicFlow Technology</b>	
<b>ROK 350</b> 2-3/8" API REG PIN  	<b>BIT SHANK STYLE</b>	<b>PART NUMBER</b>	
	IR 3.5	<b>USA</b>	<b>AUSTRIA</b>
	MISSION XL 3	ROK350-001	50030
	<b>RECOMMENDED BIT DIAMETER</b>		
	95 mm - 105 mm		
	3.7" - 4.1"		
<b>OPERATING AIR PRESSURE</b>			
10.4 - 24.1 (BAR)			
150 - 350 (PSI)			
<b>ROK 350</b> 2-3/8" API REG PIN Heavy Duty Bit Retainer Rings IR 3.5 HD Driver Sub  	<b>BIT SHANK STYLE</b>	<b>PART NUMBER</b>	
	IR 3.5 HD	<b>USA</b>	<b>AUSTRIA</b>
	MISSION XL 3	ROK350-002	50031
	<b>RECOMMENDED BIT DIAMETER</b>		
	95 mm - 105 mm		
	3.7" - 4.1"		
<b>OPERATING AIR PRESSURE</b>			
10.4 - 24.1 (BAR)			
150 - 350 (PSI)			
<b>ROK 350</b> 2-3/8" API REG BOX  	<b>BIT SHANK STYLE</b>	<b>PART NUMBER</b>	
	IR 3.5	<b>USA</b>	<b>AUSTRIA</b>
	MISSION XL 3	ROK350-003	50032
	<b>RECOMMENDED BIT DIAMETER</b>		
	95 mm - 105 mm		
	3.7" - 4.1"		
<b>OPERATING AIR PRESSURE</b>			
10.4 - 24.1 (BAR)			
150 - 350 (PSI)			
<b>ROK 350</b> 2-3/8" API REG BOX Heavy Duty Bit Retainer Rings IR 3.5 HD Driver Sub  	<b>BIT SHANK STYLE</b>	<b>PART NUMBER</b>	
	IR 3.5 HD	<b>USA</b>	<b>AUSTRIA</b>
	MISSION XL 3	ROK350-004	50033
	<b>RECOMMENDED BIT DIAMETER</b>		
	95 mm - 105 mm		
	3.7" - 4.1"		
<b>OPERATING AIR PRESSURE</b>			
10.4 - 24.1 (BAR)			
150 - 350 (PSI)			
<b>ROK 350</b> CUBEX #21 PIN WITH SPLINES  	<b>BIT SHANK STYLE</b>	<b>PART NUMBER</b>	
	IR 3.5	<b>USA</b>	<b>AUSTRIA</b>
	MISSION XL 3	ROK350-005	50034
	<b>RECOMMENDED BIT DIAMETER</b>		
	95 mm - 105 mm		
	3.7" - 4.1"		
<b>OPERATING AIR PRESSURE</b>			
10.4 - 24.1 (BAR)			
150 - 350 (PSI)			



# DOWN-THE-HOLE (DTH) HAMMERS










<b>ROK 350 (continued)</b>		<b>Integrated SonicFlow Technology</b>	
<b>ROK 350</b> CUBEX #21 PIN WITH SPLINES Heavy Duty Bit Retainer Rings IR 3.5 HD Driver Sub 	<b>BIT SHANK STYLE</b>	<b>PART NUMBER</b>	
	IR 3.5 HD	<b>USA</b>	<b>AUSTRIA</b>
	<b>RECOMMENDED BIT DIAMETER</b>	ROK350-006	
	95 mm - 105 mm 3.7" - 4.1"		50035
	<b>OPERATING AIR PRESSURE</b>		
	10.4 - 24.1 (BAR) 150 - 350 (PSI)		

<b>ROK 400</b>		<b>Integrated SonicFlow Technology</b>	
<b>ROK 400</b> 2-3/8" API REG PIN 	<b>BIT SHANK STYLE</b>	<b>PART NUMBER</b>	
	INGERSOLL-RAND 340A EPIROC COP 44	<b>USA</b>	<b>AUSTRIA</b>
	<b>RECOMMENDED BIT DIAMETER</b>	ROK400-001	
	110 mm - 125 mm 4.3" - 4.9"		50040
	<b>OPERATING AIR PRESSURE</b>		
	10.4 - 24.1 (BAR) 150 - 350 (PSI)		
<b>ROK 400</b> 2-3/8" API REG BOX 	<b>BIT SHANK STYLE</b>	<b>PART NUMBER</b>	
	INGERSOLL-RAND 340A EPIROC COP 44	<b>USA</b>	<b>AUSTRIA</b>
	<b>RECOMMENDED BIT DIAMETER</b>	ROK400-005	
	110 mm - 125 mm 4.3" - 4.9"		50043
	<b>OPERATING AIR PRESSURE</b>		
	10.4 - 24.1 (BAR) 150 - 350 (PSI)		
<b>ROK 400</b> 2-3/8" API IF PIN 	<b>BIT SHANK STYLE</b>	<b>PART NUMBER</b>	
	INGERSOLL-RAND 340A EPIROC COP 44	<b>USA</b>	<b>AUSTRIA</b>
	<b>RECOMMENDED BIT DIAMETER</b>	ROK400-004	
	110 mm - 125 mm 4.3" - 4.9"		50042
	<b>OPERATING AIR PRESSURE</b>		
	10.4 - 24.1 (BAR) 150 - 350 (PSI)		
<b>ROK 400</b> 2-7/8" API REG PIN 	<b>BIT SHANK STYLE</b>	<b>PART NUMBER</b>	
	INGERSOLL-RAND 340A EPIROC COP 44	<b>USA</b>	<b>AUSTRIA</b>
	<b>RECOMMENDED BIT DIAMETER</b>	ROK400-002	
	110 mm - 125 mm 4.3" - 4.9"		50041
	<b>OPERATING AIR PRESSURE</b>		
	10.4 - 24.1 (BAR) 150 - 350 (PSI)		
<b>ROK 400</b> 2-7/8" API REG BOX 	<b>BIT SHANK STYLE</b>	<b>PART NUMBER</b>	
	INGERSOLL-RAND 340A EPIROC COP 44	<b>USA</b>	<b>AUSTRIA</b>
	<b>RECOMMENDED BIT DIAMETER</b>	ROK400-007	
	110 mm - 125 mm 4.3" - 4.9"		50045
	<b>OPERATING AIR PRESSURE</b>		
	10.4 - 24.1 (BAR) 150 - 350 (PSI)		








# DOWN-THE-HOLE (DTH) HAMMERS



ROK 400 (continued)		Integrated SonicFlow Technology	
<b>ROK 400</b> CUBEX #24 PIN WITH SPLINES 	<b>BIT SHANK STYLE</b>	<b>PART NUMBER</b>	
	INGERSOLL-RAND 340A EPIROC COP 44	<b>USA</b>	<b>AUSTRIA</b>
	<b>RECOMMENDED BIT DIAMETER</b>	ROK400-008	50046
	110 mm - 125 mm 4.3" - 4.9"		
	<b>OPERATING AIR PRESSURE</b>		
	10.4 - 24.1 (BAR) 150 - 350 (PSI)		
<b>ROK 400</b> 2-3/8" API REG PIN 	<b>BIT SHANK STYLE</b>	<b>PART NUMBER</b>	
	EPIROC TD40	<b>USA</b>	<b>AUSTRIA</b>
	<b>RECOMMENDED BIT DIAMETER</b>	ROK400-021	50140
	110 mm - 125 mm 4.3" - 4.9"		
	<b>OPERATING AIR PRESSURE</b>		
	10.4 - 24.1 (BAR) 150 - 350 (PSI)		
<b>ROK 400</b> 2-3/8" API REG BOX 	<b>BIT SHANK STYLE</b>	<b>PART NUMBER</b>	
	EPIROC TD40	<b>USA</b>	<b>AUSTRIA</b>
	<b>RECOMMENDED BIT DIAMETER</b>	ROK400-025	50143
	110 mm - 125 mm 4.3" - 4.9"		
	<b>OPERATING AIR PRESSURE</b>		
	10.4 - 24.1 (BAR) 150 - 350 (PSI)		
<b>ROK 400</b> 2-3/8" API IF PIN 	<b>BIT SHANK STYLE</b>	<b>PART NUMBER</b>	
	EPIROC TD40	<b>USA</b>	<b>AUSTRIA</b>
	<b>RECOMMENDED BIT DIAMETER</b>	ROK400-024	50142
	110 mm - 125 mm 4.3" - 4.9"		
	<b>OPERATING AIR PRESSURE</b>		
	10.4 - 24.1 (BAR) 150 - 350 (PSI)		
<b>ROK 400</b> 2-7/8" API REG PIN 	<b>BIT SHANK STYLE</b>	<b>PART NUMBER</b>	
	EPIROC TD40	<b>USA</b>	<b>AUSTRIA</b>
	<b>RECOMMENDED BIT DIAMETER</b>	ROK400-022	50141
	110 mm - 125 mm 4.3" - 4.9"		
	<b>OPERATING AIR PRESSURE</b>		
	10.4 - 24.1 (BAR) 150 - 350 (PSI)		
<b>ROK 400</b> 2-7/8" API REG BOX 	<b>BIT SHANK STYLE</b>	<b>PART NUMBER</b>	
	EPIROC TD40	<b>USA</b>	<b>AUSTRIA</b>
	<b>RECOMMENDED BIT DIAMETER</b>	ROK400-027	50144
	110 mm - 125 mm 4.3" - 4.9"		
	<b>OPERATING AIR PRESSURE</b>		
	10.4 - 24.1 (BAR) 150 - 350 (PSI)		
<b>ROK 400</b> CUBEX #24 PIN WITH SPLINES 	<b>BIT SHANK STYLE</b>	<b>PART NUMBER</b>	
	EPIROC TD40	<b>USA</b>	<b>AUSTRIA</b>
	<b>RECOMMENDED BIT DIAMETER</b>	ROK400-028	50145
	110 mm - 125 mm 4.3" - 4.9"		
	<b>OPERATING AIR PRESSURE</b>		
	10.4 - 24.1 (BAR) 150 - 350 (PSI)		


# DOWN-THE-HOLE (DTH) HAMMERS








<b>ROK 550A</b>		<i>Integrated SonicFlow Technology</i>	
<b>ROK 550A</b> 2-3/8" API REG PIN Lower Air Consumption 	<b>BIT SHANK STYLE</b>	<b>PART NUMBER</b>	
	INGERSOLL-RAND QL5/QL50	USA	AUSTRIA
	<b>RECOMMENDED BIT DIAMETER</b>	ROK550A-003	50450
	140 mm - 152 mm 5.5" - 6"		
	<b>OPERATING AIR PRESSURE</b>		
	10.4 - 24.1 (BAR) 150 - 350 (PSI)		
<b>ROK 550A</b> 2-3/8" API REG PIN Top Sub With Back Reaming Buttons Lower Air Consumption 	<b>BIT SHANK STYLE</b>	<b>PART NUMBER</b>	
	INGERSOLL-RAND QL5/QL50	USA	AUSTRIA
	<b>RECOMMENDED BIT DIAMETER</b>	ROK550A-004	50451
	140 mm - 152 mm 5.5" - 6"		
	<b>OPERATING AIR PRESSURE</b>		
	10.4 - 24.1 (BAR) 150 - 350 (PSI)		
<b>ROK 550A</b> 2-3/8" API REG PIN Lower Air Consumption Slim Line Diameter 	<b>BIT SHANK STYLE</b>	<b>PART NUMBER</b>	
	INGERSOLL-RAND QL5/QL50	USA	AUSTRIA
	<b>RECOMMENDED BIT DIAMETER</b>	ROK550A-009	50455
	133 mm - 146 mm 5.25" - 5.75"		
	<b>OPERATING AIR PRESSURE</b>		
	10.4 - 24.1 (BAR) 150 - 350 (PSI)		
<b>ROK 550A</b> 2-7/8" API REG PIN Lower Air Consumption 	<b>BIT SHANK STYLE</b>	<b>PART NUMBER</b>	
	INGERSOLL-RAND QL5/QL50	USA	AUSTRIA
	<b>RECOMMENDED BIT DIAMETER</b>	ROK550A-005	50452
	140 mm - 152 mm 5.5" - 6"		
	<b>OPERATING AIR PRESSURE</b>		
	10.4 - 24.1 (BAR) 150 - 350 (PSI)		
<b>ROK 550A</b> 2-7/8" API REG PIN Top Sub With Back Reaming Buttons Lower Air Consumption 	<b>BIT SHANK STYLE</b>	<b>PART NUMBER</b>	
	INGERSOLL-RAND QL5/QL50	USA	AUSTRIA
	<b>RECOMMENDED BIT DIAMETER</b>	ROK550A-006	50453
	140 mm - 152 mm 5.5" - 6"		
	<b>OPERATING AIR PRESSURE</b>		
	10.4 - 24.1 (BAR) 150 - 350 (PSI)		
<b>ROK 550A</b> 3-1/2" API REG PIN Lower Air Consumption 	<b>BIT SHANK STYLE</b>	<b>PART NUMBER</b>	
	INGERSOLL-RAND QL5/QL50	USA	AUSTRIA
	<b>RECOMMENDED BIT DIAMETER</b>	ROK550A-001	50257
	140 mm - 152 mm 5.5" - 6"		
	<b>OPERATING AIR PRESSURE</b>		
	10.4 - 24.1 (BAR) 150 - 350 (PSI)		
<b>ROK 550A</b> 3-1/2" API REG PIN Top Sub With Back Reaming Buttons Lower Air Consumption 	<b>BIT SHANK STYLE</b>	<b>PART NUMBER</b>	
	INGERSOLL-RAND QL5/QL50	USA	AUSTRIA
	<b>RECOMMENDED BIT DIAMETER</b>	ROK550A-002	50258
	140 mm - 152 mm 5.5" - 6"		
	<b>OPERATING AIR PRESSURE</b>		
	10.4 - 24.1 (BAR) 150 - 350 (PSI)		

# DOWN-THE-HOLE (DTH) HAMMERS






<b>ROK 550A (continued)</b>		<b>Integrated SonicFlow Technology</b>	
<b>ROK 550A</b> 3-1/2" API REG PIN Lower Air Consumption Slim Line Diameter 	<b>BIT SHANK STYLE</b>	<b>PART NUMBER</b>	
	INGERSOLL-RAND QL5/QL50	<b>USA</b>	<b>AUSTRIA</b>
	<b>RECOMMENDED BIT DIAMETER</b>	<b>ROK550A-007</b>	
	133 mm - 146 mm 5.25" - 5.75"		
	<b>OPERATING AIR PRESSURE</b>		
	10.4 - 24.1 (BAR) 150 - 350 (PSI)		


<b>ROK 550T (TUBELESS)</b>		<b>Integrated SonicFlow Technology</b>	
<b>ROK 550T</b> 3-1/2" API REG PIN Tubeless (Bit without Blow Tube) Lower Air Consumption  <b>X TUBELESS X</b>	<b>BIT SHANK STYLE</b>	<b>PART NUMBER</b>	
	QL5T (INGERSOLL-RAND QL5/QL50 WITHOUT BLOW TUBE)	<b>USA</b>	<b>AUSTRIA</b>
	<b>RECOMMENDED BIT DIAMETER</b>	<b>ROK550T-001</b>	
	140 mm - 152 mm 5.5" - 6"		
	<b>OPERATING AIR PRESSURE</b>		
	10.4 - 24.1 (BAR) 150 - 350 (PSI)		



<b>ROK 55A-350R</b>		<b>Integrated SonicFlow Technology</b>	
<b>ROK 55A-350R</b> 2-3/8" API REG PIN 	<b>BIT SHANK STYLE</b>	<b>PART NUMBER</b>	
	INGERSOLL-RAND 350R	<b>USA</b>	<b>AUSTRIA</b>
	<b>RECOMMENDED BIT DIAMETER</b>	<b>ROK55A-350R-002</b>	
	140 mm - 152 mm 5.5" - 6"		
	<b>OPERATING AIR PRESSURE</b>		
	10.4 - 24.1 (BAR) 150 - 350 (PSI)		
<b>ROK 55A-350R</b> 2-3/8" API REG PIN Top Sub With Back Reaming Buttons 	<b>BIT SHANK STYLE</b>	<b>PART NUMBER</b>	
	INGERSOLL-RAND 350R	<b>USA</b>	<b>AUSTRIA</b>
	<b>RECOMMENDED BIT DIAMETER</b>	<b>ROK55A-350R-003</b>	
	140 mm - 152 mm 5.5" - 6"		
	<b>OPERATING AIR PRESSURE</b>		
	10.4 - 24.1 (BAR) 150 - 350 (PSI)		
<b>ROK 55A-350R</b> 2-7/8" API REG PIN 	<b>BIT SHANK STYLE</b>	<b>PART NUMBER</b>	
	INGERSOLL-RAND 350R	<b>USA</b>	<b>AUSTRIA</b>
	<b>RECOMMENDED BIT DIAMETER</b>	<b>ROK55A-350R-005</b>	
	140 mm - 152 mm 5.5" - 6"		
	<b>OPERATING AIR PRESSURE</b>		
	10.4 - 24.1 (BAR) 150 - 350 (PSI)		
<b>ROK 55A-350R</b> 2-7/8" API REG PIN Top Sub With Back Reaming Buttons 	<b>BIT SHANK STYLE</b>	<b>PART NUMBER</b>	
	INGERSOLL-RAND 350R	<b>USA</b>	<b>AUSTRIA</b>
	<b>RECOMMENDED BIT DIAMETER</b>	<b>ROK55A-350R-006</b>	
	140 mm - 152 mm 5.5" - 6"		
	<b>OPERATING AIR PRESSURE</b>		
	10.4 - 24.1 (BAR) 150 - 350 (PSI)		

# DOWN-THE-HOLE (DTH) HAMMERS



<b>ROK 55A-350R</b> (continued)		<b>Integrated SonicFlow Technology</b>	
<b>ROK 55A-350R</b> 3-1/2" API REG PIN 	<b>BIT SHANK STYLE</b>	<b>PART NUMBER</b>	
	INGERSOLL-RAND 350R	USA	AUSTRIA
	<b>RECOMMENDED BIT DIAMETER</b>	ROK55A-350R-001	50256
	140 mm - 152 mm 5.5" - 6"		
	<b>OPERATING AIR PRESSURE</b>		
	10.4 - 24.1 (BAR) 150 - 350 (PSI)		
<b>ROK 55A-350R</b> 3-1/2" API REG PIN Top Sub With Back Reaming Buttons 	<b>BIT SHANK STYLE</b>	<b>PART NUMBER</b>	
	INGERSOLL-RAND 350R	USA	AUSTRIA
	<b>RECOMMENDED BIT DIAMETER</b>	ROK55A-350R-004	50354
	140 mm - 152 mm 5.5" - 6"		
	<b>OPERATING AIR PRESSURE</b>		
	10.4 - 24.1 (BAR) 150 - 350 (PSI)		
<b>ROK 55A-350R</b> 3-1/2" API REG PIN Slim Line Diameter 	<b>BIT SHANK STYLE</b>	<b>PART NUMBER</b>	
	INGERSOLL-RAND 350R	USA	AUSTRIA
	<b>RECOMMENDED BIT DIAMETER</b>	ROK55A-350R-007	50357
	133 mm - 146 mm 5.25" - 5.75"		
	<b>OPERATING AIR PRESSURE</b>		
	10.4 - 24.1 (BAR) 150 - 350 (PSI)		



<b>ROK 55T-350RT (TUBELESS)</b>		<b>Integrated SonicFlow Technology</b>	
<b>ROK 55T-350RT</b> 3-1/2" API REG PIN Tubeless (Bit without Blow Tube) Lower Air Consumption  <b>X TUBELESS X</b>	<b>BIT SHANK STYLE</b>	<b>PART NUMBER</b>	
	350RT (INGERSOLL-RAND 350R WITHOUT BLOW TUBE)	USA	AUSTRIA
	<b>RECOMMENDED BIT DIAMETER</b>	ROK55T-350RT-001	50252
	140 mm - 152 mm 5.5" - 6"		
	<b>OPERATING AIR PRESSURE</b>		
	10.4 - 24.1 (BAR) 150 - 350 (PSI)		





<b>ROK 600A</b>		<b>Integrated SonicFlow Technology</b>	
<b>ROK 600A</b> 2-7/8" API REG PIN Lower Air Consumption 	<b>BIT SHANK STYLE</b>	<b>PART NUMBER</b>	
	INGERSOLL-RAND QL6/QL60	USA	AUSTRIA
	<b>RECOMMENDED BIT DIAMETER</b>	ROK600A-005	50167
	155 mm - 178 mm 6.1" - 7"		
	<b>OPERATING AIR PRESSURE</b>		
	10.4 - 24.1 (BAR) 150 - 350 (PSI)		
<b>ROK 600A</b> 2-7/8" API REG PIN Top Sub With Back Reaming Buttons Lower Air Consumption 	<b>BIT SHANK STYLE</b>	<b>PART NUMBER</b>	
	INGERSOLL-RAND QL6/QL60	USA	AUSTRIA
	<b>RECOMMENDED BIT DIAMETER</b>	ROK600A-002	50160
	155 mm - 178 mm 6.1" - 7"		
	<b>OPERATING AIR PRESSURE</b>		
	10.4 - 24.1 (BAR) 150 - 350 (PSI)		



# DOWN-THE-HOLE (DTH) HAMMERS





<b>ROK 600A (continued)</b>		<b>Integrated SonicFlow Technology</b>	
<b>ROK 600A</b> 3-1/2" API REG PIN Lower Air Consumption 	<b>BIT SHANK STYLE</b>	<b>PART NUMBER</b>	
	INGERSOLL-RAND QL6/QL60	<b>USA</b>	<b>AUSTRIA</b>
	<b>RECOMMENDED BIT DIAMETER</b>	<b>ROK600A-001</b>	
	155 mm - 178 mm 6.1" - 7"		
	<b>OPERATING AIR PRESSURE</b>		
10.4 - 24.1 (BAR) 150 - 350 (PSI)			
<b>ROK 600A</b> 3-1/2" API REG PIN Top Sub With Back Reaming Buttons Lower Air Consumption 	<b>BIT SHANK STYLE</b>	<b>PART NUMBER</b>	
	INGERSOLL-RAND QL6/QL60	<b>USA</b>	<b>AUSTRIA</b>
	<b>RECOMMENDED BIT DIAMETER</b>	<b>ROK600A-004</b>	
	155 mm - 178 mm 6.1" - 7"		
	<b>OPERATING AIR PRESSURE</b>		
10.4 - 24.1 (BAR) 150 - 350 (PSI)			





<b>ROK 600T (TUBELESS)</b>		<b>Integrated SonicFlow Technology</b>	
<b>ROK 600T</b> 2-7/8" API REG PIN Tubeless (Bit without Blow Tube)  <b>X TUBELESS X</b>	<b>BIT SHANK STYLE</b>	<b>PART NUMBER</b>	
	QL6T (INGERSOLL-RAND QL6/QL60 WITHOUT BLOW TUBE)	<b>USA</b>	<b>AUSTRIA</b>
	<b>RECOMMENDED BIT DIAMETER</b>	<b>ROK600T-002</b>	
	155 mm - 178 mm 6.1" - 7"		
	<b>OPERATING AIR PRESSURE</b>		
10.4 - 24.1 (BAR) 150 - 350 (PSI)			
<b>ROK 600T</b> 2-7/8" API REG PIN Tubeless (Bit without Blow Tube) Top Sub With Back Reaming Buttons  <b>X TUBELESS X</b>	<b>BIT SHANK STYLE</b>	<b>PART NUMBER</b>	
	QL6T (INGERSOLL-RAND QL6/QL60 WITHOUT BLOW TUBE)	<b>USA</b>	<b>AUSTRIA</b>
	<b>RECOMMENDED BIT DIAMETER</b>	<b>ROK600T-003</b>	
	155 mm - 178 mm 6.1" - 7"		
	<b>OPERATING AIR PRESSURE</b>		
10.4 - 24.1 (BAR) 150 - 350 (PSI)			
<b>ROK 600T</b> 3-1/2" API REG PIN Tubeless (Bit without Blow Tube)  <b>X TUBELESS X</b>	<b>BIT SHANK STYLE</b>	<b>PART NUMBER</b>	
	QL6T (INGERSOLL-RAND QL6/QL60 WITHOUT BLOW TUBE)	<b>USA</b>	<b>AUSTRIA</b>
	<b>RECOMMENDED BIT DIAMETER</b>	<b>ROK600T-001</b>	
	155 mm - 178 mm 6.1" - 7"		
	<b>OPERATING AIR PRESSURE</b>		
10.4 - 24.1 (BAR) 150 - 350 (PSI)			
<b>ROK 600T</b> 3-1/2" API REG PIN Tubeless (Bit without Blow Tube) Top Sub With Back Reaming Buttons  <b>X TUBELESS X</b>	<b>BIT SHANK STYLE</b>	<b>PART NUMBER</b>	
	QL6T (INGERSOLL-RAND QL6/QL60 WITHOUT BLOW TUBE)	<b>USA</b>	<b>AUSTRIA</b>
	<b>RECOMMENDED BIT DIAMETER</b>	<b>ROK600T-005</b>	
	155 mm - 178 mm 6.1" - 7"		
	<b>OPERATING AIR PRESSURE</b>		
10.4 - 24.1 (BAR) 150 - 350 (PSI)			

# DOWN-THE-HOLE (DTH) HAMMERS



ROK 60-360 3-1/2" API REG PIN		Integrated SonicFlow Technology	
		BIT SHANK STYLE	PART NUMBER
	INGERSOLL-RAND 360	USA	AUSTRIA
	RECOMMENDED BIT DIAMETER	ROK60-360-001	50065
	155 mm - 178 mm 6.1" - 7"		
	OPERATING AIR PRESSURE		
	10.4 - 24.1 (BAR) 150 - 350 (PSI)		



ROK 60T-360T (TUBELESS) 3-1/2" API REG PIN Tubeless (Bit without Blow Tube) Lower Air Consumption		Integrated SonicFlow Technology	
		BIT SHANK STYLE	PART NUMBER
 <b>X TUBELESS X</b>	360T (INGERSOLL-RAND 360 WITHOUT BLOW TUBE)	USA	AUSTRIA
	RECOMMENDED BIT DIAMETER	ROK60T-360T-001	50164
	155 mm - 178 mm 6.1" - 7"		
	OPERATING AIR PRESSURE		
	10.4 - 24.1 (BAR) 150 - 350 (PSI)		

ROK 650A		Integrated SonicFlow Technology	
		BIT SHANK STYLE	PART NUMBER
<b>ROK 650A</b> 2-7/8" API REG PIN Top Sub With Back Reaming Buttons Heavy Duty Diameter Lower Air Consumption  	INGERSOLL-RAND QL6/QL60	USA	AUSTRIA
	RECOMMENDED BIT DIAMETER	ROK650A-008	50079
	165 mm - 178 mm 6.5" - 7"		
	OPERATING AIR PRESSURE		
	10.4 - 24.1 (BAR) 150 - 350 (PSI)		
<b>ROK 650A</b> 3-1/2" API REG PIN Top Sub With Back Reaming Buttons Heavy Duty Diameter Lower Air Consumption  	INGERSOLL-RAND QL6/QL60	USA	AUSTRIA
	RECOMMENDED BIT DIAMETER	ROK650A-001	50075
	165 mm - 178 mm 6.5" - 7"		
	OPERATING AIR PRESSURE		
	10.4 - 24.1 (BAR) 150 - 350 (PSI)		
<b>ROK 650A</b> 3-1/2" API BECO PIN Heavy Duty Diameter Lower Air Consumption  	INGERSOLL-RAND QL6/QL60	USA	AUSTRIA
	RECOMMENDED BIT DIAMETER	ROK650A-009	50171
	165 mm - 178 mm 6.5" - 7"		
	OPERATING AIR PRESSURE		
	10.4 - 24.1 (BAR) 150 - 350 (PSI)		
<b>ROK 650A</b> CUBEX #28 PIN WITH SPLINES Top Sub With Back Reaming Buttons Heavy Duty Diameter Lower Air Consumption  	INGERSOLL-RAND QL6/QL60	USA	AUSTRIA
	RECOMMENDED BIT DIAMETER	ROK650A-007	50078
	165 mm - 178 mm 6.5" - 7"		
	OPERATING AIR PRESSURE		
	10.4 - 24.1 (BAR) 150 - 350 (PSI)		


# DOWN-THE-HOLE (DTH) HAMMERS




## ROK 650M *Integrated SonicFlow Technology*

ROK 650M 2-7/8" API REG PIN Top Sub With Back Reaming Buttons Heavy Duty Diameter Lower Air Consumption In-Hole Bit/Driver Sub Disassembly 	BIT SHANK STYLE	PART NUMBER	
		INGERSOLL-RAND QL6/QL60	USA
	<b>RECOMMENDED BIT DIAMETER</b>	ROK650M-003	50177
	165 mm - 178 mm 6.5" - 7"		
	<b>OPERATING AIR PRESSURE</b>		
	10.4 - 24.1 (BAR) 150 - 350 (PSI)		
ROK 650M 3-1/2" API REG PIN Top Sub With Back Reaming Buttons Heavy Duty Diameter Lower Air Consumption In-Hole Bit/Driver Sub Disassembly 	BIT SHANK STYLE	PART NUMBER	
	INGERSOLL-RAND QL6/QL60	USA	AUSTRIA
	<b>RECOMMENDED BIT DIAMETER</b>	ROK650M-001	50173
	165 mm - 178 mm 6.5" - 7"		
	<b>OPERATING AIR PRESSURE</b>		
	10.4 - 24.1 (BAR) 150 - 350 (PSI)		


## ROK 650T *Integrated SonicFlow Technology*

ROK 650T 3-1/2" API REG PIN Tubeless (Bit without Blow Tube) Top Sub With Back Reaming Buttons Heavy Duty Diameter  <b>X TUBELESS X</b>	BIT SHANK STYLE	PART NUMBER	
		QL6T (INGERSOLL-RAND QL6/QL60 WITHOUT BLOW TUBE)	USA
	<b>RECOMMENDED BIT DIAMETER</b>	ROK650T-001	50172
	165 mm - 178 mm 6.5" - 7"		
	<b>OPERATING AIR PRESSURE</b>		
	10.4 - 24.1 (BAR) 150 - 350 (PSI)		

## ROK 65-360 *Integrated SonicFlow Technology*


ROK 65-360 3-1/2" API REG PIN Top Sub With Back Reaming Buttons Heavy Duty Diameter 	BIT SHANK STYLE	PART NUMBER	
		INGERSOLL-RAND 360	USA
	<b>RECOMMENDED BIT DIAMETER</b>	ROK65-360-001	50175
	165 mm - 178 mm 6.5" - 7"		
	<b>OPERATING AIR PRESSURE</b>		
	10.4 - 24.1 (BAR) 150 - 350 (PSI)		



## ROK 65T-360T *Integrated SonicFlow Technology*


ROK 65T-360T 3-1/2" API REG PIN Tubeless (Bit without Blow Tube) Top Sub With Back Reaming Buttons Heavy Duty Diameter  <b>X TUBELESS X</b>	BIT SHANK STYLE	PART NUMBER	
		360T (INGERSOLL-RAND 360 WITHOUT BLOW TUBE)	USA
	<b>RECOMMENDED BIT DIAMETER</b>	ROK65T-360T-001	50176
	165 mm - 178 mm 6.5" - 7"		
	<b>OPERATING AIR PRESSURE</b>		
	10.4 - 24.1 (BAR) 150 - 350 (PSI)		


# DOWN-THE-HOLE (DTH) HAMMERS



<b>ROK 800A</b>		<i>Integrated SonicFlow Technology</i>	
<b>ROK 800A</b> 4-1/2" API REG PIN Lower Air Consumption 	<b>BIT SHANK STYLE</b>	<b>PART NUMBER</b>	
	INGERSOLL-RAND QL8/QL80	USA	AUSTRIA
	<b>RECOMMENDED BIT DIAMETER</b>	ROK800A-001	50081
	200 mm - 254 mm 7.9" - 10"		
	<b>OPERATING AIR PRESSURE</b>		
	10.4 - 24.1 (BAR) 150 - 350 (PSI)		

<b>ROK 875A</b>		<i>Integrated SonicFlow Technology</i>	
<b>ROK 875A</b> 4-1/2" API REG PIN Top Sub With Back Reaming Buttons Lower Air Consumption 	<b>BIT SHANK STYLE</b>	<b>PART NUMBER</b>	
	INGERSOLL-RAND QL8/QL80	USA	AUSTRIA
	<b>RECOMMENDED BIT DIAMETER</b>	ROK875A-001	50094
	215 mm - 254 mm 8.5" - 10"		
	<b>OPERATING AIR PRESSURE</b>		
	10.4 - 24.1 (BAR) 150 - 350 (PSI)		
<b>ROK 875A</b> 4-1/2" BECO PIN Top Sub With Back Reaming Buttons Lower Air Consumption 	<b>BIT SHANK STYLE</b>	<b>PART NUMBER</b>	
	INGERSOLL-RAND QL8/QL80	USA	AUSTRIA
	<b>RECOMMENDED BIT DIAMETER</b>	ROK875A-002	50096
	215 mm - 254 mm 8.5" - 10"		
	<b>OPERATING AIR PRESSURE</b>		
	10.4 - 24.1 (BAR) 150 - 350 (PSI)		

<b>ROK 87A-380</b>		<i>Integrated SonicFlow Technology</i>	
<b>ROK 87A-380</b> 4-1/2" API REG PIN Top Sub With Back Reaming Buttons Lower Air Consumption 	<b>BIT SHANK STYLE</b>	<b>PART NUMBER</b>	
	INGERSOLL-RAND 380	USA	AUSTRIA
	<b>RECOMMENDED BIT DIAMETER</b>	ROK87A-380-001	50086
	215 mm - 254 mm 8.5" - 10"		
	<b>OPERATING AIR PRESSURE</b>		
	10.4 - 24.1 (BAR) 150 - 350 (PSI)		

<b>DTH HAMMER ROCK DRILL OIL</b>			
	<b>TYPE</b>	<b>PART NUMBER</b>	
	Hammer Oil	USA	AUSTRIA
	<b>DESCRIPTION</b>	HAMMER-GUARD-5-GAL	46460
	40 Lbs (5 Gal.)		





**ROCKMORE**  
INTERNATIONAL  
*Rock Drilling Tools*



## The Next Generation Carbide Insert

# MULTIPOINT



- Unique multiple contact carbide points
- Exclusive ROCKMORE design
- Smoother bit rotation & advancement
- More efficient rock fracture
- Longer insert life
- Faster penetration rates



[www.rockmore-intl.com](http://www.rockmore-intl.com)







# ROCKMORE INTERNATIONAL



Mining • Construction



Quarrying • Water-well

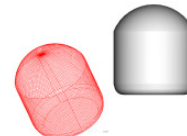
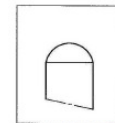
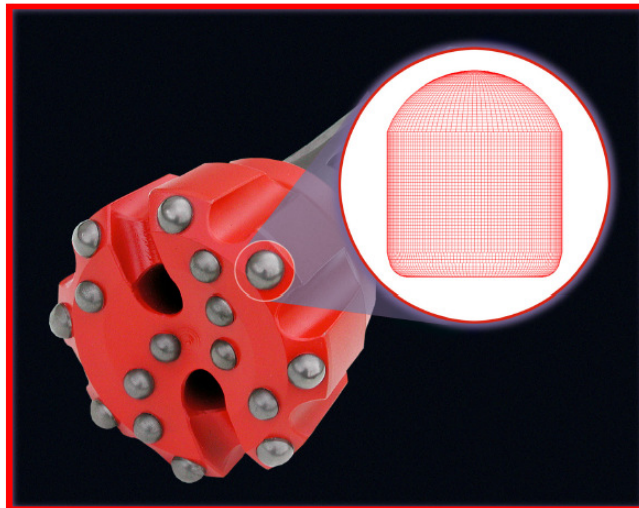
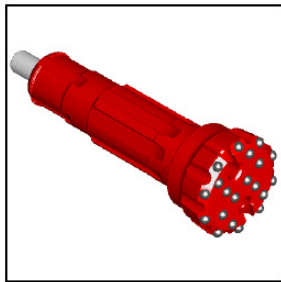
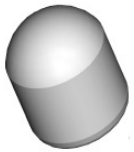


# **MARATHON** Carbide

Grade



ROCKMORE International introduces the new **MARATHON** grade carbide developed for the toughest drilling conditions. **MARATHON** is designed to achieve optimum hardness and toughness properties to promote longer button insert life for the most demanding hard and abrasive rock conditions.



... Run Faster, Longer & Harder with **MARATHON** Carbide ...



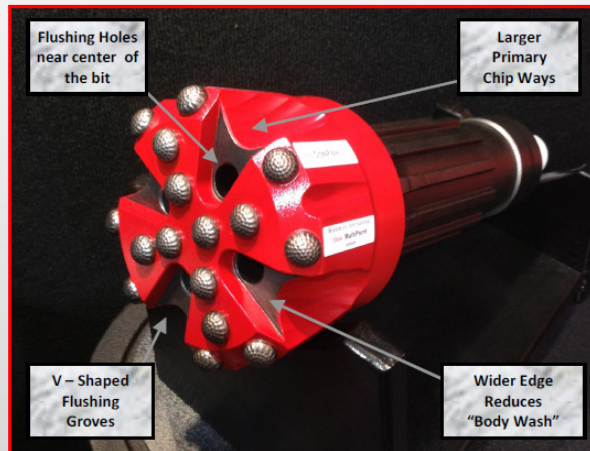
**ROCK MORE**  
INTERNATIONAL  
Rock Drilling Tools



# NEW CROSSFLOW BIT DESIGN

Designed to reduce operating costs in drilling blast hole patterns. The **CrossFlow** bit increases overall drilling productivity by incorporating enhancements in the bit face design and improvements in the configuration of flushing geometry.

- ❖ OPTIMAL FOR HARD AND ABRASIVE ROCK
- ❖ OFFERED IN STANDARD, RETRAC AND DTH BITS
- ❖ FLUSHING HOLES PLACED NEAR BIT CENTER TO IMPROVE FLUSHING
- ❖ FLUSHING HOLES LOCATED ONLY WITHIN THE FLUSHING GROOVES



- ❖ LARGER FLUSHING GROOVES TO EFFECTIVELY MOVE THE ROCK CUTTINGS AWAY FROM THE BIT FACE
- ❖ V SHAPED FLUSH GROOVES REDUCE "BODY WASH"
- ❖ PROLONGED BIT LIFE AND INCREASED DRILLING PENETRATION RATES
- ❖ INCREASED DRILLING EFFICIENCY AND REDUCED OPERATING COSTS

## AVAILABLE WITH THE FOLLOWING CARBIDE PROFILES



SEMI BALLISTIC



CROWN POINT



HEMISPHERICAL



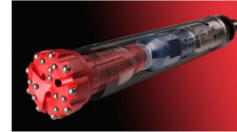
MULTIPOINT



# ROK HAMMER PARTS BREAK-DOWN



**ROCK MORE**  
INTERNATIONAL  
Rock Drilling Tools

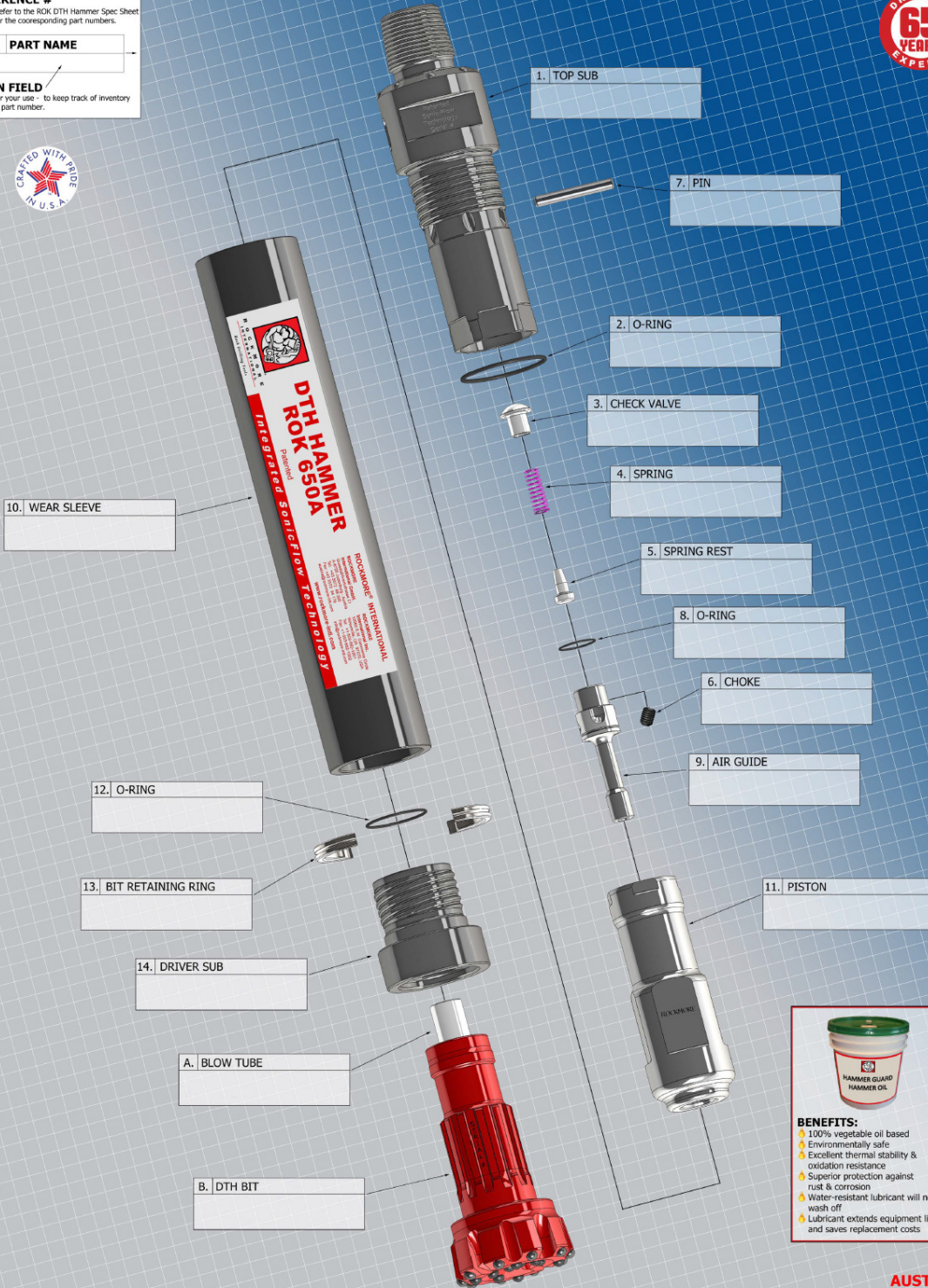


**SONICFLOW**

**REFERENCE #**  
refer to the ROK DTH Hammer Spec Sheet for the corresponding part numbers.

#	PART NAME

**OPEN FIELD**  
For your use - to keep track of inventory or part number.



**BENEFITS:**

- 100% vegetable oil based
- Environmentally safe
- Excellent thermal stability & oxidation resistance
- Superior protection against rust & corrosion
- Water-resistant lubricant will not wash off
- Lubricant extends equipment life and saves replacement costs

**USA**  
10065 SW Commerce Circle  
Wilsonville, OR 97070 USA  
Ph: +1 503-682-1001  
Email: info@rockmore-intl.com

[www.rockmore-intl.com](http://www.rockmore-intl.com)

**AUSTRIA**  
Collini - Strasse 2  
A-8750 Judenburg, Austria  
Ph: +43 3572-86300  
Email: austria@rockmore-intl.at





**ROCK MORE**  
INTERNATIONAL  
*Rock Drilling Tools*



**NEW**

**ROK 250**

**HIGH  
PRESSURE**

**2" Class DTH Hammer**



- ◆ Designed to Operate at Higher Air Pressure up to 350 PSI [24 Bar]
- ◆ 3" to 3.5" [76 - 89mm] Diameter Holes
- ◆ Patented Design and Technology
- ◆ Exclusive Patented SonicFlow Air Path Design
- ◆ Maximum Energy to Piston
- ◆ Superior Penetration Rates



mining  
quarrying  
construction  
geothermal  
exploration  
water-well



[www.rockmore-intl.com](http://www.rockmore-intl.com)





ROCK MORE  
INTERNATIONAL

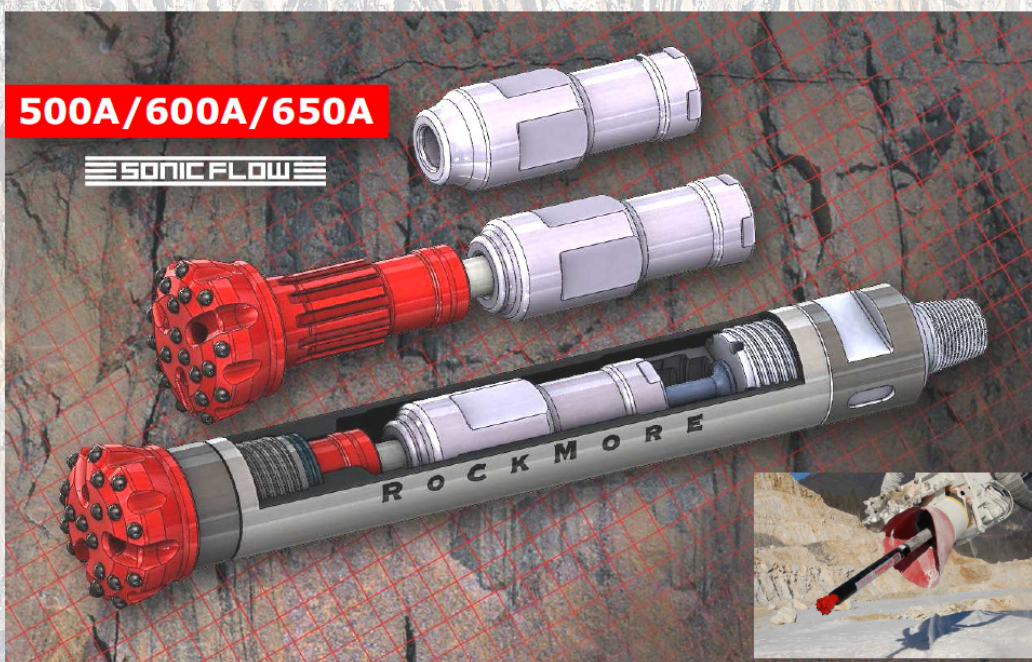
Rock Drilling Tools



**NEW**

# ROK "A" Series

## 5" & 6" CLASS DTH HAMMERS



**500A/600A/650A**

**SONICFLOW**

- ◆ 5" & 6" class "A" Series DTH hammers
- ◆ Standard QL Shank
- ◆ Suited for lower compressor settings
- ◆ Reduced number of hammer components
- ◆ Increased airflow efficiency
- ◆ Higher performance & penetration rates
- ◆ More efficient use of compressed air
- ◆ Reduced drilling operating costs



mining  
 •  
 construction  
 •  
 quarrying  
 •  
 water-well







**NEW**



**ROCKMORE**  
INTERNATIONAL  
*Rock Drilling Tools*

**TUBELESS**



# X ROK "T" Series X

## 5" & 6" CLASS DTH HAMMERS



- ◆ 5" & 6" class "T" Series TUBELESS DTH hammers (QL5/QL50, QL6/QL60)
- ◆ Industry standard bit shanks
- ◆ Designed for drill bits without a Blow Tube / Foot Valve
- ◆ Eliminates catastrophic Blow Tube / Foot Valve breakage
- ◆ Increased airflow efficiency
- ◆ Higher performance & penetration rates with more efficient drill times
- ◆ Improved reliability
- ◆ Reduced costly down time and drilling operating costs



mining  
•  
construction  
•  
quarrying  
•  
water-well





**ROCKMORE**  
INTERNATIONAL  
Rock Drilling Tools



# HAMMER GUARD HAMMER OIL

**HAMMER GUARD** is an environmentally safe vegetable oil based rock drill lubricant used in DTH Hammers and other drill tool applications.

**APPLICATION:**

Rockmore Hammer Guard is a unique, environmentally safe, vegetable oil based lubricant recommended for high-speed hammers, top hammers, DTH Hammers, rock drills, percussive drills, casing drivers and other pneumatic equipment that is commonly used in the mining and drilling industry.



**BENEFITS:**

- 💧 100% vegetable oil based
- 💧 Environmentally safe
- 💧 Excellent thermal stability & oxidation resistance
- 💧 Superior protection against rust & corrosion
- 💧 Water-resistant lubricant will not wash off
- 💧 Lubricant extends equipment life and saves replacement costs

Rockmore Hammer Guard Hammer Oil Specifications	
<b>Kinematic Viscosity</b>	
cSt at 100°C	8.42
cSt at 40°C	46.0
SUS at 210°F	53.4
SUS at 100°F	211.9
<b>Viscosity Index (VI)</b>	214
<b>Specific Gravity at 25°C</b>	.907
<b>Pour Point</b>	-36°C / -32.8°F
<b>Flash Point</b>	292°C / 557°F
<b>Rockmore Part Number: Hammer Guard 5GA</b>	



[www.rockmore-intl.com](http://www.rockmore-intl.com)





For all your rock drilling tool needs contact  
**ROCKMORE INTERNATIONAL**



USA

Phone: 503-682-1001  
Fax: 503-682-1002  
E-mail: [info@rockmore-intl.com](mailto:info@rockmore-intl.com)

10065 SW Commerce Circle  
Wilsonville, OR 97070, USA

AUSTRIA

Phone: 43-3572-86300  
Fax: 43-3572-84179  
E-mail: [austria@rockmore-intl.at](mailto:austria@rockmore-intl.at)

Collini - Strasse 2  
A-8750 Judenburg, Austria



[www.rockmore-intl.com](http://www.rockmore-intl.com)