

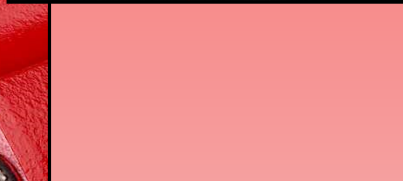


**R O C K M O R E
I N T E R N A T I O N A L**

Rock Drilling Tools

2019

BIT SELECTION HANDBOOK



For all your rock drilling tool needs contact
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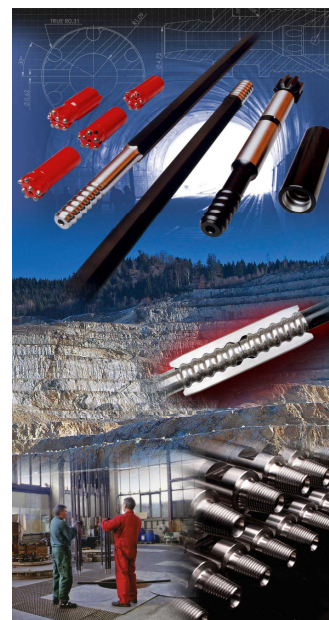


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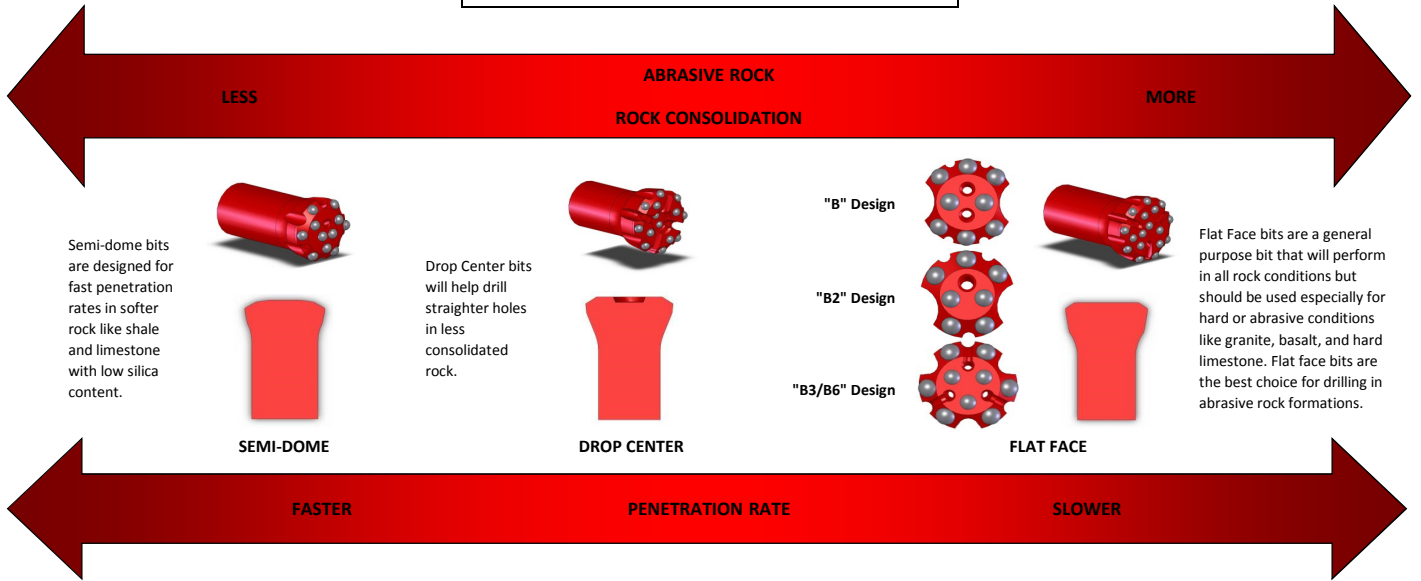
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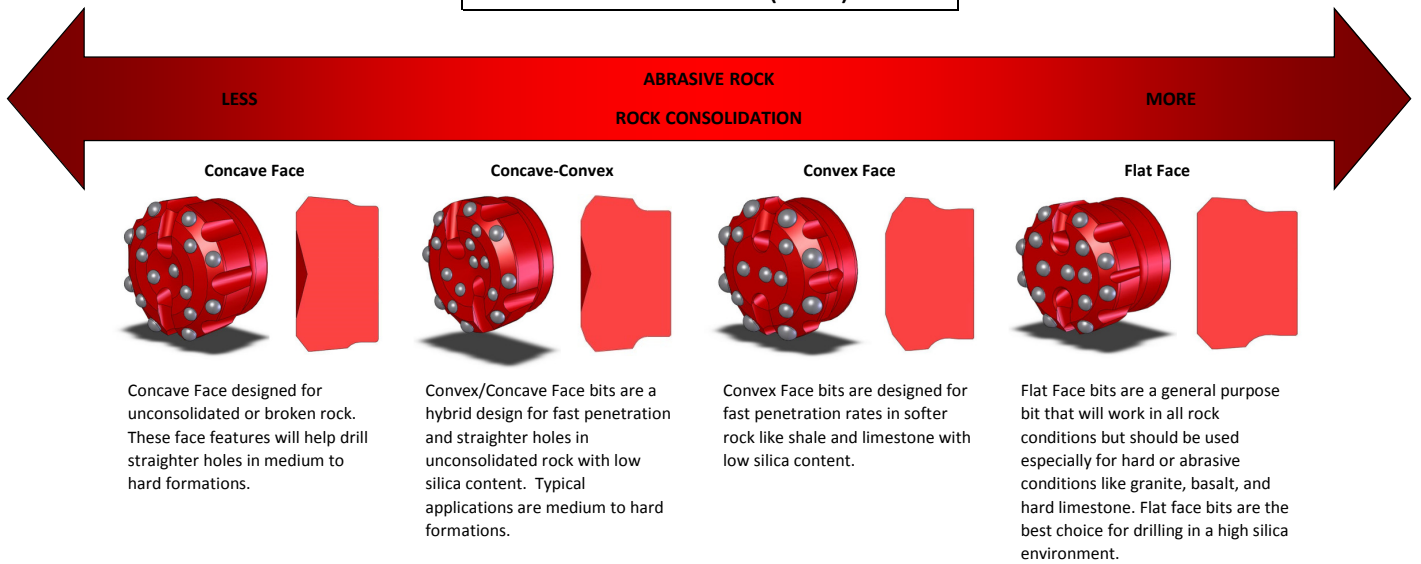


BIT FACE SELECTION

TOP-HAMMER BUTTON BITS



DOWN-THE-HOLE (DTH) BITS



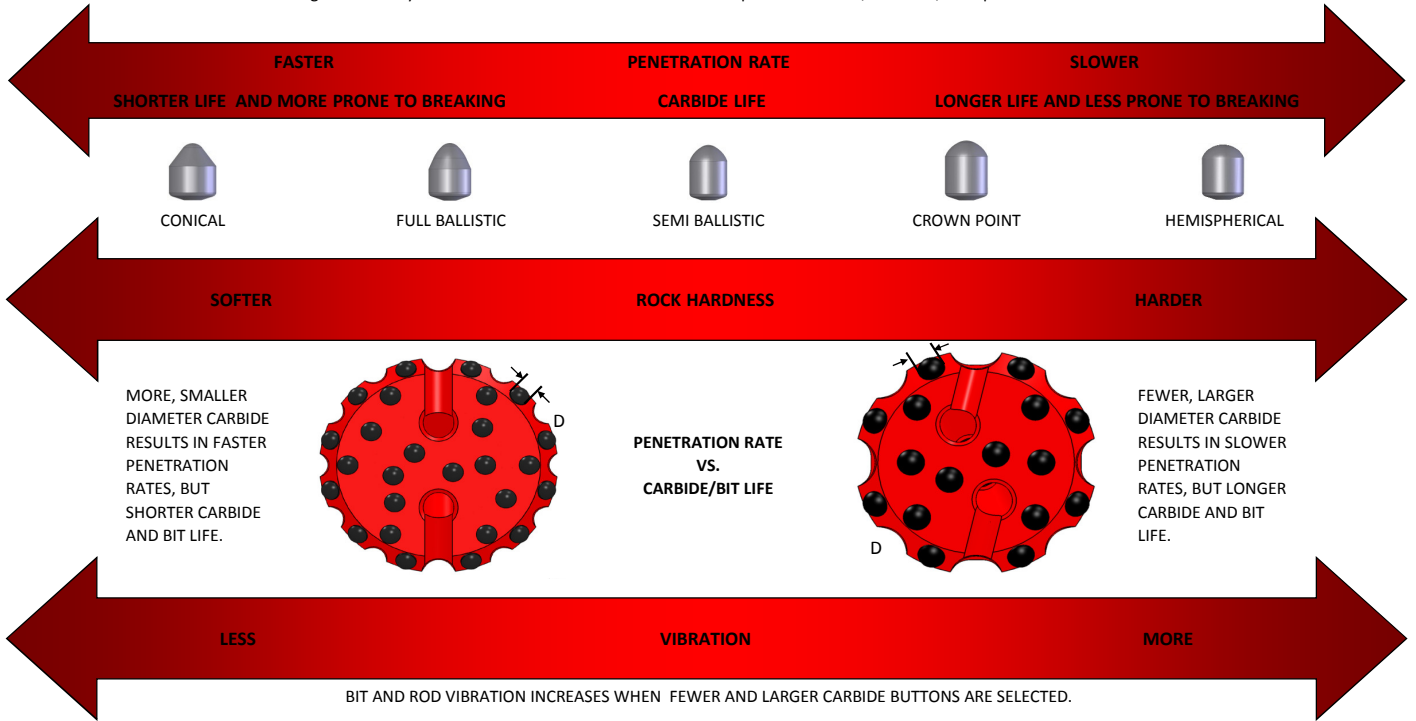
CARBIDE SELECTION

Carbide Designs

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. Below are selections of the different carbide designs offered by Rockmore International.

Carbide Configurations

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 including resistance to wear, penetration rate, vibration, and specific rock conditions.

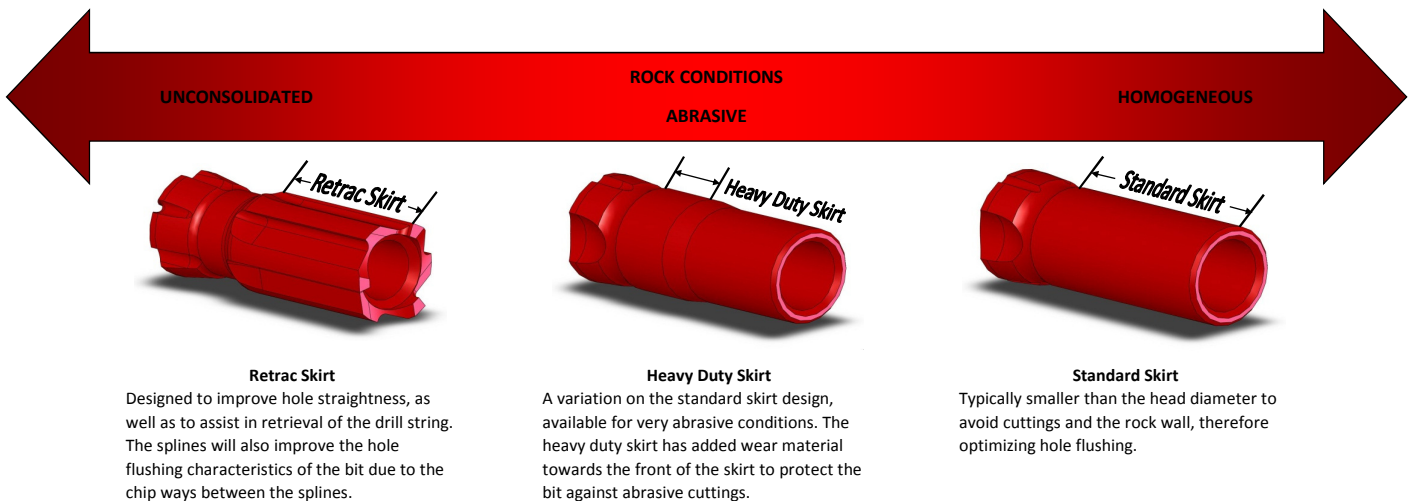


MULTIPOINT

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.



SKIRT SELECTION



Retrac Skirt
Designed to improve hole straightness, as well as to assist in retrieval of the drill string. The splines will also improve the hole flushing characteristics of the bit due to the chip ways between the splines.

Heavy Duty Skirt
A variation on the standard skirt design, available for very abrasive conditions. The heavy duty skirt has added wear material towards the front of the skirt to protect the bit against abrasive cuttings.

Standard Skirt
Typically smaller than the head diameter to avoid cuttings and the rock wall, therefore optimizing hole flushing.



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



ROCK MORE INTERNATIONAL
Rock Drilling Tools



NEW Xtrac BIT DESIGN

Tapered Body Retractable Bit

Designed to improve top-hammer drill and blast operations. The Xtrac retrac bit increases overall drilling productivity by incorporating enhancements in the bit body design and improvements in the configuration of flushing geometry. This promotes straighter holes, faster penetration rates and longer bit life.

Available in standard "T" threads and the new "XT" thread connections of the Vector Rod System



Tapered retrac body designed to improve flushing geometry and increase performance

Features multiple flat spline grooves with extended cutting edges for smoother retraction of the bit

Available in various face designs and button configurations

AVAILABLE WITH THE FOLLOWING CARBIDE PROFILES



CONICAL



SEMI BALLISTIC



CROWN POINT



HEMISPHERICAL

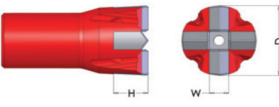
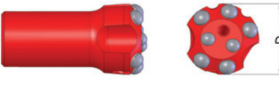


MULTIPOINT

TAPERED BITS



22 mm X 4°46' (7/8" X 4°46')

NO.	CROSS MULTI - USE	CARBIDE DIMENSIONS						DIAMETER		PART NUMBER		
		W			H			D		USA	AUSTRIA	
		mm	In.	mm	In.	mm	In.					
1		8	5/16	14	9/16	32	1-1/4	T22-32M4-1369	49701			
		8	5/16	14	9/16	34	1-11/32	T22-34M4-1352	49703			
		8	5/16	14	9/16	35	1-3/8	T22-35M4-1255	49775			
		8	5/16	14	9/16	36	1-13/32	T22-36M4-1323	49705			
		8	5/16	14	9/16	38	1-1/2	T22-38M4-1437	49707			
		8	5/16	14	9/16	40	1-9/16	T22-40M4-1438	49709			
		8	5/16	14	9/16	41	1-5/8	T22-41M4-1496	49790			
		8	5/16	14	9/16	42	1-21/32	T22-42M4-1038	49711			
		8	5/16	14	9/16	45	1-3/4	T22-45M4-1118	49722			
		8	5/16	14	9/16	46	1-13/16	T22-46M4-1226	49724			
		8	5/16	14	9/16	48	1-7/8	T22-48M4-1497	49791			
		8	5/16	14	9/16	51	2	T22-51M4-1367	49712			
		8	5/16	14	9/16	57	2-1/4	T22-57M4-1764	49713			
		2		CARBIDE DESIGN	GAUGE NO. X DIA.			FRONT NO. X DIA.			D	
	No.			mm	In.	No.	mm	In.	mm	In.	USA	AUSTRIA
HEM	5			7	9/32	2	7	9/32	33	1-5/16	T22-33B24-1297	41025
BAL	5			7	9/32	2	7	9/32	33	1-5/16	T22-33B24B-1293	41035
HEM	5			8	5/16	2	7	9/32	35	1-3/8	T22-35B24-1032	41032
BAL	5			8	5/16	2	7	9/32	35	1-3/8	T22-35B24B-1498	41075
HEM	5			8	5/16	2	7	9/32	36	1-13/32	T22-36B24-1266	41030
HEM	5			9	11/32	2	7	9/32	38	1-1/2	T22-38B24-1031	41029
BAL	5			9	11/32	2	7	9/32	38	1-1/2	T22-38B24B-1499	41076
HEM	5			9	11/32	2	9	11/32	41	1-5/8	T22-41B24-1138	41027
BAL	5			9	11/32	2	9	11/32	41	1-5/8	T22-41B24B-1500	41034
HEM	5			10	13/32	2	9	11/32	45	1-3/4	T22-45B24-1501	41033
BAL	5			10	13/32	2	9	11/32	45	1-3/4	T22-45B24B-1502	41077
HEM	5			11	7/16	2	9	11/32	48	1-7/8	T22-48B24-1741	41003
BAL	5			11	7/16	2	9	11/32	48	1-7/8	T22-48B24B-1760	41005
HEM	5			11	7/16	2	10	13/32	50	1-31/32	T22-50B24-1359	41059
HEM	5			11	7/16	2	10	13/32	51	2	T22-51B24-1761	41031
BAL	5			11	7/16	2	10	13/32	51	2	T22-51B24B-1762	41007

CARBIDE PROFILE DESIGNS

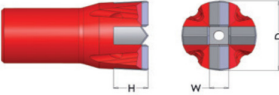



HEM = Hemispherical Carbide; BAL = (Semi) Ballistic Carbide; CP = CrownPoint carbide; CON = Conical carbide; FB = Full Ballistic Carbide; MP = MultiPoint carbide, on request
 Note: Some button bits may not be offered with a particular carbide design shown above.

TAPERED BITS





22 mm X 7° (7/8" X 7°)

NO.	CROSS MULTI - USE  1 FRONT FLUSHING HOLE	CARBIDE DIMENSIONS				DIAMETER		PART NUMBER	
		W		H		D		USA	AUSTRIA
		mm	In.	mm	In.	mm	In.		
1		8	5/16	14	9/16	30	1-3/16	T22-30M7-1696	49758
		8	5/16	14	9/16	32	1-1/4	T22-32M7-1732	49765
		8	5/16	14	9/16	35	1-3/8	T22-35M7-1865	49798
		8	5/16	14	9/16	41	1-5/8	T22-41M7-2414	49746
		8	5/16	14	9/16	45	1-3/4	T22-45M7-1852	49763
		8	5/16	14	9/16	48	1-7/8	T22-48M7-2629	49764

NO.	B2 DESIGN  1 FRONT FLUSHING HOLE	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		BAL	5	7	9/32	2	7	9/32	30	1-3/16	T22-30B27B-1736	41073
		BAL	5	7	9/32	2	7	9/32	33	1-5/16	T22-33B27B-1375	41074
		HEM	5	8	5/16	2	7	9/32	36	1-13/32	T22-36B27-1756	41065
		BAL	5	8	5/16	2	7	9/32	36	1-13/32	T22-36B27B-1855	41010
		BAL	5	9	11/32	2	7	9/32	38	1-1/2	T22-38B27B-1754	41096
		BAL	5	9	11/32	2	9	11/32	41	1-5/8	T22-41B27B-1856	41052
		HEM	5	10	13/32	2	9	11/32	45	1-3/4	T22-45B27-2269	41099
		BAL	5	10	13/32	2	9	11/32	45	1-3/4	T22-45B27B-2372	41053

25 mm X 7° (1" X 7°)

NO.	B2 DESIGN  1 FRONT FLUSHING HOLE	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	5	8	5/16	2	7	9/32	34	1-11/32	T25-34B27-3223	41060
		BAL	5	8	5/16	2	7	9/32	36	1-13/32	T25-36B27B-1868	41013
		HEM	5	9	11/32	2	9	11/32	41	1-5/8	T25-41B27-1867	41012
		BAL	5	9	11/32	2	9	11/32	41	1-5/8	T25-41B27B-1863	41011

NO.	B3 DESIGN  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.		
4		CP	6	8	5/16	3	7	9/32	41	1-5/8	T25-41B37CP-3364	41019
		BAL	6	8	5/16	3	7	9/32	41	1-5/8	T25-41B37B-3363	41018
		BAL	6	9	11/32	3	7	9/32	43	1-11/16	T25-43B37B-3002	41093
		BAL	6	9	11/32	3	8	5/16	45	1-3/4	T25-45B37B-3131	41004

CARBIDE PROFILE DESIGNS

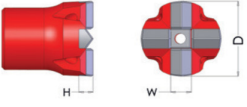


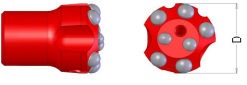
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 Note: Some button bits may not be offered with a particular carbide design shown above.

TAPERED BITS



22 mm X 11° (7/8" X 11°)

NO.	CROSS SINGLE - USE	CARBIDE DIMENSIONS				DIAMETER		PART NUMBER	
		W		H		D		USA	AUSTRIA
		mm	In.	mm	In.	mm	In.		
1	 1 FRONT FLUSHING HOLE	8	5/16	6	1/4	28	1-1/8	T22-28S11-550	49792
		8	5/16	6	1/4	32	1-1/4	T22-32S11-551	49776
		8	5/16	6	1/4	35	1-3/8	T22-35S11-866	49749
		8	5/16	6	1/4	38	1-1/2	T22-38S11-552	49736
		8	5/16	6	1/4	41	1-5/8	T22-41S11-211	49752
		8	5/16	6	1/4	45	1-3/4	T22-45S11-553	49737
		8	5/16	6	1/4	48	1-7/8	T22-48S11-554	49747
		8	5/16	6	1/4	51	2	T22-51S11-555	49750

NO.	B2 DESIGN	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	 1 FRONT FLUSHING HOLE	HEM	5	7	9/32	2	7	9/32	32	1-1/4	T22-32B211-2679	41024
		BAL	5	7	9/32	2	7	9/32	32	1-1/4	T22-32B211B-2359	41023
		HEM	5	7	9/32	2	7	9/32	33	1-5/16	T22-33B211-1505	41079
		BAL	5	7	9/32	2	7	9/32	33	1-5/16	T22-33B211B-1506	41080
		HEM	5	8	5/16	2	7	9/32	35	1-3/8	T22-35B211-1507	41081
		CP	5	8	5/16	2	7	9/32	35	1-3/8	T22-35B211CP-3366	41040
		BAL	5	8	5/16	2	7	9/32	35	1-3/8	T22-35B211B-1254	41041
		HEM	5	9	11/32	2	7	9/32	38	1-1/2	T22-38B211-1508	41082
		BAL	5	9	11/32	2	7	9/32	38	1-1/2	T22-38B211B-1239	41042
		HEM	5	9	11/32	2	9	11/32	41	1-5/8	T22-41B211-1509	41083
		BAL	5	9	11/32	2	9	11/32	41	1-5/8	T22-41B211B-1510	41084
		HEM	5	10	13/32	2	9	11/32	45	1-3/4	T22-45B211-1511	41085
		BAL	5	10	13/32	2	9	11/32	45	1-3/4	T22-45B211B-1512	41086

CARBIDE PROFILE DESIGNS

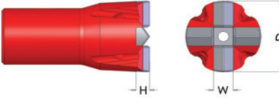
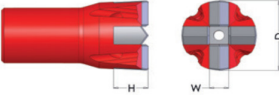


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TAPERED BITS



22 mm X 12° (7/8" X 12°)

NO.	CROSS SINGLE - USE	CARBIDE DIMENSIONS				DIAMETER		PART NUMBER				
		W		H		D		USA	AUSTRIA			
		mm	In.	mm	In.	mm	In.					
1	 1 FRONT FLUSHING HOLE	8	5/16	6	1/4	32	1-1/4	T22-32S12-606	49781			
		8	5/16	6	1/4	35	1-3/8	T22-35S12-607	49782			
		8	5/16	6	1/4	38	1-1/2	T22-38S12-608	49771			
		8	5/16	6	1/4	41	1-5/8	T22-41S12-609	49783			
		8	5/16	6	1/4	45	1-3/4	T22-45S12-610	49784			
		8	5/16	6	1/4	48	1-7/8	T22-48S12-611	49785			
		8	5/16	6	1/4	51	2	T22-51S12-612	49786			
		2	 1 FRONT FLUSHING HOLE	8	5/16	14	9/16	32	1-1/4	T22-32M12-129	49731	
8	5/16			14	9/16	35	1-3/8	T22-35M12-714	49739			
8	5/16			14	9/16	38	1-1/2	T22-38M12-713	49760			
8	5/16			14	9/16	41	1-5/8	T22-41M12-712	49787			
8	5/16			14	9/16	45	1-3/4	T22-45M12-711	49788			
8	5/16			14	9/16	48	1-7/8	T22-48M12-1513	49793			
8	5/16			14	9/16	51	2	T22-51M12-1514	49794			
3	 1 FRONT FLUSHING HOLE			CARBIDE DESIGN	GAUGE NO. X DIA.			FRONT NO. X DIA.			DIAMETER	
		No.	mm		In.	No.	mm	In.	mm	In.	USA	AUSTRIA
		BAL	4	7	9/32	1	7	9/32	31	1-7/32	T22-31B212B-1653	41016
		HEM	5	7	9/32	2	7	9/32	32	1-1/4	T22-32B212B-1848	41048
		BAL	5	7	9/32	2	7	9/32	32	1-1/4	T22-32B212B-1169	41057
		HEM	5	7	9/32	2	7	9/32	33	1-5/16	T22-33B212-2627	41014
		BAL	5	7	9/32	2	7	9/32	33	1-5/16	T22-33B212B-1493	41015
		HEM	5	8	5/16	2	7	9/32	35	1-3/8	T22-35B212-100	41046
		BAL	5	8	5/16	2	7	9/32	35	1-3/8	T22-35B212B-1398	41064
		HEM	5	9	11/32	2	7	9/32	38	1-1/2	T22-38B212-690	41047
		BAL	5	9	11/32	2	7	9/32	38	1-1/2	T22-38B212B-1399	41049
		HEM	5	9	11/32	2	9	11/32	41	1-5/8	T22-41B212-102	41069
		BAL	5	9	11/32	2	9	11/32	41	1-5/8	T22-41B212B-1246	41050
		HEM	5	10	13/32	2	9	11/32	45	1-3/4	T22-45B212-101	41070
		BAL	5	10	13/32	2	9	11/32	45	1-3/4	T22-45B212B-1515	41087

CARBIDE PROFILE DESIGNS

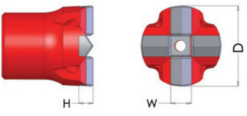
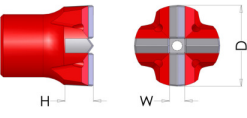


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 Note: Some button bits may not be offered with a particular carbide design shown above.

THREADED BITS



"H" THREAD

NO.	CROSS SINGLE - USE	CARBIDE DIMENSIONS				DIAMETER		PART NUMBER	
		W		H		D		USA	AUSTRIA
		mm	In.	mm	In.	mm	In.		
1	 <p>1 FRONT FLUSHING HOLE</p>	8	5/16	6	1/4	35	1-3/8	H-35S-158	41107
		8	5/16	6	1/4	38	1-1/2	H-38S-159	41108
		8	5/16	6	1/4	41	1-5/8	H-41S-160	41109
		8	5/16	6	1/4	45	1-3/4	H-45S-161	41110
		8	5/16	6	1/4	48	1-7/8	H-48S-162	41111
		8	5/16	6	1/4	51	2	H-51S-163	41112
		8	5/16	6	1/4	57	2-1/4	H-57S-164	41113
		8	5/16	6	1/4	57	2-1/4	H-57S-164	41113
NO.	CROSS MULTI - USE	CARBIDE DIMENSIONS				DIAMETER		PART NUMBER	
		W		H		D		USA	AUSTRIA
		mm	In.	mm	In.	mm	In.		
2	 <p>1 FRONT FLUSHING HOLE</p>	8	5/16	14	9/16	35	1-3/8	H-35M-165	41114
		8	5/16	14	9/16	38	1-1/2	H-38M-166	41115
		8	5/16	14	9/16	41	1-5/8	H-41M-167	41116
		8	5/16	14	9/16	45	1-3/4	H-45M-168	41117
		8	5/16	14	9/16	48	1-7/8	H-48M-169	41118
		8	5/16	14	9/16	51	2	H-51M-170	41119
		8	5/16	14	9/16	57	2-1/4	H-57M-171	41120
		9.5	3/8	14	9/16	64	2-1/2	H-64M-172	41121
		12	15/32	20.6	13/16	70	2-3/4	H-70M-572	41122
		12	15/32	20.6	13/16	76	3	H-76M-573	41123

CARBIDE PROFILE DESIGNS



Hemispherical



Hemispherical
MultiPoint



(Semi) Ballistic



(Semi) Ballistic
MultiPoint



CrownPoint



Conical



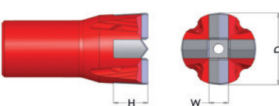
Full Ballistic


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.

THREADED BITS



R22 7/8" ROPE THREAD

NO.	CROSS MULTI - USE  1 FRONT FLUSHING HOLE	CARBIDE DIMENSIONS				DIAMETER		PART NUMBER	
		W		H		D		USA	AUSTRIA
		mm	In.	mm	In.	mm	In.		
1		8	5/16	14	9/16	35	1-3/8	R22-35M-808	49679
		8	5/16	14	9/16	38	1-1/2	R22-38M-807	49651
		8	5/16	14	9/16	41	1-5/8	R22-41M-949	49662

NO.	B2 DESIGN  1 FRONT FLUSHING HOLE	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	5	7	9/32	2	7	9/32	32	1-1/4	R22-32B2-4079	44241
		BAL	5	7	9/32	2	7	9/32	32	1-1/4	R22-32B2B-2979	44705
		HEM	5	8	5/16	2	7	9/32	34	1-11/32	R22-34B2-3129	44237
		BAL	5	8	5/16	2	7	9/32	34	1-11/32	R22-34B2B-3130	44238
		HEM	5	8	5/16	2	7	9/32	35	1-3/8	R22-35B2-923	44503
		HEM	5	9	11/32	2	7	9/32	38	1-1/2	R22-38B2-924	44599
		HEM	5	9	11/32	2	9	11/32	41	1-5/8	R22-41B2-1517	44614
		HEM	5	9.5	3/8	2	8	5/16	43	1-11/16	R22-43B2-4080	41193
		HEM	5	10	13/32	2	9	11/32	45	1-3/4	R22-45B2-1518	44615

CARBIDE PROFILE DESIGNS

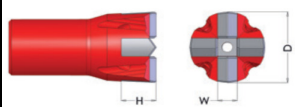


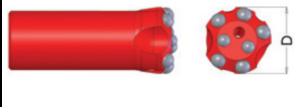
HEM = Hemispherical Carbide; BAL = (Semi) Ballistic Carbide; CP = CrownPoint carbide; CON = Conical carbide; FB = Full Ballistic Carbide; MP = MultiPoint carbide, on request
 Note: Some button bits may not be offered with a particular carbide design shown above.

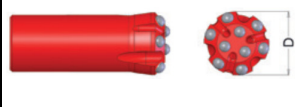
THREADED BITS

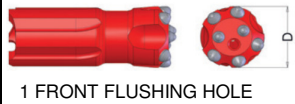


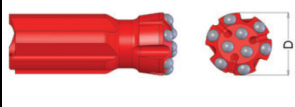
R25 1" ROPE THREAD

NO.	CROSS MULTI - USE	CARBIDE DIMENSIONS				DIAMETER		PART NUMBER	
		W		H		D		USA	AUSTRIA
		mm	In.	mm	In.	mm	In.		
1	 1 FRONT FLUSHING HOLE	8	5/16	14	9/16	35	1-3/8	R25-35M-415	49673
		8	5/16	14	9/16	38	1-1/2	R25-38M-413	49600
		8	5/16	14	9/16	41	1-5/8	R25-41M-663	49601
		8	5/16	14	9/16	43	1-11/16	R25-43M-4081	49602
		8	5/16	14	9/16	45	1-3/4	R25-45M-414	49603
		9.5	3/8	19	3/4	48	1-7/8	R25-48M-771	49640
		9.5	3/8	19	3/4	51	2	R25-51M-854	49660
		9.5	3/8	19	3/4	57	2-1/4	R25-57M-863	49658

NO.	B2 DESIGN	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	 1 FRONT FLUSHING HOLE	HEM	5	7	9/32	2	7	9/32	32	1-1/4	R25-32B2-941	44124
		BAL	5	7	9/32	2	7	9/32	32	1-1/4	R25-32B2B-1383	44125
		HEM	5	7	9/32	2	7	9/32	33	1-5/16	R25-33B2-1434	44847
		BAL	5	7	9/32	2	7	9/32	33	1-5/16	R25-33B2B-1519	44616
		HEM	5	8	5/16	2	7	9/32	35	1-3/8	R25-35B2-1130	44741
		BAL	5	8	5/16	2	7	9/32	35	1-3/8	R25-35B2B-1458	44647
		HEM	5	8	5/16	2	7	9/32	36	1-13/32	R25-36B2-769	44507
		HEM	5	9	11/32	2	7	9/32	38	1-1/2	R25-38B2-1520	44617
		HEM	5	9.5	3/8	2	7	9/32	38	1-1/2	R25-38B2-410	44743
		BAL	5	9	11/32	2	7	9/32	38	1-1/2	R25-38B2B-1521	44754
		HEM	5	9	11/32	2	9	11/32	41	1-5/8	R25-41B2-082	44673
		BAL	5	9	11/32	2	9	11/32	41	1-5/8	R25-41B2B-1483	44677
		HEM	5	9.5	3/8	2	8	5/16	43	1-11/16	R25-43B2-1390	44623
		BAL	5	9.5	3/8	2	8	5/16	43	1-11/16	R25-43B2B-1765	44991
		HEM	5	10	13/32	2	9	11/32	45	1-3/4	R25-45B2-407	44602
		BAL	5	10	13/32	2	9	11/32	45	1-3/4	R25-45B2B-408	44603
		HEM	5	11	7/16	2	9	11/32	48	1-7/8	R25-48B2-083	44326
		BAL	5	11	7/16	2	9	11/32	48	1-7/8	R25-48B2B-406	44327
		HEM	5	11	7/16	2	10	13/32	51	2	R25-51B2-085	44328
		BAL	5	11	7/16	2	10	13/32	51	2	R25-51B2B-2628	44329

NO.	B3 DESIGN	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	 3 FRONT FLUSHING HOLES	HEM	6	9	11/32	3	8	5/16	45	1-3/4	R25-45B3-1522	44618
		BAL	6	9	11/32	3	8	5/16	45	1-3/4	R25-45B3B-1523	44619
		HEM	6	9	11/32	3	9	11/32	48	1-7/8	R25-48B3-1524	44624
		BAL	6	9	11/32	3	9	11/32	48	1-7/8	R25-48B3B-1525	44625
		HEM	6	10	13/32	3	9.5	3/8	51	2	R25-51B3-1526	44767
		BAL	6	10	13/32	3	9.5	3/8	51	2	R25-51B3B-1527	44626
		HEM	6	10	13/32	3	10	13/32	57	2-1/4	R25-57B3-1528	44629
		BAL	6	10	13/32	3	10	13/32	57	2-1/4	R25-57B3B-1529	44632
		BAL	6	10	13/32	3	10	13/32	60	2-3/8	R25-60B3B-3401	44188

NO.	FLAT FACE - RETRAC	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	 1 FRONT FLUSHING HOLE	BAL	5	9	11/32	2	9	11/32	41	1-5/8	R25-41BFRTB-1738	44968
		BAL	5	9.5	3/8	2	8	5/16	43	1-11/16	R25-43BFRTB-3749	44062
		BAL	5	10	13/32	2	9	11/32	45	1-3/4	R25-45BFRTB-3750	44063

NO.	FLAT FACE - RETRAC	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	 3 FRONT FLUSHING HOLES	HEM	6	9	11/32	3	9	11/32	48	1-7/8	R25-48BFRTB-3251	44221
		BAL	6	9	11/32	3	9	11/32	48	1-7/8	R25-48BFRTB-3252	44222
		BAL	6	10	13/32	3	9.5	3/8	51	2	R25-51BFRTB-2816	44254
		HEM	6	10	13/32	3	10	13/32	57	2-1/4	R25-57BFRTB-3584	41189
		BAL	6	10	13/32	3	10	13/32	57	2-1/4	R25-57BFRTB-3580	41187
		BAL	6	10	13/32	3	10	13/32	60	2-3/8	R25-60BFRTB-3402	44189

CARBIDE PROFILE DESIGNS

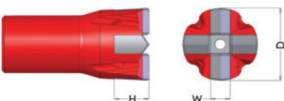


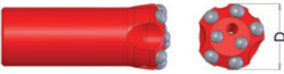
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 Note: Some button bits may not be offered with a particular carbide design shown above.


THREADED BITS

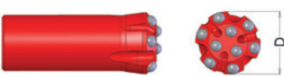


R28 1-1/8" ROPE THREAD

NO.	CROSS MULTI - USE  1 FRONT FLUSHING HOLE	CARBIDE DIMENSIONS						DIAMETER		PART NUMBER	
		W			H			D		USA	AUSTRIA
		mm	In.		mm	In.		mm	In.		
1		8	5/16		14	9/16		35	1-3/8	R28-35M-1530	49696
		8	5/16		14	9/16		38	1-1/2	R28-38M-419	49604
		8	5/16		14	9/16		41	1-5/8	R28-41M-386	49605
		8	5/16		14	9/16		45	1-3/4	R28-45M-387	49607

NO.	B2 DESIGN  1 FRONT FLUSHING HOLE	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	5	8	5/16	2	7	9/32	36	1-13/32	R28-36B2-216	44792
		BAL	5	8	5/16	2	7	9/32	36	1-13/32	R28-36B2B-1766	44990
		HEM	5	8	5/16	2	8	5/16	38	1-1/2	R28-38B2-1291	44664
		BAL	5	8	5/16	2	8	5/16	38	1-1/2	R28-38B2B-2575	44633
		BAL	5	9	11/32	2	7	9/32	38	1-1/2	R28-38B2B-694	44727
		HEM	5	9	11/32	2	9	11/32	41	1-5/8	R28-41B2-788	44628
		BAL	5	9	11/32	2	9	11/32	41	1-5/8	R28-41B2B-1804	44656
		HEM	5	9.5	3/8	2	8	5/16	43	1-11/16	R28-43B2-1481	44994
		BAL	5	9.5	3/8	2	8	5/16	43	1-11/16	R28-43B2B-1767	44661
		HEM	5	10	13/32	2	9	11/32	45	1-3/4	R28-45B2-976	44729
		BAL	5	10	13/32	2	9	11/32	45	1-3/4	R28-45B2B-461	44563
		HEM	5	11	7/16	2	9	11/32	48	1-7/8	R28-48B2-091	44887

NO.	B DESIGN  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	6	8	5/16	2	8	5/16	43	1-11/16	R28-43B-1349	44807
		BAL	6	8	5/16	2	8	5/16	43	1-11/16	R28-43BB-1538	44713
		BAL	6	9	11/32	2	9	11/32	45	1-3/4	R28-45BB-1573	44826

NO.	B3 DESIGN  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.		
4		HEM	6	9	11/32	3	8	5/16	45	1-3/4	R28-45B3-975	44564
		BAL	6	9	11/32	3	8	5/16	45	1-3/4	R28-45B3B-1532	44662
		HEM	6	9	11/32	3	9	11/32	48	1-7/8	R28-48B3-1533	44683
		BAL	6	9	11/32	3	9	11/32	48	1-7/8	R28-48B3B-1534	44698
		HEM	6	10	13/32	3	9.5	3/8	51	2	R28-51B3-1347	44753
		BAL	6	10	13/32	3	9.5	3/8	51	2	R28-51B3B-1535	44699

CARBIDE PROFILE DESIGNS

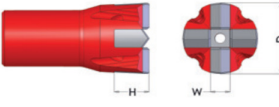



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THREADED BITS




R32 1-1/4" ROPE THREAD

NO.	CROSS MULTI - USE	CARBIDE DIMENSIONS				DIAMETER		PART NUMBER	
		W		H		D		USA	AUSTRIA
		mm	In.	mm	In.	mm	In.		
1	 1 FRONT FLUSHING HOLE	9.5	3/8	19	3/4	41	1-5/8	R32-41M-138	49608
		9.5	3/8	19	3/4	43	1-11/16	R32-43M-416	49614
		9.5	3/8	19	3/4	45	1-3/4	R32-45M-139	49615
		9.5	3/8	19	3/4	48	1-7/8	R32-48M-140	49616
		9.5	3/8	19	3/4	51	2	R32-51M-141	49617
		9.5	3/8	19	3/4	57	2-1/4	R32-57M-142	49618
		12.7	1/2	25	1	76	3	R32-76MHD-147	49670

NO.	X MULTI - USE	CARBIDE DIMENSIONS				DIAMETER		PART NUMBER	
		W		H		D		USA	AUSTRIA
		mm	In.	mm	In.	mm	In.		
2	 1 FRONT FLUSHING HOLE	12	15/32	20.6	13/16	64	2-1/2	R32-64X-269	49619
		12.7	1/2	25	1	70	2-3/4	R32-70XHD-146	49645
		12.7	1/2	25	1	76	3	R32-76XHD-148	49678
		12.7	1/2	25	1	89	3-1/2	R32-89XHD-400	49647
		16	5/8	25	1	102	4	R32-102XHD-401	49692

NO.	B2 DESIGN	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	 1 FRONT FLUSHING HOLE * = 2 SIDE FLUSH HOLES	HEM	5	9	11/32	2	9	11/32	41	1-5/8	R32-41B2-001	44649
		BAL	5	9	11/32	2	9	11/32	41	1-5/8	R32-41B2B-364	44650
		HEM	5	9.5	3/8	2	8	5/16	43	1-11/16	R32-43B2-193	44636
		CP	5	9.5	3/8	2	8	5/16	43	1-11/16	R32-43B2CP-2863	44267
		BAL	5	9.5	3/8	2	8	5/16	43	1-11/16	R32-43B2B-1253	44648
		HEM	5	10	13/32	2	9	11/32	45	1-3/4	R32-45B2-002	44652
		BAL	5	10	13/32	2	9	11/32	45	1-3/4	R32-45B2B-671	44651
		HEM	5	11	7/16	2	9	11/32	48	1-7/8	R32-48B2-1110	44530
		HEM	5	11	7/16	2	9	11/32	48	1-7/8	R32-48B2-1394 *	44529
		BAL	5	11	7/16	2	9	11/32	48	1-7/8	R32-48B2B-362 *	44659
		HEM	5	12.7	1/2	2	9.5	3/8	51	2	R32-51B2-358	44757
		BAL	5	11	7/16	2	10	13/32	51	2	R32-51B2B-366	44567

NO.	B DESIGN	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	 2 FRONT FLUSHING HOLES * = 1 SIDE FLUSH HOLE	HEM	6	8	5/16	2	8	5/16	41	1-5/8	R32-41B-452	44803
		HEM	6	8	5/16	2	8	5/16	41	1-5/8	R32-41B-2529 *	44346
		BAL	6	8	5/16	2	8	5/16	41	1-5/8	R32-41BB-2530 *	44347
		HEM	6	8	5/16	2	8	5/16	43	1-11/16	R32-43B-1541	44716
		BAL	6	8	5/16	2	8	5/16	43	1-11/16	R32-43BB-1542	44717
		HEM	6	9	11/32	2	9	11/32	45	1-3/4	R32-45B-697	44740
		BAL	6	9	11/32	2	9	11/32	45	1-3/4	R32-45BB-176	44755
		HEM	6	9.5	3/8	2	9.5	3/8	48	1-7/8	R32-48B-1543	44718
		BAL	6	9.5	3/8	2	9.5	3/8	48	1-7/8	R32-48BB-973	44798
		HEM	6	11	7/16	2	9	11/32	51	2	R32-51B-1252	44453
		BAL	6	11	7/16	2	9	11/32	51	2	R32-51BB-179 *	44827
		FB	6	11	7/16	2	9	11/32	51	2	R32-51BB-2887	44263

CARBIDE PROFILE DESIGNS

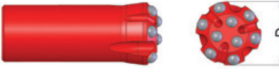
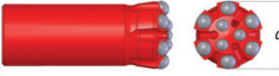

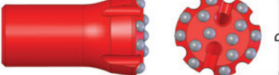



HEM = Hemispherical Carbide; BAL = (Semi) Ballistic Carbide; CP = CrownPoint carbide; CON = Conical carbide; FB = Full Ballistic Carbide; MP = MultiPoint carbide, on request
 Note: Some button bits may not be offered with a particular carbide design shown above.

THREADED BITS



R32 1-1/4" ROPE THREAD (CONTINUED)

NO.	B3 DESIGN	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	 3 FRONT FLUSHING HOLES	HEM	6	9	11/32	3	7	9/32	43	1-11/16	R32-43B3-1850	44324
		BAL	6	9	11/32	3	7	9/32	43	1-11/16	R32-43B3B-1224	44325
		HEM	6	9	11/32	3	8	5/16	45	1-3/4	R32-45B3-1295	44675
		HEM	6	10	13/32	3	8	5/16	45	1-3/4	R32-45B3-755	44726
		CP	6	10	13/32	3	8	5/16	45	1-3/4	R32-45B3CP-2613	44273
		BAL	6	9	11/32	3	8	5/16	45	1-3/4	R32-45B3B-384	44704
		BAL	6	10	13/32	3	8	5/16	45	1-3/4	R32-45B3B-1945	44728
		HEM	6	9	11/32	3	9	11/32	48	1-7/8	R32-48B3-1485	44690
		HEM	6	10	13/32	3	8	5/16	48	1-7/8	R32-48B3-760	44694
		CP	6	10	13/32	3	8	5/16	48	1-7/8	R32-48B3CP-2765	44265
		BAL	6	9	11/32	3	9	11/32	48	1-7/8	R32-48B3B-699	44787
		BAL	6	10	13/32	3	8	5/16	48	1-7/8	R32-48B3B-2398	44322
		HEM	6	10	13/32	3	9.5	3/8	51	2	R32-51B3-361	44756
		HEM	6	11	7/16	3	9	11/32	51	2	R32-51B3-3535	44712
		CP	6	10	13/32	3	9.5	3/8	51	2	R32-51B3CP-2617	44323
		BAL	6	10	13/32	3	9.5	3/8	51	2	R32-51B3B-383	44802
		BAL	6	10	13/32	3	9.5	3/8	54	2-1/8	R32-54B3B-3360	44197
		HEM	6	10	13/32	3	10	13/32	57	2-1/4	R32-57B3-1283	44730
		BAL	6	10	13/32	3	10	13/32	57	2-1/4	R32-57B3B-1539	44791
		HEM	6	11	7/16	3	11	7/16	64	2-1/2	R32-64B3-1471	44544
BAL	6	11	7/16	3	11	7/16	64	2-1/2	R32-64B3B-1540	44570		
6	 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.		
		HEM	6	9	11/32	3	7	9/32	43	1-11/16	R32-43B6-3460	44175
		CP	6	9	11/32	3	7	9/32	43	1-11/16	R32-43B6CP-3257	44218
		HEM	6	10	13/32	3	8	5/16	45	1-3/4	R32-45B6-3039	44247
		CP	6	10	13/32	3	8	5/16	45	1-3/4	R32-45B6CP-3040	44249
		BAL	6	10	13/32	3	8	5/16	45	1-3/4	R32-45B6B-3041	44248
		HEM	6	10	13/32	3	8	5/16	48	1-7/8	R32-48B6-3066	44230
		CP	6	10	13/32	3	8	5/16	48	1-7/8	R32-48B6CP-3112	44219
BAL	6	10	13/32	3	8	5/16	48	1-7/8	R32-48B6B-3197	44231		
7	 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.		
HEM	8	10	13/32	4	10	13/32	64	2-1/2	R32-64BF-011	44571		
BAL	8	10	13/32	4	10	13/32	64	2-1/2	R32-64BFB-1392	44572		
8	 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.		
HEM	8	11	7/16	6	11	7/16	76	3	R32-76BF-017	44731		
BAL	8	11	7/16	6	11	7/16	76	3	R32-76BFB-1544	44725		
9	 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.		
		HEM	6	10	13/32	3	10	13/32	64	2-1/2	R32-64BDC-1456	44573
		BAL	6	10	13/32	1	9	11/32	64	2-1/2	R32-64BDCB-1457	44574
		HEM	6	12.7	1/2	3	10	13/32	64	2-1/2	R32-64BDCB-1457	44574
		BAL	6	12.7	1/2	1	9	11/32	64	2-1/2	R32-64BDCB-1457	44574
		HEM	6	12.7	1/2	3	11	7/16	76	3	R32-76BDC-777	44577
BAL	6	12.7	1/2	1	9.5	3/8	76	3	R32-76BDCB-775	44578		
HEM	6	14	9/16	3	12.7	1/2	89	3-1/2	R32-89BDC-1250	44579		
BAL	6	14	9/16	2	9.5	3/8	89	3-1/2	R32-89BDC-1250	44579		
BAL	6	14	9/16	3	12.7	1/2	89	3-1/2	R32-89BDCB-1362	44580		
BAL	6	14	9/16	2	9.5	3/8	89	3-1/2	R32-89BDCB-1362	44580		

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.

THREADED BITS



R32 1-1/4" ROPE THREAD (CONTINUED)												
NO.	FLAT FACE - RETRAC	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	6	9	11/32	3	9	11/32	48	1-7/8	R32-48BFRT-1763	44540
		BAL	6	9	11/32	3	9	11/32	48	1-7/8	R32-48BFRTB-1742	44542
		HEM	6	10	13/32	3	9.5	3/8	51	2	R32-51BFRT-1331	41174
		BAL	6	10	13/32	3	9.5	3/8	51	2	R32-51BFRTB-1486	44758
		BAL	6	10	13/32	3	9.5	3/8	54	2-1/8	R32-54BFRTB-3276	44216
		HEM	6	10	13/32	3	10	13/32	57	2-1/4	R32-57BFRT-1337	41173
		BAL	6	10	13/32	3	10	13/32	57	2-1/4	R32-57BFRTB-1546	44806
11		HEM	8	10	13/32	4	10	13/32	64	2-1/2	R32-64BFRT-2634	44666
		BAL	8	10	13/32	4	10	13/32	64	2-1/2	R32-64BFRTB-2331	44780
12		HEM	8	11	7/16	6	11	7/16	76	3	R32-76BFRT-2635	44732
		BAL	8	11	7/16	6	11	7/16	76	3	R32-76BFRTB-2339	44873
13		HEM	6	10	13/32	3	10	13/32	64	2-1/2	R32-64BRTDC-2636	44874
						1	9	11/32				
		BAL	6	10	13/32	3	10	13/32	64	2-1/2	R32-64BRTDCB-2637	44875
						1	9	11/32				
		HEM	6	12.7	1/2	3	11	7/16	76	3	R32-76BRTDC-4082	44799
						1	9.5	3/8				
14		HEM	8	11	7/16	4	11	7/16	89	3-1/2	R32-89BRTDC-3895	41192
						2	9.5	3/8				
		CON	8	11	7/16	4	11	7/16	89	3-1/2	R32-89BRTDCC-3000	41185
						2	9.5	3/8				

XR32 1-1/4" ROPE THREAD (ROCKMORE XR32 THREAD SYSTEM)												
NO.	B3 DESIGN	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	3	8	5/16	45	1-3/4	XR32-45B3-2518	44269
		BAL	6	10	13/32	3	8	5/16	45	1-3/4	XR32-45B3B-2448	44270
2		HEM	6	10	13/32	3	8	5/16	45	1-3/4	XR32-45B6-3062	44244
		BAL	6	10	13/32	3	8	5/16	45	1-3/4	XR32-45B6B-3198	44245
		HEM	6	10	13/32	3	8	5/16	48	1-7/8	XR32-48B6-3411	44184
		BAL	6	10	13/32	3	8	5/16	48	1-7/8	XR32-48B6B-3410	44185

CARBIDE PROFILE DESIGNS

Hemispherical

MultiPoint
Hemispherical MultiPoint

(Semi) Ballistic

(Semi) Ballistic MultiPoint

CrownPoint

Conical

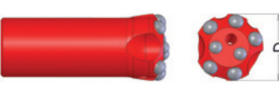
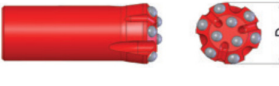
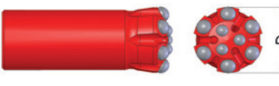
Full Ballistic

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THREADED BITS



R35 1-3/8" ROPE THREAD

NO.	DESIGN	CARBIDE DIMENSIONS						DIAMETER		PART NUMBER		
		DESIGN	GAUGE NO. X DIA.			FRONT NO. X DIA.			D		USA	AUSTRIA
			No.	mm	In.	No.	mm	In.	mm	In.		
1	 B2 DESIGN 1 FRONT FLUSHING HOLE	HEM	5	11	7/16	2	9	11/32	48	1-7/8	R35-48B2-3485	44454
		BAL	5	11	7/16	2	9	11/32	48	1-7/8	R35-48B2B-3701	44123
		HEM	5	12.7	1/2	2	9.5	3/8	51	2	R35-51B2-1934	44455
		BAL	5	12.7	1/2	2	9.5	3/8	51	2	R35-51B2B-1894	44268
2	 B3 DESIGN 3 FRONT FLUSHING HOLES	BAL	6	10	13/32	3	8	5/16	45	1-3/4	R35-45B3B-3527	44151
		HEM	6	9	11/32	3	9	11/32	48	1-7/8	R35-48B3-1574	44833
		BAL	6	9	11/32	3	9	11/32	48	1-7/8	R35-48B3B-1662	44911
		BAL	6	10	13/32	3	8	5/16	48	1-7/8	R35-48B3B-2129	44381
		HEM	6	10	13/32	3	9.5	3/8	51	2	R35-51B3-1576	44834
		BAL	6	10	13/32	3	9.5	3/8	51	2	R35-51B3B-1671	44913
		BAL	6	10	13/32	3	10	13/32	57	2-1/4	R35-57B3B-4083	44479
3	 B6 DESIGN 3 FRONT FLUSHING HOLES	BAL	6	10	13/32	3	8	5/16	45	1-3/4	R35-45B6B-3505	44159
		HEM	6	10	13/32	3	8	5/16	48	1-7/8	R35-48B6-3483	44171
		CP	6	10	13/32	3	8	5/16	48	1-7/8	R35-48B6CP-3121	44240

CARBIDE PROFILE DESIGNS

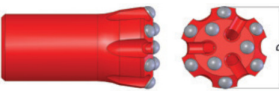
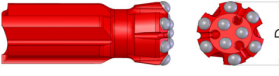
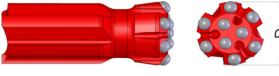


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THREADED BITS



T35 1-3/8"

NO.	B3	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	 3 FRONT FLUSHING HOLES	HEM	6	10	13/32	3	9.5	3/8	54	2-1/8	T35-54B3-3560	41140		
		BAL	6	10	13/32	3	9.5	3/8	54	2-1/8	T35-54B3B-4084	41141		
		HEM	6	10	13/32	3	10	13/32	57	2-1/4	T35-57B3-3558	41144		
		BAL	6	11	7/16	3	10	13/32	57	2-1/4	T35-57B3B-4085	41145		
2	 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.				
		2	FLAT FACE - RETRAC  3 FRONT FLUSHING HOLES	HEM	6	10	13/32	3	9.5	3/8	54	2-1/8	T35-54BFRT-3561	41142
				BAL	6	10	13/32	3	9.5	3/8	54	2-1/8	T35-54BFRTB-4041	41143
HEM	6			10	13/32	3	10	13/32	57	2-1/4	T35-57BFRT-3559	41146		
BAL	6			11	7/16	3	10	13/32	57	2-1/4	T35-57BFRTB-4042	41147		

CARBIDE PROFILE DESIGNS




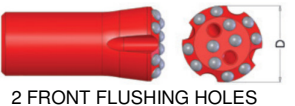
HEM = Hemispherical Carbide; BAL = (Semi) Ballistic Carbide; CP = CrownPoint carbide; CON = Conical carbide; FB = Full Ballistic Carbide; MP = MultiPoint carbide, on request
 Note: Some button bits may not be offered with a particular carbide design shown above.

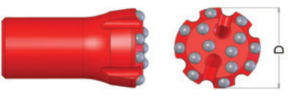
THREADED BITS

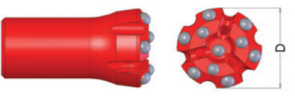


R38 1-1/2" ROPE THREAD

NO.	X MULTI - USE  1 FRONT FLUSHING HOLE	CARBIDE DIMENSIONS						DIAMETER		PART NUMBER	
		W			H			D		USA	AUSTRIA
		mm	In.	mm	In.	mm	In.	mm	In.		
1		12	15/32	20.6	13/16	64	2-1/2			R38-64X-352	49653
		12.7	1/2	25	1	70	2-3/4			R38-70XHD-422	49621
		12.7	1/2	25	1	76	3			R38-76XHD-427	49622
		12.7	1/2	25	1	89	3-1/2			R38-89XHD-425	49623
		16	5/8	25	1	102	4			R38-102XHD-426	49663

NO.	FLAT FACE  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	10	13/32	4	10	13/32	64	2-1/2	R38-64BF-747	44687
		BAL	8	10	13/32	4	10	13/32	64	2-1/2	R38-64BFB-1552	44876

NO.	FLAT FACE  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	11	7/16	6	11	7/16	76	3	R38-76BF-1436	44682
		BAL	8	11	7/16	6	11	7/16	76	3	R38-76BFB-1553	44877
		HEM	8	12.7	1/2	6	12.7	1/2	89	3-1/2	R38-89BF-1554	44508
		BAL	8	12.7	1/2	6	12.7	1/2	89	3-1/2	R38-89BFB-1555	44878
		HEM	8	14	9/16	6	14	9/16	102	4	R38-102BF-1385	44630
		BAL	8	14	9/16	6	14	9/16	102	4	R38-102BFB-1556	44879

NO.	DROP CENTER  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.		
4		HEM	6	10	13/32	3	10	13/32	64	2-1/2	R38-64BDC-1557	44880
		BAL	6	10	13/32	1	9	11/32	64	2-1/2	R38-64BDCB-1558	44881
		HEM	6	11	7/16	3	11	7/16	70	2-3/4	R38-70BDC-181	44575
		BAL	6	11	7/16	1	9.5	3/8	70	2-3/4	R38-70BDCB-933	44576
		HEM	6	12.7	1/2	3	11	7/16	76	3	R38-76BDC-429	44559
		BAL	6	12.7	1/2	1	9.5	3/8	76	3	R38-76BDCB-776	44560
		HEM	6	14	9/16	3	12.7	1/2	89	3-1/2	R38-89BDC-905	44561
		BAL	6	14	9/16	2	9.5	3/8	89	3-1/2	R38-89BDCB-872	44562
		BAL	6	14	9/16	3	12.7	1/2	89	3-1/2	R38-89BDCB-872	44562
		BAL	6	14	9/16	2	9.5	3/8	89	3-1/2	R38-89BDCB-872	44562

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.

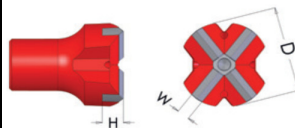
THREADED BITS

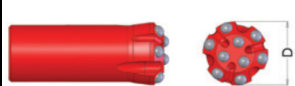



T38 1-1/2"

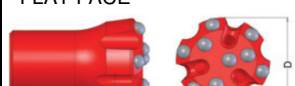
These bits are available optionally in XT38 thread for use in Rockmore's Vector Rod System.





NO.	X MULTI - USE  1 FRONT FLUSHING HOLE	CARBIDE DIMENSIONS						DIAMETER		PART NUMBER	
		W			H			D		USA	AUSTRIA
		mm	In.	mm	In.	mm	In.	mm	In.		
1		12	15/32	20.6	13/16	64	2-1/2			T38-64X-215	49644
		12.7	1/2	25	1	70	2-3/4			T38-70XHD-152	49627
		12.7	1/2	25	1	76	3			T38-76XHD-154	49628
		12.7	1/2	25	1	89	3-1/2			T38-89XHD-155	49629
		16	5/8	25	1	102	4			T38-102XHD-837	49689


NO.	B3 DESIGN  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.		
2		HEM	6	10	13/32	3	10	13/32	57	2-1/4	T38-57B3-1563	44884
		BAL	6	10	13/32	3	10	13/32	57	2-1/4	T38-57B3B-1564	44885
		HEM	6	11	7/16	3	11	7/16	64	2-1/2	T38-64B3-1470	44805
		HEM	6	12.7	1/2	3	11	7/16	64	2-1/2	T38-64B3-2383	44321
		BAL	6	11	7/16	3	11	7/16	64	2-1/2	T38-64B3B-1565	44886

NO.	FLAT FACE  1 FRONT FLUSHING HOLE	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	6	11	7/16	3	9.5	3/8	57	2-1/4	T38-57BF-316	44842
		HEM	6	12.7	1/2	3	11	7/16	64	2-1/2	T38-64BF-692	44736
		CP	6	12.7	1/2	3	11	7/16	64	2-1/2	T38-64BF-2542	41134
		BAL	6	12.7	1/2	3	12.7	1/2	64	2-1/2	T38-64BFB-1413	44835

NO.	FLAT FACE  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.		
4		HEM	6	12.7	1/2	3	12.7	1/2	76	3	T38-76BF-2396	44380
		BAL	6	12.7	1/2	3	12.7	1/2	76	3	T38-76BFB-2631	44382
		HEM	6	14	9/16	4	14	9/16	89	3-1/2	T38-89BF-2633	44314
		BAL	6	14	9/16	4	14	9/16	89	3-1/2	T38-89BFB-2671	44315

NO.	FLAT FACE  1 FRONT FLUSHING HOLE	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	6	12.7	1/2	5	11	7/16	70	2-3/4	T38-70BF-1223	44548
		HEM	6	12.7	1/2	5	11	7/16	76	3	T38-76BF-1290	44506
		BAL	6	12.7	1/2	5	11	7/16	76	3	T38-76BFB-1326	44658
		CON	6	12.7	1/2	5	11	7/16	76	3	T38-76BFC-2169	44256

NO.	FLAT FACE  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	10	13/32	4	10	13/32	64	2-1/2	T38-64BF-020	44711
		BAL	8	10	13/32	4	10	13/32	64	2-1/2	T38-64BFB-280	44710
		HEM	8	10	13/32	4	10	13/32	70	2-3/4	T38-70BF-1187	44549

NO.	FLAT FACE  4 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.		
7		HEM	8	12.7	1/2	5	10	13/32	76	3	T38-76BF-3302	44131

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.

THREADED BITS



T38 1-1/2" (CONTINUED)

These bits are available optionally in XT38 thread for use in Rockmore's Vector Rod System.



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.			
8		HEM	8	11	7/16	6	11	7/16	76	3	T38-76BF-027	44681	
		BAL	8	11	7/16	6	11	7/16	76	3	T38-76BFB-846	44680	
		HEM	8	12.7	1/2	6	12.7	1/2	89	3-1/2	T38-89BF-1292	44510	
		HEM	8	14	9/16	6	12.7	1/2	89	3-1/2	T38-89BF-2505	44134	
		BAL	8	12.7	1/2	6	12.7	1/2	89	3-1/2	T38-89BFB-1445	44695	
		HEM	8	14	9/16	6	14	9/16	102	4	T38-102BF-1361	44631	
		BAL	8	14	9/16	6	14	9/16	102	4	T38-102BFB-1446	44620	
		HEM	8	16	5/8	6	14	9/16	115	4-1/2	T38-115BF-1448	44790	
9		HEM	9	11	7/16	8	10	13/32	89	3-1/2	T38-89BF-1484	44860	
		BAL	9	11	7/16	8	10	13/32	89	3-1/2	T38-89BFB-1566	44888	
		HEM	9	12.7	1/2	8	12.7	1/2	102	4	T38-102BF-1567	44889	
		BAL	9	12.7	1/2	8	12.7	1/2	102	4	T38-102BFB-1568	44890	
		HEM	9	14	9/16	9	12.7	1/2	115	4-1/2	T38-115BF-1569	44891	
10		HEM	6	10	13/32	3	10	13/32	64	2-1/2	T38-64BDC-1454	44518	
		BAL	6	10	13/32	3	10	13/32	64	2-1/2	T38-64BDCB-1455	44519	
		HEM	6	11	7/16	3	11	7/16	70	2-3/4	T38-70BDC-025	44520	
		BAL	6	11	7/16	3	11	7/16	70	2-3/4	T38-70BDCB-656	44521	
		HEM	6	12.7	1/2	3	11	7/16	76	3	T38-76BDC-028	44714	
		CP	6	12.7	1/2	3	11	7/16	76	3	T38-76BDCCP-2420	44722	
		BAL	6	12.7	1/2	3	11	7/16	76	3	T38-76BDCB-1462	44859	
		HEM	6	14	9/16	3	12.7	1/2	89	3-1/2	T38-89BDC-799	44522	
		BAL	6	14	9/16	3	12.7	1/2	89	3-1/2	T38-89BDCB-1464	44523	
		11		HEM	8	11	7/16	4	10	13/32	76	3	T38-76BDC-1149
BAL	8			11	7/16	4	10	13/32	76	3	T38-76BDCB-1319	44605	
HEM	8			11	7/16	4	11	7/16	89	3-1/2	T38-89BDC-1143	44606	
BAL	8			11	7/16	4	11	7/16	89	3-1/2	T38-89BDCB-1321	44607	
HEM	8			14	9/16	4	12.7	1/2	102	4	T38-102BDC-1365	44608	
BAL	8			14	9/16	4	12.7	1/2	102	4	T38-102BDCB-1450	44609	

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.

THREADED BITS



T38 1-1/2" (CONTINUED)

These bits are available optionally in XT38 thread for use in Rockmore's Vector Rod System.



NO.	FLAT FACE - RETRAC	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	6	11	7/16	3	9.5	3/8	57	2-1/4	T38-57BFRT-2401	44035
		HEM	6	12.7	1/2	3	11	7/16	64	2-1/2	T38-64BFRT-2145	41175
	1 FRONT FLUSHING HOLE											
13		HEM	6	12.7	1/2	3	11	7/16	64	2-1/2	T38-64BFRT-3119	44153
		HEM	6	12.7	1/2	3	12.7	1/2	76	3	T38-76BFRT-2672	44316
		BAL	6	12.7	1/2	3	12.7	1/2	76	3	T38-76BFRTB-2673	44317
		HEM	6	14	9/16	4	14	9/16	89	3-1/2	T38-89BFRT-2674	44318
		BAL	6	14	9/16	4	14	9/16	89	3-1/2	T38-89BFRTB-2675	44319
	3 FRONT FLUSHING HOLES											
14		HEM	8	10	13/32	4	10	13/32	64	2-1/2	T38-64BFRT-2126	44686
		BAL	8	10	13/32	4	10	13/32	64	2-1/2	T38-64BFRTB-2108	44669
	2 FRONT FLUSHING HOLES											
15		HEM	8	12.7	1/2	5	10	13/32	76	3	T38-76BFRT-3274	44132
	4 FRONT FLUSHING HOLES											
16		HEM	8	11	7/16	6	11	7/16	76	3	T38-76BFRT-2187	44685
		BAL	8	11	7/16	6	11	7/16	76	3	T38-76BFRTB-1925	44655
		HEM	8	12.7	1/2	6	12.7	1/2	89	3-1/2	T38-89BFRT-2114	41129
		HEM	8	14	9/16	6	12.7	1/2	89	3-1/2	T38-89BFRT-3611	44135
		BAL	8	12.7	1/2	6	12.7	1/2	89	3-1/2	T38-89BFRTB-2121	44892
		HEM	8	14	9/16	6	14	9/16	102	4	T38-102BFRT-2244	44893
		BAL	8	14	9/16	6	14	9/16	102	4	T38-102BFRTB-2638	44894
	2 FRONT FLUSHING HOLES											
17		HEM	6	10	13/32	3	10	13/32	64	2-1/2	T38-64BRTDC-2107	44850
						1	9	11/32				
		BAL	6	10	13/32	3	10	13/32	64	2-1/2	T38-64BRTDCB-194	44846
						1	9	11/32				
		HEM	6	11	7/16	3	11	7/16	70	2-3/4	T38-70BRTDC-2639	44895
						1	9.5	3/8				
		BAL	6	11	7/16	3	11	7/16	70	2-3/4	T38-70BRTDCB-2640	44896
						1	9.5	3/8				
		HEM	6	12.7	1/2	3	11	7/16	76	3	T38-76BRTDC-2641	44600
						1	9.5	3/8				
		BAL	6	12.7	1/2	3	11	7/16	76	3	T38-76BRTDCB-2475	44601
						1	9.5	3/8				
HEM	6	14	9/16	3	12.7	1/2	89	3-1/2	T38-89BRTDC-2630	44971		
				2	9.5	3/8						
BAL	6	14	9/16	3	12.7	1/2	89	3-1/2	T38-89BRTDCB-2476	44972		
				2	9.5	3/8						
	3 FRONT FLUSHING HOLES											

CARBIDE PROFILE DESIGNS



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 Note: Some button bits may not be offered with a particular carbide design shown above.

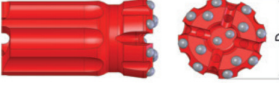
THREADED BITS



T38 1-1/2" (CONTINUED)

These bits are available optionally in XT38 thread for use in Rockmore's Vector Rod System.



NO.	DROP CENTER - RETRAC	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.		
18	 4 FRONT FLUSHING HOLES	HEM	8	11	7/16	4	10	13/32	76	3	T38-76BRTDC-2142	44751
		BAL	8	11	7/16	1	10	13/32	76	3	T38-76BRTDCB-865	44828
		HEM	8	11	7/16	4	11	7/16	89	3-1/2	T38-89BRTDC-2642	44897
		BAL	8	11	7/16	2	9.5	3/8	89	3-1/2	T38-89BRTDCB-2643	44898
		HEM	8	14	9/16	4	12.7	1/2	102	4	T38-102BRTDC-2532	44899
		BAL	8	14	9/16	3	11	7/16	102	4	T38-102BRTDCB-2644	44900
		BAL	8	14	9/16	4	12.7	1/2	102	4	T38-102BRTDCB-2644	44900
		BAL	8	14	9/16	3	11	7/16	102	4	T38-102BRTDCB-2644	44900

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.

THREADED BITS



T45 1-3/4"

These bits are available optionally in XT45 thread for use in Rockmore's Vector Rod System.



NO.	X MULTI - USE	CARBIDE DIMENSIONS				DIAMETER		PART NUMBER				
		W		H		D		USA	AUSTRIA			
		mm	In.	mm	In.	mm	In.					
1		12.7	1/2	25	1	76	3	T45-76XHD-312	49634			
		12.7	1/2	25	1	89	3-1/2	T45-89XHD-353	49635			
		16	5/8	25	1	102	4	T45-102XHD-305	49642			
NO.	FLAT FACE	CARBIDE DIMENSIONS				DIAMETER		PART NUMBER				
		GAUGE NO. X DIA.		FRONT NO. X DIA.		D		USA	AUSTRIA			
		DESIGN	No.	mm	In.	No.	mm	In.	mm	In.		
2		HEM	6	12.7	1/2	3	12.7	1/2	76	3	T45-76BF-2395	44341
		BAL	6	12.7	1/2	3	12.7	1/2	76	3	T45-76BFB-2632	44320
		HEM	6	14	9/16	4	14	9/16	89	3-1/2	T45-89BF-1947	44401
		BAL	6	14	9/16	4	14	9/16	89	3-1/2	T45-89BFB-1948	44402
NO.	FLAT FACE	CARBIDE DIMENSIONS				DIAMETER		PART NUMBER				
		GAUGE NO. X DIA.		FRONT NO. X DIA.		D		USA	AUSTRIA			
		DESIGN	No.	mm	In.	No.	mm	In.	mm	In.		
3		HEM	8	12.7	1/2	5	10	13/32	76	3	T45-76BF-3267	44220
		BAL	8	12.7	1/2	5	10	13/32	76	3	T45-76BFB-3850	41156
		HEM	8	12.7	1/2	6	12.7	1/2	89	3-1/2	T45-89BF-3959	41157
		BAL	8	12.7	1/2	5	12.7	1/2	89	3-1/2	T45-89BFB-3614	44040
NO.	FLAT FACE	CARBIDE DIMENSIONS				DIAMETER		PART NUMBER				
		GAUGE NO. X DIA.		FRONT NO. X DIA.		D		USA	AUSTRIA			
		DESIGN	No.	mm	In.	No.	mm	In.	mm	In.		
4		HEM	8	14	9/16	6	12.7	1/2	102	4	T45-102BF-4006	44016
NO.	FLAT FACE	CARBIDE DIMENSIONS				DIAMETER		PART NUMBER				
		GAUGE NO. X DIA.		FRONT NO. X DIA.		D		USA	AUSTRIA			
		DESIGN	No.	mm	In.	No.	mm	In.	mm	In.		
5		HEM	8	11	7/16	6	11	7/16	76	3	T45-76BF-040	44693
		BAL	8	11	7/16	6	11	7/16	76	3	T45-76BFB-274	44774
		HEM	8	12.7	1/2	6	11	7/16	82	3-1/4	T45-82BF-2797	44456
		BAL	8	12.7	1/2	6	11	7/16	82	3-1/4	T45-82BFB-2124	44388
		HEM	8	12.7	1/2	6	12.7	1/2	89	3-1/2	T45-89BF-1157	44553
		HEM	8	14	9/16	6	12.7	1/2	89	3-1/2	T45-89BF-2585	44696
		BAL	8	12.7	1/2	6	12.7	1/2	89	3-1/2	T45-89BFB-1327	44663
		HEM	8	14	9/16	6	14	9/16	102	4	T45-102BF-1057	44635
		BAL	8	14	9/16	6	14	9/16	102	4	T45-102BFB-1447	44634
		HEM	8	16	5/8	6	14	9/16	115	4-1/2	T45-115BF-1449	44557
		HEM	8	16	5/8	8	14	9/16	127	5	T45-127BF-328	44773
		BAL	8	16	5/8	8	16	5/8	152	6	T45-152BFB-3278	45761
NO.	FLAT FACE	CARBIDE DIMENSIONS				DIAMETER		PART NUMBER				
		GAUGE NO. X DIA.		FRONT NO. X DIA.		D		USA	AUSTRIA			
		DESIGN	No.	mm	In.	No.	mm	In.	mm	In.		
6		HEM	9	11	7/16	8	10	13/32	89	3-1/2	T45-89BF-1459	44853
		BAL	9	11	7/16	8	10	13/32	89	3-1/2	T45-89BFB-1580	44854
		HEM	9	12.7	1/2	8	12.7	1/2	102	4	T45-102BF-1460	44861
		BAL	9	12.7	1/2	8	12.7	1/2	102	4	T45-102BFB-1581	44862
		HEM	9	14	9/16	9	12.7	1/2	115	4-1/2	T45-115BF-1582	44901
		HEM	9	14	9/16	9	14	9/16	127	5	T45-127BF-1583	44902

CARBIDE PROFILE DESIGNS



Hemispherical



Hemispherical MultiPoint



(Semi) Ballistic



(Semi) Ballistic MultiPoint



CrownPoint



Conical



Full Ballistic

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 Note: Some button bits may not be offered with a particular carbide design shown above.

THREADED BITS



T45 1-3/4" (CONTINUED)

These bits are available optionally in XT45 thread for use in Rockmore's Vector Rod System.



NO.	DROP CENTER	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		HEM	6	11	7/16	3	11	7/16	70	2-3/4	T45-70BDC-932	44591
		BAL	6	11	7/16	3	11	7/16	70	2-3/4	T45-70BDCB-175	44592
		HEM	6	12.7	1/2	3	11	7/16	76	3	T45-76BDC-042	44744
		BAL	6	12.7	1/2	3	11	7/16	76	3	T45-76BDCB-1463	44781
		HEM	6	14	9/16	3	12.7	1/2	89	3-1/2	T45-89BDC-048	44593
		BAL	6	14	9/16	3	12.7	1/2	89	3-1/2	T45-89BDCB-1465	44594
8		HEM	8	11	7/16	4	10	13/32	76	3	T45-76BDC-1148	44863
		BAL	8	11	7/16	4	10	13/32	76	3	T45-76BDCB-1316	44864
		HEM	8	11	7/16	4	11	7/16	83	3-1/4	T45-83BDC-2938	44260
		BAL	8	11	7/16	4	11	7/16	83	3-1/4	T45-83BDCB-2939	44261
		HEM	8	11	7/16	4	11	7/16	89	3-1/2	T45-89BDC-1142	44818
		HEM	8	12.7	1/2	4	12.7	1/2	89	3-1/2	T45-89BDC-3987	44008
		BAL	8	11	7/16	4	11	7/16	89	3-1/2	T45-89BDCB-1318	44819
		BAL	8	12.7	1/2	4	12.7	1/2	89	3-1/2	T45-89BDCB-3995	44004
		HEM	8	14	9/16	4	12.7	1/2	102	4	T45-102BDC-1131	44820
		BAL	8	14	9/16	4	12.7	1/2	102	4	T45-102BDCB-1451	44865
		HEM	8	14	9/16	4	14	9/16	115	4-1/2	T45-115BDC-329	44866
		9		HEM	6	11	7/16	5	11	7/16	70	2-3/4
BAL	6			11	7/16	5	11	7/16	70	2-3/4	T45-70BSDB-977	44525
HEM	6			11	7/16	5	11	7/16	76	3	T45-76BSD-338	44526
BAL	6			11	7/16	5	11	7/16	76	3	T45-76BSDB-271	44998
HEM	6			14	9/16	5	12.7	1/2	89	3-1/2	T45-89BSD-307	44595
BAL	6			14	9/16	5	12.7	1/2	89	3-1/2	T45-89BSDB-785	44596
10		HEM	6	12.7	1/2	3	12.7	1/2	76	3	T45-76BFRT-2676	44311
		BAL	6	12.7	1/2	3	12.7	1/2	76	3	T45-76BFRTB-2677	44312
		HEM	6	14	9/16	4	14	9/16	89	3-1/2	T45-89BFRT-2645	44403
		BAL	6	14	9/16	4	14	9/16	89	3-1/2	T45-89BFRTB-2646	44404

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.

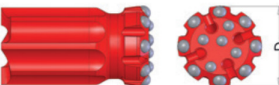
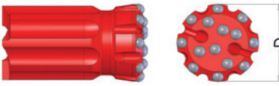

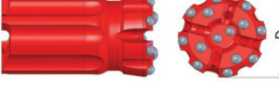
THREADED BITS



T45 1-3/4" (CONTINUED)

These bits are available optionally in XT45 thread for use in Rockmore's Vector Rod System.



NO.	FLAT FACE - RETRAC	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.				
11		HEM	8	12.7	1/2	5	10	13/32	76	3	T45-76BFRT-3282	44133		
		HEM	8	12.7	1/2	5	12.7	1/2	89	3-1/2	T45-89BFRT-4088	44144		
12		HEM	8	11	7/16	6	11	7/16	76	3	T45-76BFRT-1923	44684		
		BAL	8	11	7/16	6	11	7/16	76	3	T45-76BFRTB-1924	44692		
		BAL	8	12.7	1/2	6	11	7/16	82	3-1/4	T45-82BFRTB-2246	44384		
		CON	8	12.7	1/2	6	11	7/16	82	3-1/4	T45-82BFRTC-4087	44331		
		HEM	8	12.7	1/2	6	12.7	1/2	89	3-1/2	T45-89BFRT-2097	44622		
		HEM	8	14	9/16	6	12.7	1/2	89	3-1/2	T45-89BFRT-2577	44399		
		BAL	8	12.7	1/2	6	12.7	1/2	89	3-1/2	T45-89BFRTB-2043	44654		
		HEM	8	14	9/16	6	14	9/16	102	4	T45-102BFRT-2045	44641		
		BAL	8	14	9/16	6	14	9/16	102	4	T45-102BFRTB-327	44657		
		HEM	8	16	5/8	6	14	9/16	115	4-1/2	T45-115BFRT-2546	44554		
		HEM	8	16	5/8	8	14	9/16	127	5	T45-127BFRT-2647	44903		
		13		HEM	6	11	7/16	3	11	7/16	70	2-3/4	T45-70BRTDC-2648	44904
				BAL	6	11	7/16	3	11	7/16	70	2-3/4	T45-70BRTDCB-2649	44905
				HEM	6	12.7	1/2	3	11	7/16	76	3	T45-76BRTDC-2175	44552
BAL	6			12.7	1/2	3	11	7/16	76	3	T45-76BRTDCB-2411	44906		
HEM	6			14	9/16	3	12.7	1/2	89	3-1/2	T45-89BRTDC-2241	44973		
BAL	6			14	9/16	3	12.7	1/2	89	3-1/2	T45-89BRTDCB-2313	44974		
HEM	6			11	7/16	1	9.5	3/8						
BAL	6			11	7/16	1	9.5	3/8						
HEM	6			12.7	1/2	1	9.5	3/8						
BAL	6			12.7	1/2	1	9.5	3/8						
HEM	6			14	9/16	2	9.5	3/8						
BAL	6			14	9/16	2	9.5	3/8						
14		HEM	8	11	7/16	4	10	13/32	76	3	T45-76BRTDC-1926	44814		
		BAL	8	11	7/16	4	10	13/32	76	3	T45-76BRTDCB-862	44822		
		HEM	8	11	7/16	4	11	7/16	89	3-1/2	T45-89BRTDC-1927	44801		
		HEM	8	12.7	1/2	4	12.7	1/2	89	3-1/2	T45-89BRTDC-4001	41135		
		BAL	8	11	7/16	4	11	7/16	89	3-1/2	T45-89BRTDCB-861	44745		
		BAL	8	12.7	1/2	4	12.7	1/2	89	3-1/2	T45-89BRTDCB-4002	41136		
		HEM	8	14	9/16	4	12.7	1/2	102	4	T45-102BRTDC-2484	44907		
		BAL	8	14	9/16	4	12.7	1/2	102	4	T45-102BRTDCB-21	44823		
		HEM	8	14	9/16	4	14	9/16	115	4-1/2	T45-115BRTDC-2650	44556		
		HEM	8	16	5/8	4	16	5/8	127	5	T45-127BRTDC-2651	44995		
		HEM	8	11	7/16	1	10	13/32						
		BAL	8	11	7/16	1	10	13/32						
		HEM	8	11	7/16	2	9.5	3/8						
		BAL	8	11	7/16	2	9.5	3/8						

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.

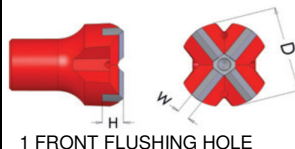
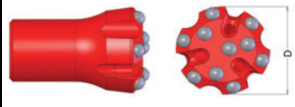
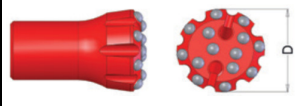
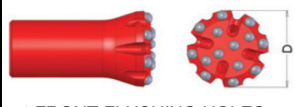
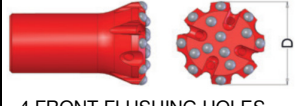
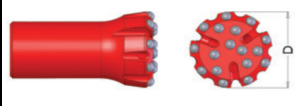
THREADED BITS



T51 2"

These bits are available optionally in XT51 thread for use in Rockmore's Vector Rod System.



NO.	X MULTI - USE  1 FRONT FLUSHING HOLE	CARBIDE DIMENSIONS				DIAMETER		PART NUMBER						
		W		H		D		USA	AUSTRIA					
		mm	In.	mm	In.	mm	In.							
1		12.7	1/2	25	1	89	3-1/2	T51-89XHD-911	49636					
		16	5/8	25	1	102	4	T51-102XHD-182	49693					
		16	5/8	25	1	115	4-1/2	T51-115XHD-157	49694					
NO.	FLAT FACE  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.					
2		HEM	6	14	9/16	4	14	9/16	89	3-1/2	T51-89BF-1951	44405		
		BAL	6	14	9/16	4	14	9/16	89	3-1/2	T51-89BFB-1952	44406		
NO.	FLAT FACE  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	6	11	7/16	82	3-1/4	T51-82BF-1887	44457
				BAL	8	12.7	1/2	6	11	7/16	82	3-1/4	T51-82BFB-2123	44389
		3		HEM	8	12.7	1/2	6	11	7/16	85	3-3/8	T51-85BF-1889	44443
				BAL	8	12.7	1/2	6	11	7/16	85	3-3/8	T51-85BFB-2360	44343
		3		HEM	8	12.7	1/2	6	12.7	1/2	89	3-1/2	T51-89BF-1328	44638
				BAL	8	12.7	1/2	6	12.7	1/2	89	3-1/2	T51-89BFB-1317	44765
		3		CON	8	12.7	1/2	6	12.7	1/2	89	3-1/2	T51-89BFC-3796	44055
				HEM	8	14	9/16	6	14	9/16	102	4	T51-102BF-1330	44639
		3		BAL	8	14	9/16	6	14	9/16	102	4	T51-102BFB-1452	44762
				HEM	8	16	5/8	6	14	9/16	115	4-1/2	T51-115BF-1590	44640
		3		BAL	8	16	5/8	6	14	9/16	115	4-1/2	T51-115BFB-1444	44558
				HEM	8	16	5/8	8	14	9/16	127	5	T51-127BF-1591	44642
3		HEM	8	16	5/8	8	16	5/8	140	5-1/2	T51-140BF-1699	44988		
NO.	FLAT FACE  4 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		HEM	8	12.7	1/2	5	12.7	1/2	89	3-1/2	T51-89BF-3575	44017
HEM	8			14	9/16	6	12.7	1/2	102	4	T51-102BF-1836	44467		
BAL	8			14	9/16	6	12.7	1/2	102	4	T51-102BFB-1837	44468		
NO.	FLAT FACE  4 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	14	9/16	115	4-1/2	T51-115BF-1740	44970
				BAL	8	14	9/16	7	14	9/16	115	4-1/2	T51-115BFB-1838	44469
		5		HEM	8	16	5/8	7	14	9/16	121	4-3/4	T51-121BF-4090	44250
BAL	8			16	5/8	7	14	9/16	121	4-3/4	T51-121BFB-4091	44251		
5		HEM	8	16	5/8	8	14	9/16	127	5	T51-127BF-1839	44470		
NO.	FLAT FACE  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.					
		6		HEM	9	11	7/16	8	10	13/32	89	3-1/2	T51-89BF-1389	44855
				BAL	9	11	7/16	8	10	13/32	89	3-1/2	T51-89BFB-1592	44856
		6		HEM	9	12.7	1/2	8	12.7	1/2	102	4	T51-102BF-1516	44857
				BAL	9	12.7	1/2	8	12.7	1/2	102	4	T51-102BFB-1594	44858
6		HEM	9	14	9/16	9	12.7	1/2	115	4-1/2	T51-115BF-1476	44909		
		HEM	9	14	9/16	9	14	9/16	127	5	T51-127BF-1477	44910		

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.

THREADED BITS



T51 2" (CONTINUED)

These bits are available optionally in XT51 thread for use in Rockmore's Vector Rod System.



NO.	FLAT FACE, STARFLOW	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		HEM	10	14	9/16	9	12.7	1/2	115	4-1/2	T51-115BF-3636	44080
		HEM	10	16	5/8	7	16	5/8	127	5	T51-127BF-3637	44081
		HEM	10	16	5/8	8	16	5/8	140	5-1/2	T51-140BF-3638	44082
8		HEM	6	12.7	1/2	3	11	7/16	76	3	T51-76BDC-2610	44307
		BAL	6	12.7	1/2	3	11	7/16	76	3	T51-76BDCB-2621	44308
		HEM	6	12.7	1/2	3	11	7/16	80	3-1/8	T51-80BDC-255	44309
9		BAL	6	12.7	1/2	3	11	7/16	80	3-1/8	T51-80BDCB-2678	44310
		HEM	6	14	9/16	3	12.7	1/2	89	3-1/2	T51-89BDC-1597	44871
		BAL	6	14	9/16	3	12.7	1/2	89	3-1/2	T51-89BDCB-1595	44872
9		HEM	8	11	7/16	4	11	7/16	89	3-1/2	T51-89BDC-1329	44760
		HEM	8	12.7	1/2	4	12.7	1/2	89	3-1/2	T51-89BDC-3934	44007
		BAL	8	11	7/16	4	11	7/16	89	3-1/2	T51-89BDCB-1308	44759
		BAL	8	12.7	1/2	4	12.7	1/2	89	3-1/2	T51-89BDCB-3999	44003
		HEM	8	14	9/16	4	12.7	1/2	102	4	T51-102BDC-1325	44764
		BAL	8	14	9/16	4	12.7	1/2	102	4	T51-102BDCB-1305	44763
		HEM	8	14	9/16	4	14	9/16	115	4-1/2	T51-115BDC-260	44610
		BAL	8	14	9/16	4	14	9/16	115	4-1/2	T51-115BDCB-051	44611
		HEM	8	16	5/8	4	16	5/8	127	5	T51-127BDC-2001	44849
		BAL	8	16	5/8	4	16	5/8	127	5	T51-127BDCB-900	44870
		HEM	8	16	5/8	4	16	5/8	140	5-1/2	T51-140BDC-1440	44989
		10		HEM	10	14	9/16	5	12.7	1/2	115	4-1/2
HEM	10			16	5/8	5	16	5/8	127	5	T51-127BDC-3640	44087
HEM	10			16	5/8	5	16	5/8	140	5-1/2	T51-140BDC-3641	44088

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.

THREADED BITS



T51 2" (CONTINUED)

These bits are available optionally in XT51 thread for use in Rockmore's Vector Rod System.



NO.	FLAT FACE - RETRAC	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.		
11		HEM	6	14	9/16	4	14	9/16	89	3-1/2	T51-89BFRT-2652	44407
		BAL	6	14	9/16	4	14	9/16	89	3-1/2	T51-89BFRTB-2653	44408
	3 FRONT FLUSHING HOLES											
12		BAL	8	12.7	1/2	6	11	7/16	82	3-1/4	T51-82BFRTB-2136	44386
		CON	8	12.7	1/2	6	11	7/16	82	3-1/4	T51-82BFRTC-4092	44770
		HEM	8	12.7	1/2	6	12.7	1/2	89	3-1/2	T51-89BFRT-2176	44645
		BAL	8	12.7	1/2	6	12.7	1/2	89	3-1/2	T51-89BFRTB-2007	44691
		CON	8	12.7	1/2	6	12.7	1/2	89	3-1/2	T51-89BFRTC-2189	44496
		HEM	8	12.7	1/2	6	12.7	1/2	93	3-11/16	T51-93BFRT-3248	44223
		BAL	8	12.7	1/2	6	12.7	1/2	93	3-11/16	T51-93BFRTB-3247	44224
		BAL	8	12.7	1/2	6	12.7	1/2	95	3-3/4	T51-95BFRTB-3185	44233
		HEM	8	14	9/16	6	14	9/16	102	4	T51-102BFRT-2122	44724
		BAL	8	14	9/16	6	14	9/16	102	4	T51-102BFRTB-187	44678
		HEM	8	16	5/8	6	14	9/16	115	4-1/2	T51-115BFRT-2654	44978
		HEM	8	16	5/8	8	14	9/16	127	5	T51-127BFRT-2655	44979
		HEM	8	16	5/8	8	16	5/8	140	5-1/2	T51-140BFRT-2656	44980
			2 FRONT FLUSHING HOLES									
13		HEM	8	12.7	1/2	5	12.7	1/2	89	3-1/2	T51-89BFRT-3571	44045
		BAL	8	12.7	1/2	5	12.7	1/2	89	3-1/2	T51-89BFRTB-3861	44028
		HEM	8	14	9/16	6	12.7	1/2	102	4	T51-102BFRT-2531	44471
		BAL	8	14	9/16	6	12.7	1/2	102	4	T51-102BFRTB-969	44472
	4 FRONT FLUSHING HOLES											
14		HEM	8	14	9/16	7	14	9/16	115	4-1/2	T51-115BFRT-2660	44473
		BAL	8	14	9/16	7	14	9/16	115	4-1/2	T51-115BFRTB-4089	44392
		HEM	8	16	5/8	8	14	9/16	127	5	T51-127BFRT-2661	44474
		CON	8	14	9/16	8	14	9/16	127	5	T51-127BFRTC-2897	44446
	4 FRONT FLUSHING HOLES											
15		HEM	9	11	7/16	8	10	13/32	89	3-1/2	T51-89BFRT-2604	44960
		BAL	9	11	7/16	8	10	13/32	89	3-1/2	T51-89BFRTB-2172	44961
		HEM	9	12.7	1/2	8	12.7	1/2	102	4	T51-102BFRT-2483	44962
		BAL	9	12.7	1/2	8	12.7	1/2	102	4	T51-102BFRTB-250	44963
		CON	9	12.7	1/2	8	12.7	1/2	102	4	T51-102BFRTC-090	44383
		HEM	9	14	9/16	9	12.7	1/2	115	4-1/2	T51-115BFRT-2284	44964
		BAL	9	14	9/16	9	12.7	1/2	115	4-1/2	T51-115BFRTB-2930	44679
		HEM	9	14	9/16	9	14	9/16	127	5	T51-127BFRT-2659	44965
	3 FRONT FLUSHING HOLES											
16		HEM	10	14	9/16	9	12.7	1/2	115	4-1/2	T51-115BFRT-3630	44083
		HEM	10	16	5/8	7	16	5/8	127	5	T51-127BFRT-3631	44084
		HEM	10	16	5/8	8	16	5/8	140	5-1/2	T51-140BFRT-3632	44085
	5 FRONT FLUSHING HOLES											

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.

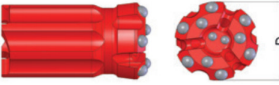
THREADED BITS



T51 2" (CONTINUED)

These bits are available optionally in XT51 thread for use in Rockmore's Vector Rod System.



NO.	DROPS CENTER - RETRAC	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		HEM	6	14	9/16	3	12.7	1/2	89	3-1/2	T51-89BRTDC-2238	44975
		BAL	6	14	9/16	2	9.5	3/8	89	3-1/2	T51-89BRTDCB-916	44976
3 FRONT FLUSHING HOLES												
NO.	DROPS CENTER - RETRAC	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.		
18		HEM	8	11	7/16	4	11	7/16	89	3-1/2	T51-89BRTDC-2330	44761
		HEM	8	12.7	1/2	2	9.5	3/8	89	3-1/2	T51-89BRTDC-4003	41137
		BAL	8	11	7/16	4	11	7/16	89	3-1/2	T51-89BRTDCB-909	44746
		BAL	8	12.7	1/2	2	9.5	3/8	89	3-1/2	T51-89BRTDCB-4004	41138
		CON	8	12.7	1/2	4	12.7	1/2	89	3-1/2	T51-89BRTDCC-2511	44336
		BAL	8	12.7	1/2	1	12.7	1/2	93	3-11/16	T51-93BRTDCB-3409	44187
		HEM	8	14	9/16	4	12.7	1/2	102	4	T51-102BRTDC-2662	44747
		BAL	8	14	9/16	3	11	7/16	102	4	T51-102BRTDCB-210	44748
		CON	8	14	9/16	4	12.7	1/2	102	4	T51-102BRTDCC-010	44749
		HEM	8	14	9/16	3	11	7/16	102	4	T51-102BRTDCB-210	44748
		HEM	8	14	9/16	4	12.7	1/2	102	4	T51-102BRTDCC-010	44749
		HEM	8	16	5/8	4	16	5/8	127	5	T51-127BRTDC-2663	44983
HEM	8	16	5/8	3	12.7	1/2	127	5	T51-127BRTDC-2663	44983		
HEM	8	16	5/8	4	16	5/8	140	5-1/2	T51-140BRTDC-2664	44984		
HEM	8	16	5/8	4	14	9/16	140	5-1/2	T51-140BRTDC-2664	44984		
4 FRONT FLUSHING HOLES												
NO.	DROPS CENTER - XTRAC	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		HEM	8	16	5/8	4	12.7	1/2	102	4	T51-102BRTDC-3993	44006
		BAL	8	16	5/8	1	12.7	1/2	102	4	T51-102BRTDCB-4034	44005
4 FRONT FLUSHING HOLES												
NO.	DROPS CENTER - RETRAC, STARFLOW	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.		
20		HEM	10	14	9/16	5	12.7	1/2	115	4-1/2	T51-115BRTDC-3617	44089
		HEM	10	16	5/8	3	12.7	1/2	115	4-1/2	T51-115BRTDC-3617	44089
		HEM	10	16	5/8	5	16	5/8	127	5	T51-127BRTDC-3633	44090
HEM	10	16	5/8	3	12.7	1/2	127	5	T51-127BRTDC-3633	44090		
HEM	10	16	5/8	5	16	5/8	140	5-1/2	T51-140BRTDC-3634	44091		
HEM	10	16	5/8	4	14	9/16	140	5-1/2	T51-140BRTDC-3634	44091		
5 FRONT FLUSHING HOLES												

CARBIDE PROFILE DESIGNS



Hemispherical



Hemispherical MultiPoint



(Semi) Ballistic



(Semi) Ballistic MultiPoint



CrownPoint



Conical

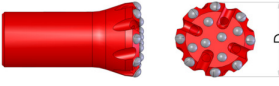
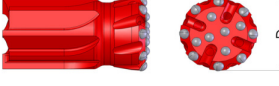


Full Ballistic

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.

THREADED BITS



T51 2" Xtreme Series (for extreme hard and abrasive rock conditions - with FA carbide)												
NO.	FLAT FACE, XTREME	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.			
21	 4 FRONT FLUSHING HOLES	FA	8	14	9/16	6	12.7	1/2	102	4	T51-102BF-XTR	44439
		FA	8	14	9/16	7	14	9/16	115	4-1/2	T51-115BF-XTR	44440
		FA	8	16	5/8	8	14	9/16	127	5	T51-127BF-XTR	44351
NO.	FLAT FACE - RETRAC, XTREME	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.			
22	 4 FRONT FLUSHING HOLES	FA	8	14	9/16	6	12.7	1/2	102	4	T51-102BFRT-XTR	44348
		FA	8	14	9/16	7	14	9/16	115	4-1/2	T51-115BFRT-XTR	44349
		FA	8	16	5/8	8	14	9/16	127	5	T51-127BFRT-XTR	44350

CARBIDE PROFILE DESIGNS



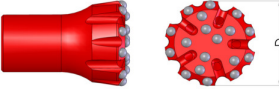
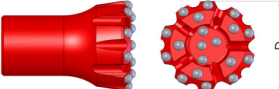
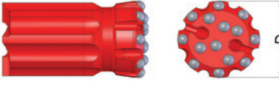
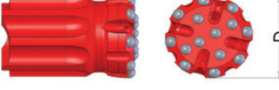
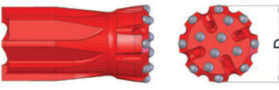
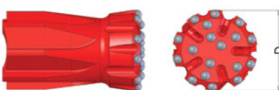
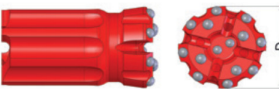
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 Note: Some button bits may not be offered with a particular carbide design shown above.

THREADED BITS



XT51 2" ROCKMORE Vector Rod System



NO.	DESCRIPTION	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	FLAT FACE, STARFLOW  5 FRONT FLUSHING HOLES	HEM	10	16	5/8	8	16	5/8	140	5-1/2	XT51-140BF-4093	44051
		2	DROP CENTER, STARFLOW  5 FRONT FLUSHING HOLES	HEM	10	16	5/8	5	16	5/8	140	5-1/2
						4	14	9/16				
3	FLAT FACE - RETRAC  2 FRONT FLUSHING HOLES	HEM	8	12.7	1/2	6	12.7	1/2	89	3-1/2	XT51-89BFRT-3292	44215
		4	FLAT FACE - RETRAC  4 FRONT FLUSHING HOLES	CP	8	14	9/16	6	12.7	1/2	102	4
CON	8			14	9/16	6	14	9/16	102	4	XT51-102BFRTC-3298	44213
5	FLAT FACE - XTRAC  4 FRONT FLUSHING HOLES	CP	8	12.7	1/2	6	12.7	1/2	102	4	XT51-102BFRTCP-3472	44174
		HEM / BAL	8	14	9/16	6	14	9/16	102	4	XT51-102BFRT-3554	44148
		CP	8	14	9/16	6	14	9/16	102	4	XT51-102BFRTCP-3491	44167
		BAL	8	12.7	1/2	6	12.7	1/2	102	4	XT51-102BFRTB-3473	44173
		BAL	8	14	9/16	6	14	9/16	102	4	XT51-102BFRTB-3492	44166
		CON	8	14	9/16	6	14	9/16	102	4	XT51-102BFRTC-3377	44194
6	FLAT FACE - XTRAC, STARFLOW  5 FRONT FLUSHING HOLES	HEM	10	16	5/8	8	16	5/8	140	5-1/2	XT51-140BFRT-4095	44052
7	DROP CENTER - RETRAC  4 FRONT FLUSHING HOLES	CON	8	11	7/16	4	11	7/16	89	3-1/2	XT51-89BRTDCC-3297	44212
						2	9.5	3/8				

CARBIDE PROFILE DESIGNS



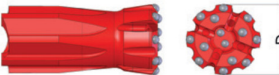
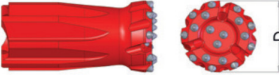
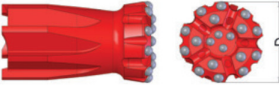
HEM = Hemispherical Carbide; BAL = (Semi) Ballistic Carbide; CP = CrownPoint carbide; CON = Conical carbide; FB = Full Ballistic Carbide; MP = MultiPoint carbide, on request
 Note: Some button bits may not be offered with a particular carbide design shown above.

THREADED BITS



XT51 2" ROCKMORE Vector Rod System (CONTINUED)



NO.	DROP CENTER - XTRAC	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.			
8	 4 FRONT FLUSHING HOLES	HEM	8	11	7/16	4	11	7/16	89	3-1/2	XT51-89BRTDC-3421	44214	
		BAL	8	11	7/16	4	11	7/16	89	3-1/2	XT51-89BRTDCB-3562	44146	
NO.	DROP CENTER - XTRAC	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	 3 FRONT FLUSHING HOLES	BAL	9	10	13/32	6	10	13/32	94	3-11/16	XT51-94BRTDCB-3315	44121	
		CON	9	10	13/32	6	10	13/32	94	3-11/16	XT51-94BRTDCC-3319	44203	
NO.	DROP CENTER - XTRAC, STARFLOW	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	 5 FRONT FLUSHING HOLES	HEM	10	16	5/8	5	16	5/8	140	5-1/2	XT51-140BRTDC-4096	44054	

CARBIDE PROFILE DESIGNS



Hemispherical



Hemispherical MultiPoint



(Semi) Ballistic



(Semi) Ballistic MultiPoint



CrownPoint



Conical

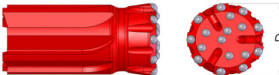
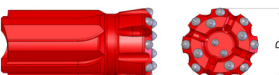



Full Ballistic

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.

THREADED BITS



ST58 2-1/4"												
NO.	FLAT FACE - RETRAC	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	 3 FRONT FLUSHING HOLES	HEM	9	11	7/16	8	10	13/32	89	3-1/2	ST58-89BFRT-1713	44929
		BAL	9	11	7/16	8	10	13/32	89	3-1/2	ST58-89BFRTB-365	44930
		BAL	9	11	7/16	8	11	7/16	93	3-11/16	ST58-93BFRTB-1489	44921
		CON	9	12.7	1/2	8	11	7/16	93	3-11/16	ST58-93BFRTC-936	44493
		HEM	9	12.7	1/2	8	12.7	1/2	102	4	ST58-102BFRT-381	44931
		BAL	9	12.7	1/2	8	12.7	1/2	102	4	ST58-102BFRTB-424	44932
2	 4 FRONT FLUSHING HOLES	HEM	8	11	7/16	4	11	7/16	89	3-1/2	ST58-89BRTDC-367	44934
						2	9.5	3/8				
		BAL	8	11	7/16	4	11	7/16	89	3-1/2	ST58-89BRTDCB-368	44935
						2	9.5	3/8				
		HEM	8	14	9/16	4	12.7	1/2	102	4	ST58-102BRTDC-438	44924
						3	11	7/16				
		BAL	8	14	9/16	4	12.7	1/2	102	4	ST58-102BRTDCB-257	44936
						3	11	7/16				
		HEM	8	14	9/16	4	14	9/16	115	4-1/2	ST58-115BRTDC-474	44937
						3	12.7	1/2				
HEM	8	16	5/8	4	16	5/8	127	5	ST58-127BRTDC-089	44986		
				3	12.7	1/2						
3	 4 FRONT FLUSHING HOLES	BAL	8	12.7	1/2	4	12.7	1/2	93	3-11/16	ST58-93BRTDCB-304	44916
						2	9.5	3/8				

CARBIDE PROFILE DESIGNS



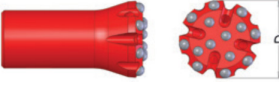
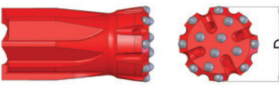
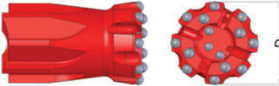
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 Note: Some button bits may not be offered with a particular carbide design shown above.

THREADED BITS



XT60 2-3/8" (ROCKMORE XT60) ROCKMORE Vector Rod System



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	 4 FRONT FLUSHING HOLES	HEM	8	14	9/16	6	12.7	1/2	102	4	XT60-102BF-3593	44140
		BAL	8	14	9/16	6	12.7	1/2	102	4	XT60-102BFB-3595	44139
		HEM	8	14	9/16	7	14	9/16	115	4-1/2	XT60-115BF-3594	44141
		BAL	8	14	9/16	7	14	9/16	115	4-1/2	XT60-115BFB-3596	44142
2	FLAT FACE - XTRAC  4 FRONT FLUSHING HOLES	HEM	8	14	9/16	6	12.7	1/2	102	4	XT60-102BFRT-3835	44036
3	DROP CENTER - XTRAC  4 FRONT FLUSHING HOLES	BAL	8	14	9/16	4	12.7	1/2	102	4	XT60-102BRTDCB-3834	44037
		HEM	8	14	9/16	3	11	7/16				
		HEM	8	14	9/16	4	14	9/16	115	4-1/2	XT60-115BRTDC-3815	44041
		HEM	8	16	5/8	3	12.7	1/2				
		HEM	8	16	5/8	4	16	5/8	127	5	XT60-127BRTDC-3656	44042
		HEM	8	16	5/8	4	16	5/8	140	5-1/2	XT60-140BRTDC-3816	44043

CARBIDE PROFILE DESIGNS

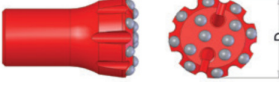
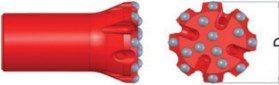
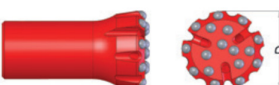
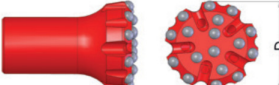
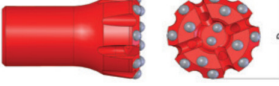


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THREADED BITS



GT60 2-3/8"

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		HEM	8	12.7	1/2	6	12.7	1/2	93	3-11/16	GT60-93BF-2708	44290
		BAL	8	12.7	1/2	6	12.7	1/2	93	3-11/16	GT60-93BFB-2709	44289
		HEM	8	12.7	1/2	6	12.7	1/2	95	3-3/4	GT60-95BF-2710	44288
		BAL	8	12.7	1/2	6	12.7	1/2	95	3-3/4	GT60-95BFB-2711	44287
2		HEM	8	14	9/16	6	12.7	1/2	102	4	GT60-102BF-2160	44359
		HEM	8	16	5/8	6	12.7	1/2	102	4	GT60-102BF-3609	44136
		BAL	8	14	9/16	6	12.7	1/2	102	4	GT60-102BFB-2161	44360
		HEM	8	14	9/16	7	14	9/16	115	4-1/2	GT60-115BF-2162	44361
		BAL	8	14	9/16	7	14	9/16	115	4-1/2	GT60-115BFB-2163	44362
		HEM	8	16	5/8	8	14	9/16	127	5	GT60-127BF-2164	44363
3		HEM	9	12.7	1/2	8	12.7	1/2	102	4	GT60-102BF-3717	44071
		BAL	9	12.7	1/2	8	12.7	1/2	102	4	GT60-102BFB-3718	44072
		HEM	9	14	9/16	9	12.7	1/2	115	4-1/2	GT60-115BF-3719	44075
		HEM	9	14	9/16	9	14	9/16	127	5	GT60-127BF-3720	44077
4		HEM	10	14	9/16	9	12.7	1/2	115	4-1/2	GT60-115BF-3642	44104
		HEM	10	16	5/8	7	16	5/8	127	5	GT60-127BF-3643	44105
		HEM	10	16	5/8	8	16	5/8	140	5-1/2	GT60-140BF-3644	44106
		HEM	10	16	5/8	8	16	5/8	152	6	GT60-152BF-3947	44009
5		HEM	8	12.7	1/2	4	12.7	1/2	93	3-11/16	GT60-93BDC-2085	44286
						2	9.5	3/8				
		BAL	8	12.7	1/2	4	12.7	1/2	93	3-11/16	GT60-93BDCB-2712	44285
						2	9.5	3/8				
		HEM	8	12.7	1/2	4	12.7	1/2	95	3-3/4	GT60-95BDC-2713	44284
						2	9.5	3/8				
		BAL	8	12.7	1/2	4	12.7	1/2	95	3-3/4	GT60-95BDCB-2714	44283
						2	9.5	3/8				
		HEM	8	14	9/16	4	12.7	1/2	102	4	GT60-102BDC-2086	44364
						3	11	7/16				
		BAL	8	14	9/16	4	12.7	1/2	102	4	GT60-102BDCB-766	44365
						3	11	7/16				
		HEM	8	14	9/16	4	14	9/16	115	4-1/2	GT60-115BDC-2087	44366
						3	12.7	1/2				
BAL	8	14	9/16	4	14	9/16	115	4-1/2	GT60-115BDCB-938	44367		
				3	12.7	1/2						
HEM	8	16	5/8	4	16	5/8	127	5	GT60-127BDC-1999	44368		
				3	12.7	1/2						
BAL	8	16	5/8	4	16	5/8	127	5	GT60-127BDCB-2064	44369		
				3	12.7	1/2						
HEM	8	16	5/8	4	16	5/8	140	5-1/2	GT60-140BDC-2000	44370		
				4	14	9/16						
HEM	8	16	5/8	6	16	5/8	152	6	GT60-152BDC-2342	44208		
				4	14	9/16						

CARBIDE PROFILE DESIGNS



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THREADED BITS



GT60 2-3/8" (CONTINUED)

NO.	DROP CENTER, STARFLOW	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	10	14	9/16	5	12.7	1/2	115	4-1/2	GT60-115BDC-3645	44108
		HEM	10	16	5/8	5	16	5/8	127	5	GT60-127BDC-3646	44109
		HEM	10	16	5/8	5	16	5/8	140	5-1/2	GT60-140BDC-3647	44110
7	FLAT FACE - RETRAC 	HEM	8	12.7	1/2	6	12.7	1/2	93	3-11/16	GT60-93BFRT-2715	44282
		BAL	8	12.7	1/2	6	12.7	1/2	93	3-11/16	GT60-93BFRTB-2716	44281
		HEM	8	12.7	1/2	6	12.7	1/2	95	3-3/4	GT60-95BFRT-2717	44280
		BAL	8	12.7	1/2	6	12.7	1/2	95	3-3/4	GT60-95BFRTB-2718	44279
8	FLAT FACE - XTRAC 	BAL	8	12.7	1/2	6	12.7	1/2	95	3-3/4	GT60-95BFRTB-3506	44158
		BAL	8	14	9/16	6	12.7	1/2	102	4	GT60-102BFRTB-3653	44120
9	FLAT FACE - RETRAC 	BAL	9	12.7	1/2	9	11	7/16	93	3-11/16	GT60-93BFRTB-3177	44234
10	FLAT FACE - RETRAC 	BAL	9	12.7	1/2	9	12.7	1/2	93	3-11/16	GT60-93BFRTB-3516	44160
		CON	9	12.7	1/2	9	12.7	1/2	93	3-11/16	GT60-93BFRTC-3369	44196
11	FLAT FACE - XTRAC 	BAL	9	12.7	1/2	9	12.7	1/2	94	3-11/16	GT60-94BFRTB-3577	44143
12	FLAT FACE - RETRAC 	HEM	8	14	9/16	6	12.7	1/2	102	4	GT60-102BFRT-706	44371
		BAL	8	14	9/16	6	12.7	1/2	102	4	GT60-102BFRTB-19	44372
		HEM	8	14	9/16	7	14	9/16	115	4-1/2	GT60-115BFRT-721	44373
		BAL	8	14	9/16	7	14	9/16	115	4-1/2	GT60-115BFRTB-3499	44164
		HEM	8	16	5/8	8	14	9/16	127	5	GT60-127BFRT-763	44374
13	FLAT FACE - RETRAC 	BAL	9	12.7	1/2	8	11	7/16	93	3-11/16	GT60-93BFRTB-3723	44070
		HEM	9	12.7	1/2	8	12.7	1/2	102	4	GT60-102BFRT-3724	44073
		HEM	9	14	9/16	8	12.7	1/2	102	4	GT60-102BFRT-3514	44010
		BAL	9	12.7	1/2	8	12.7	1/2	102	4	GT60-102BFRTB-3725	44074
		HEM	9	14	9/16	9	12.7	1/2	115	4-1/2	GT60-115BFRT-3726	44076
		HEM	9	14	9/16	9	14	9/16	127	5	GT60-127BFRT-3727	44078
		HEM	9	16	5/8	9	16	5/8	127	5	GT60-127BFRT-3426	44079

CARBIDE PROFILE DESIGNS

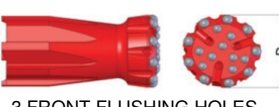
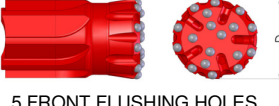
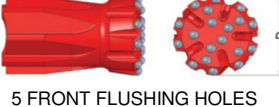
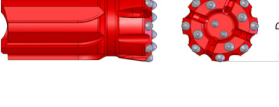
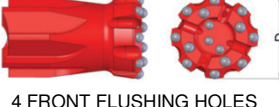


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THREADED BITS



GT60 2-3/8" (CONTINUED)

NO.	DESCRIPTION	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	FLAT FACE - XTRAC  3 FRONT FLUSHING HOLES	HEM	9	16	5/8	9	12.7	1/2	115	4-1/2	GT60-115BFRT-3821	44039		
		15	FLAT FACE - RETRAC, STARFLOW  5 FRONT FLUSHING HOLES	HEM	10	14	9/16	9	12.7	1/2	115	4-1/2	GT60-115BFRT-3425	44161
				HEM	10	16	5/8	7	16	5/8	127	5	GT60-127BFRT-3423	44163
				HEM	10	16	5/8	8	16	5/8	140	5-1/2	GT60-140BFRT-3635	44107
HEM	10			16	5/8	8	16	5/8	152	6	GT60-152BFRT-3552	44145		
16	FLAT FACE - XTRAC, STARFLOW  5 FRONT FLUSHING HOLES	HEM	10	14	9/16	9	12.7	1/2	115	4-1/2	GT60-115BFRT-3859	44011		
		HEM	10	16	5/8	7	16	5/8	127	5	GT60-127BFRT-3659	44114		
		HEM	10	16	5/8	9	16	5/8	140	5-1/2	GT60-140BFRT-3860	44015		
		17	DROP CENTER - RETRAC  4 FRONT FLUSHING HOLES	HEM	8	12.7	1/2	4	12.7	1/2	93	3-11/16	GT60-93BRTDC-999	44278
BAL	8			12.7	1/2	2	9.5	3/8	93	3-11/16	GT60-93BRTDCB-2719	44277		
						4	12.7	1/2						
HEM	8			12.7	1/2	2	9.5	3/8	95	3-3/4	GT60-95BRTDC-2720	44276		
						4	12.7	1/2						
BAL	8			12.7	1/2	2	9.5	3/8	95	3-3/4	GT60-95BRTDCB-2705	44275		
						4	12.7	1/2						
CON	8			12.7	1/2	2	9.5	3/8	95	3-3/4	GT60-95BRTDCC-3331	44202		
						4	12.7	1/2						
HEM	8			14	9/16	3	11	7/16	102	4	GT60-102BRTDC-647	44375		
						4	12.7	1/2						
BAL	8			14	9/16	3	11	7/16	102	4	GT60-102BRTDCB-749	44376		
		4	12.7			1/2								
HEM	8	14	9/16	3	12.7	1/2	115	4-1/2	GT60-115BRTDC-759	44377				
				4	14	9/16								
BAL	8	14	9/16	3	12.7	1/2	115	4-1/2	GT60-115BRTDCB-761	44337				
				4	14	9/16								
HEM	8	16	5/8	3	12.7	1/2	127	5	GT60-127BRTDC-765	44378				
				4	16	5/8								
HEM	8	16	5/8	4	16	5/8	140	5-1/2	GT60-140BRTDC-18	44379				
				4	14	9/16								
18	DROP CENTER - XTRAC  4 FRONT FLUSHING HOLES	CON	8	12.7	1/2	4	12.7	1/2	102	4	GT60-102BRTDCC-3597	44138		

CARBIDE PROFILE DESIGNS

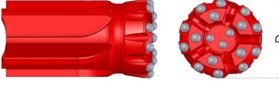


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THREADED BITS



GT60 2-3/8" (CONTINUED)

NO.	DROP CENTER - RETRAC, STARFLOW  5 FRONT FLUSHING HOLES	CARBIDE DIMENSIONS						DIAMETER		PART NUMBER		
		CARBIDE DESIGN	GAUGE NO. X DIA.			FRONT NO. X DIA.			D		USA	
			No.	mm	In.	No.	mm	In.	mm	In.		AUSTRIA
19		HEM	10	14	9/16	5 3	12.7 12.7	1/2 1/2	115	4-1/2	GT60-115BRTDC-3616	44111
		HEM	10	16	5/8	5 3	16 12.7	5/8 1/2	127	5	GT60-127BRTDC-3618	44112
		HEM	10	16	5/8	5 4	16 14	5/8 9/16	140	5-1/2	GT60-140BRTDC-3619	44113

CARBIDE PROFILE DESIGNS



Hemispherical



Hemispherical
MultiPoint



(Semi) Ballistic



(Semi) Ballistic
MultiPoint



CrownPoint



Conical

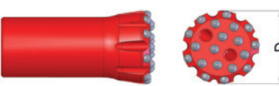
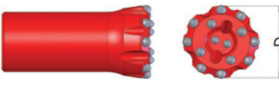
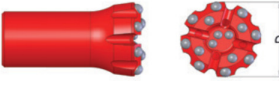
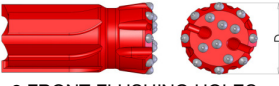

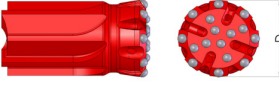
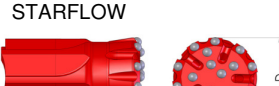



Full Ballistic

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THREADED BITS



T-Wiz60 2-3/8"												
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	 2 FRONT FLUSHING HOLES	BAL	9	12.7	1/2	10	12.7	1/2	102	4	TWIZ60-102BFB-3865	44027
2	 2 FRONT FLUSHING HOLES	BAL	8	14	9/16	4	12.7	1/2	102	4	TWIZ60-102BDCB-3952	44019
					2	11	7/16					
3	 4 FRONT FLUSHING HOLES	BAL	8	14	9/16	4	12.7	1/2	102	4	TWIZ60-102BDCB-3951	44018
					3	11	7/16					
4	 2 FRONT FLUSHING HOLES	BAL	8	12.7	1/2	6	12.7	1/2	95	3-3/4	TWIZ60-95BFRTB-3753	44061
5	 2 FRONT FLUSHING HOLES	BAL	9	12.7	1/2	10	12.7	1/2	102	4	TWIZ60-102BFRTB-3829	44038
6	 4 FRONT FLUSHING HOLES	HEM	8	16	5/8	8	14	9/16	127	5	TWIZ60-127BFRT-4007	41130
		BAL	8	16	5/8	8	14	9/16	127	5	TWIZ60-127BFRTB-4008	41131
7	 5 FRONT FLUSHING HOLES	HEM	10	16	5/8	8	16	5/8	140	5-1/2	TWIZ60-140BFRT-4009	41132
		BAL	10	16	5/8	8	16	5/8	140	5-1/2	TWIZ60-140BFRTB-4010	41133
8	 2 FRONT FLUSHING HOLES	BAL	8	14	9/16	4	12.7	1/2	102	4	TWIZ60-102BRTDCB-3953	44020
					2	11	7/16					

CARBIDE PROFILE DESIGNS

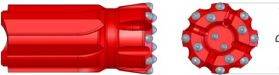


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THREADED BITS



T-Wiz60 2-3/8" (CONTINUED)

NO.	DROP CENTER - RETRAC  4 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.
9		BAL	8	12.7	1/2	4	12.7	1/2	95	3-3/4	TWIZ60-95BRTDCB-3912	44060
						2	9.5	3/8				

CARBIDE PROFILE DESIGNS



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REAMING ACCESSORIES



REAMING BITS & PILOT ADAPTERS

NO.	IMAGE	CARBIDE DIMENSIONS						DIAMETER		PART NUMBER		
		ANGLE	GAUGE NO. X DIA.		FRONT NO. X DIA.		D		USA	AUSTRIA		
			No.	mm	In.	No.	mm	In.			mm	In.
1												
		6°	8	9.5	3/8	4	8	5/16	64	2-1/2	RBB-64-6-487	43030
		6°	6	11	7/16	3	11	7/16	76	3	RBB-76-6-774	43031
		6°	8	12.7	1/2	4	11	7/16	89	3-1/2	RBB-89-6-489	43014
2												
		6°	4	6.3	1/4	1	6.3	1/4	26	1-1/32	PAR25-26B-2612	43070
		6°	4	6.3	1/4	1	6.3	1/4	26	1-1/32	PAR28-26B-2749	43071
		6°	4	6.3	1/4	1	6.3	1/4	26	1-1/32	PAR32-26B-2408	43072
3												
		12°	8	9.5	3/8	4	8	5/16	76	3	RBB-76-12-1771	43010
		12°	8	12.7	1/2	4	9.5	3/8	89	3-1/2	RBB-89-12-095	43011
		12°	8	12.7	1/2	4	12.7	1/2	102	4	RBB-102-12-096	43012
		12°	8	14	9/16	4	14	9/16	115	4-1/2	RBB-115-12-2453	43017
		12°	8	14	9/16	8	12.7	1/2	127	5	RBB-127-12-097	43013
4												
		12°	4	9.5	3/8	2	8	5/16	41	1-5/8	PAR32-41B-2099	43073
		12°	4	9.5	3/8	2	8	5/16	41	1-5/8	PAT38-41B-2759	43074
5												
		THREAD	No.	mm	In.	No.	mm	In.	mm	In.	USA	AUSTRIA
		T12	8	12.7	1/2	4	11	7/16	102	4	RBB-102-T12-490	43000
		T12	8	12.7	1/2	4	11	7/16	115	4-1/2	RBB-115-T12-491	43002
T12	8	12.7	1/2	4	11	7/16	127	5	RBB-127-T12-492	43001		
6												
		THREAD							DIAMETER		PART NUMBER	
		T12							D			
		T12							mm	In.	USA	AUSTRIA
		T12							47	1-7/8	PAR32-47-T12-498	43075
		T12							47	1-7/8	PAR38-47-T12-499	43076
T12							47	1-7/8	PAT38-47-T12-732	43078		
T12							47	1-7/8	PAT45-47-T12-231	43079		

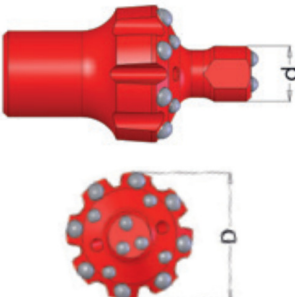
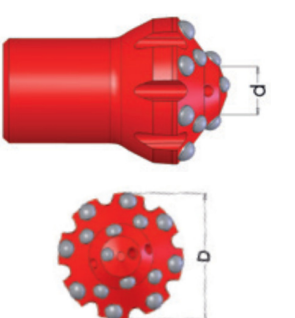
REAMING SHELLS

NO.	IMAGE	ANGLE (A)	D X B°		PART NUMBER	
			mm	In.	USA	AUSTRIA
			6°	22 x 12°	7/8 x 12°	RS2212-6
6°	22 x 11°	7/8 x 11°	RS2211-6	43036		

REAMING ACCESSORIES



HOLE OPENERS

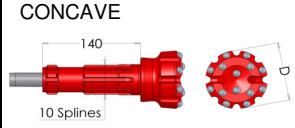
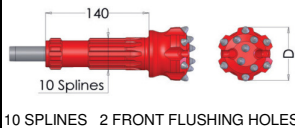
NO.	STANDARD TYPE	CARBIDE DIMENSIONS						DIAMETER				PART NUMBER		
		THD	GAUGE NO. X DIA.			FRONT NO. X DIA.			d		D		USA	AUSTRIA
			No.	mm	In.	No.	mm	In.	mm	In.	mm	In.		
1		R32	8	14	9/16	4	11	7/16	41	1-5/8	102	4	R32-41-102HO-925	43067
		T38	8	14	9/16	7	11	7/16	51	2	102	4	T38-51-102HO-889	43043
		T38	8	14	9/16	4	11	7/16						
		T38	8	14	9/16	2	9.5	3/8						
		T38	8	14	9/16	4	12.7	1/2	67	2-5/8	127	5	T38-67-127HO-278	43044
		T45	8	14	9/16	6	12.7	1/2						
		T45	8	14	9/16	4	12.7	1/2	64	2-1/2	127	5	T45-64-127HO-4086	43059
		T45	8	14	9/16	6	12.7	1/2						
		T45	8	14	9/16	4	12.7	1/2	73	2-7/8	127	5	T45-73-127HO-279	43045
		T38	8	16	5/8	6	14	9/16	102	4	152	6	T38-102-152HO-896	43046
		T38	8	16	5/8	6	14	9/16						
		T45	8	16	5/8	4	16	5/8						
ST58	8	16	5/8	2	12.7	1/2								
ST58	8	16	5/8	4	14	9/16	89	3-1/2	152	6	ST58-89-152HO-303	43047		
R38	10	16	5/8	6	14	9/16	76	3	178	7	R38-76-178HO-1346	43048		
T38	10	16	5/8	3	14	9/16								
T38	10	16	5/8	8	16	5/8	152	6	203	8	T38-152-203HO-119	43049		
T38	10	16	5/8	16	14	9/16								
ST58	12	14	9/16	20	14	9/16	127	5	225	8-7/8	ST58-127-225HO-3482	43061		
ST58	12	14	9/16	4	14	9/16								
2		R32	8	11	7/16	7	9.5	3/8	29	1-5/32	76	3	R32-29-76CO-1267	43040
		R32	8	12.7	1/2	6	11	7/16	29	1-5/32	89	3-1/2	R32-29-89CO-1277	43041
		R32	8	12.7	1/2	1	9.5	3/8						
		R32	8	12.7	1/2	6	12.7	1/2	29	1-5/32	102	4	R32-29-102CO-192	43042
		R32	8	12.7	1/2	1	9.5	3/8						
		R35	8	12.7	1/2	6	12.7	1/2	29	1-5/32	102	4	R35-29-102CO-891	43052
		R35	8	12.7	1/2	1	9.5	3/8						
		T38	8	12.7	1/2	6	12.7	1/2	29	1-5/32	102	4	T38-29-102CO-3679	43064
		T38	8	12.7	1/2	1	9.5	3/8						
		R32	8	14	9/16	10	12.7	1/2	29	1-5/32	115	4-1/2	R32-29-115CO-247	43050
		R32	8	14	9/16	1	11	7/16						
		T38	8	14	9/16	8	12.7	1/2	29	1-5/32	115	4-1/2	T38-29-115CO-3680	43065
T38	8	14	9/16	1	11	7/16								
R32	8	14	9/16	10	12.7	1/2	29	1-5/32	127	5	R32-29-127CO-270	43051		
R32	8	14	9/16	1	11	7/16								
T38	8	14	9/16	10	12.7	1/2	29	1-5/32	127	5	T38-29-127CO-039	43066		
T38	8	14	9/16	1	11	7/16								

NOTE: ADDITIONAL THREADS AND SIZES AVAILABLE UPON REQUEST.

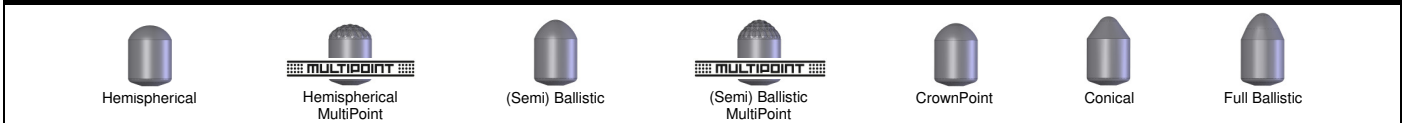
DOWN-THE-HOLE (DTH) BITS ROCKMORE



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
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.		
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
NO.	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				
		BT40-1022					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
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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

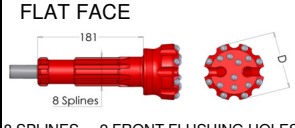
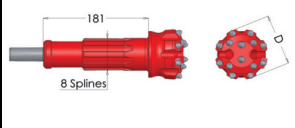
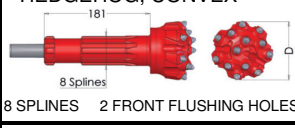


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 * = No shank breakage warranty

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



SHANK: IR 3.5

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	8 SPLINES 2 FRONT FLUSHING HOLES	HEM	8	12.7	1/2	8	11	7/16	105	4-1/8	IR35-105FF-2590	45196		
2	CONVEX 	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 	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



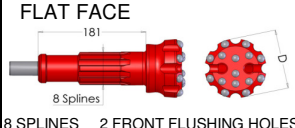
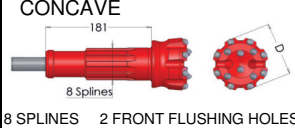
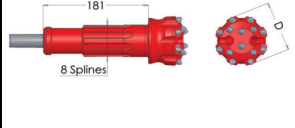
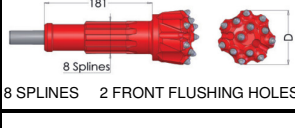
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DOWN-THE-HOLE (DTH) BITS INGERSOLL-RAND



SHANK: IR 3.5HD

NO.	FLAT FACE  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.		
5		HEM	8	14	9/16	7	12.7	1/2	105	4-1/8	IR35HD-105FF-2832	45335
6	CONCAVE  8 Splines 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 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 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	<p>8 SPLINES 2 FRONT FLUSHING HOLES</p>	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	<p>8 SPLINES 2 FRONT FLUSHING HOLES</p>	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	<p>8 SPLINES 2 FRONT FLUSHING HOLES ** 3 FRONT FLUSHING HOLES</p>	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
		BAL	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	<p>8 SPLINES 2 FRONT FLUSHING HOLES</p>	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



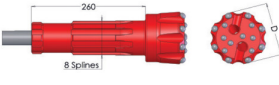
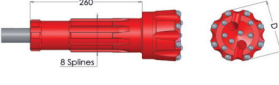
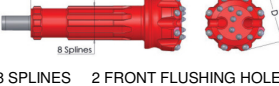
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* = No shank breakage warranty

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		
		HEM	8	16	5/8	8	16	5/8	152 *	6	350R-152FF-2202	45344		
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		
		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
18	350R BLOW TUBE									PART NUMBER				
										USA	AUSTRIA			
								BT350R-1004	45101					

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
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* = 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
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

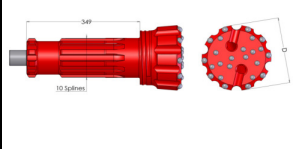
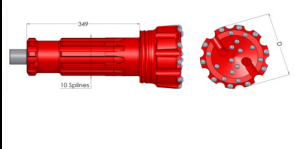


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 Note: Some button bits may not be offered with a particular carbide design shown above.
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DOWN-THE-HOLE (DTH) BITS INGERSOLL-RAND



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	 10 SPLINES 2 FRONT FLUSHING HOLES	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
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.		
24	 10 SPLINES 2 FRONT FLUSHING HOLES	HEM	10	19	3/4	14	16	5/8	190	7-1/2	380-190CC-2623	45432
		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
NO.	380 BLOW TUBE									PART NUMBER		
										USA	AUSTRIA	
										BT380-1006	45115	

CARBIDE PROFILE DESIGNS



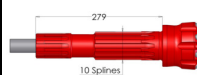
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 Note: Some button bits may not be offered with a particular carbide design shown above.

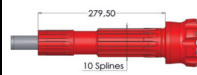
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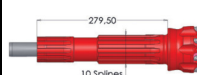
DOWN-THE-HOLE (DTH) BITS INGERSOLL-RAND - QL SERIES



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

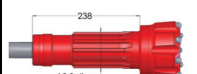
NO.	CONCAVE	CARBIDE DIMENSIONS						DIAMETER		PART NUMBER		
		CARBIDE DESIGN	GAUGE NO. X DIA.			FRONT NO. X DIA.			D		USA	AUSTRIA
			No.	mm	In.	No.	mm	In.	mm	In.		
2	 10 SPLINES 2 FRONT FLUSHING HOLES	HEM	8	12.7	1/2	8	11	7/16	105	4-1/8	QL4-105CC-1618	45230
		HEM	8	12.7	1/2	8	11	7/16	110	4-5/16	QL4-110CC-1619	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

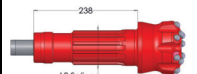
NO.	CONVEX	CARBIDE DIMENSIONS						DIAMETER		PART NUMBER		
		CARBIDE DESIGN	GAUGE NO. X DIA.			FRONT NO. X DIA.			D		USA	AUSTRIA
			No.	mm	In.	No.	mm	In.	mm	In.		
3	 10 SPLINES 2 FRONT FLUSHING HOLES ** 3 FRONT FLUSHING HOLES	HEM	8	14	9/16	8	12.7	1/2	105	4-1/8	QL4-105CV-3774	45120
		BAL	8	12.7	1/2	8	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		BTTD40-1022	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

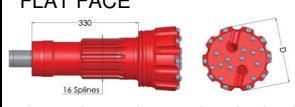
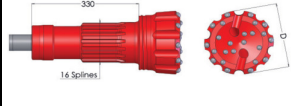


HEM = Hemispherical Carbide; BAL = (Semi) Ballistic Carbide; CP = CrownPoint carbide; CON = Conical carbide; FB = Full Ballistic Carbide; MP = MultiPoint carbide, on request
 Note: Some button bits may not be offered with a particular carbide design shown above.
 * = No shank breakage warranty

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

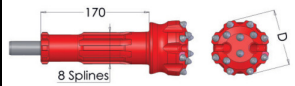


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 Note: Some button bits may not be offered with a particular carbide design shown above.
 * = No shank breakage warranty

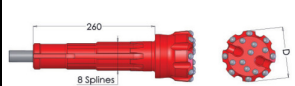
DOWN-THE-HOLE (DTH) BITS SANDVIK - MISSION



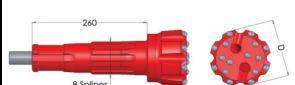
SHANK: 3015

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
NO. 2	3015 BLOW TUBE									PART NUMBER		
										USA	AUSTRIA	
										BT3015-1007	45114	

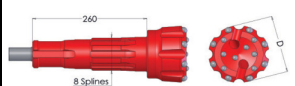
SHANK: 3415, SD4

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
NO. 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
		HEM	8	16	5/8	8	16	5/8	152*	6	4315-152FF-2204	45347
NO. 8	4315 BLOW TUBE									PART NUMBER		
										USA	AUSTRIA	
										BT4315-1009	45091	

SHANK: 4315, SD5

NO.	CONCAVE  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.		
7		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	8	16	5/8	152*	6	4315-152CC-736	41255
		HEM	8	16	5/8	9	16	5/8	152*	6	4315-152CC-736	41255

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	<p>8 SPLINES 2 FRONT FLUSHING HOLES</p>	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	<p>8 SPLINES 2 FRONT FLUSHING HOLES</p>	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	<p>8 SPLINES 2 FRONT FLUSHING HOLES</p>	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	<p>8 SPLINES 2 FRONT FLUSHING HOLES</p>	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

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