



2023 BIT SELECTION HANDBOOK



For all your rock drilling tool needs contact
ROCKMORE INTERNATIONAL



USA

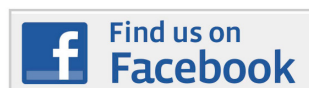
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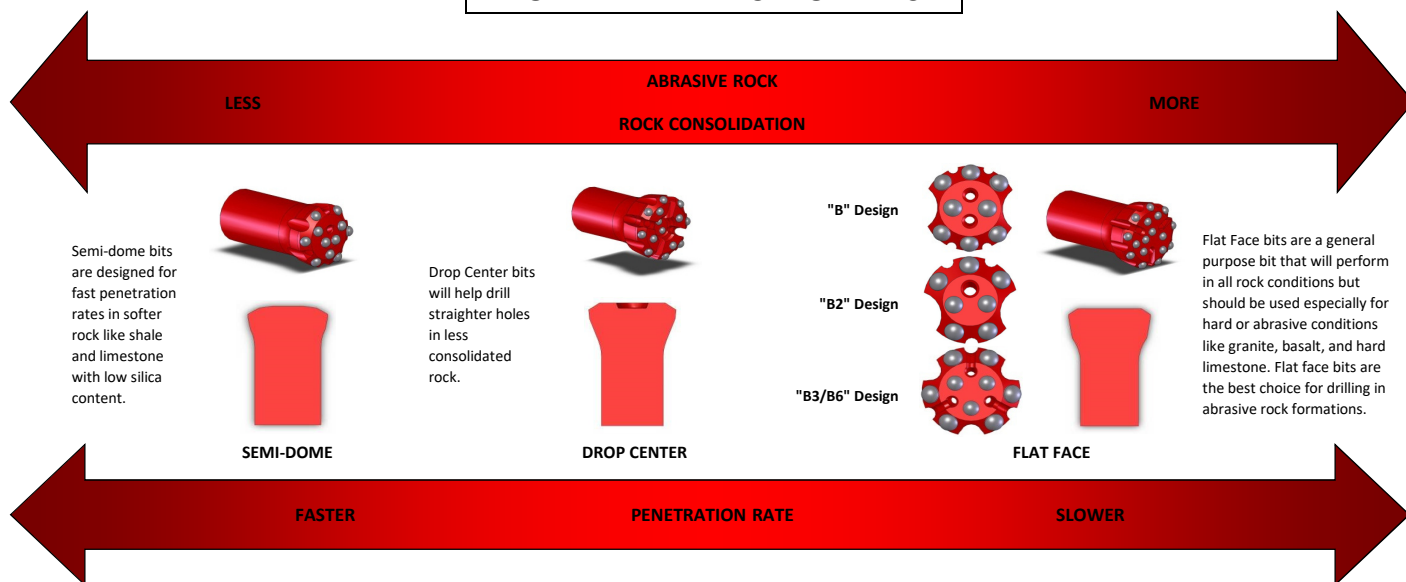
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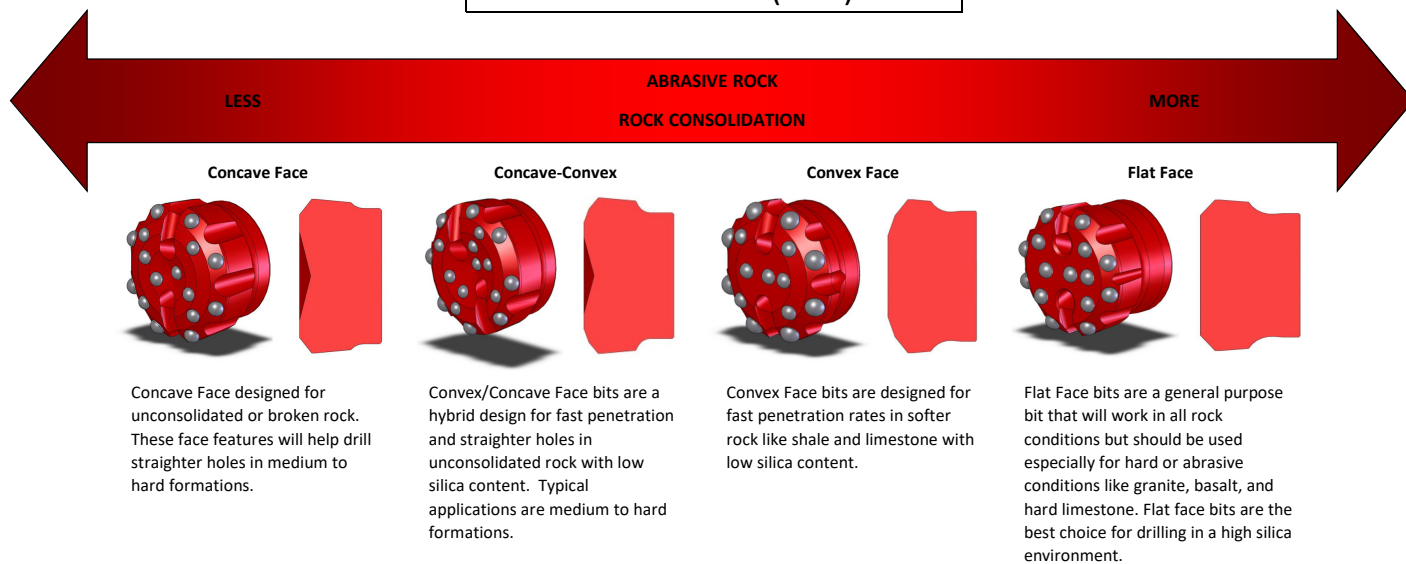


BIT FACE SELECTION

TOP-HAMMER BUTTON BITS



DOWN-THE-HOLE (DTH) BITS



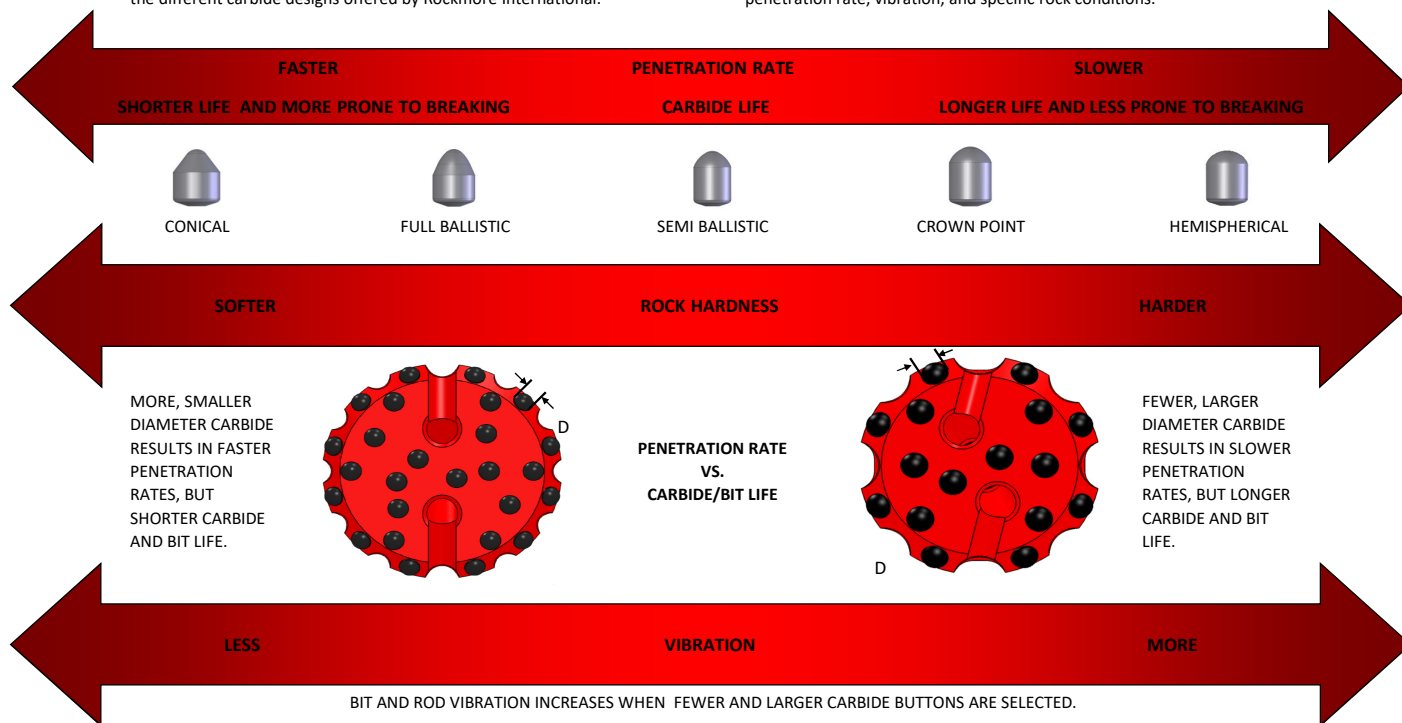
CARBIDE SELECTION

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.

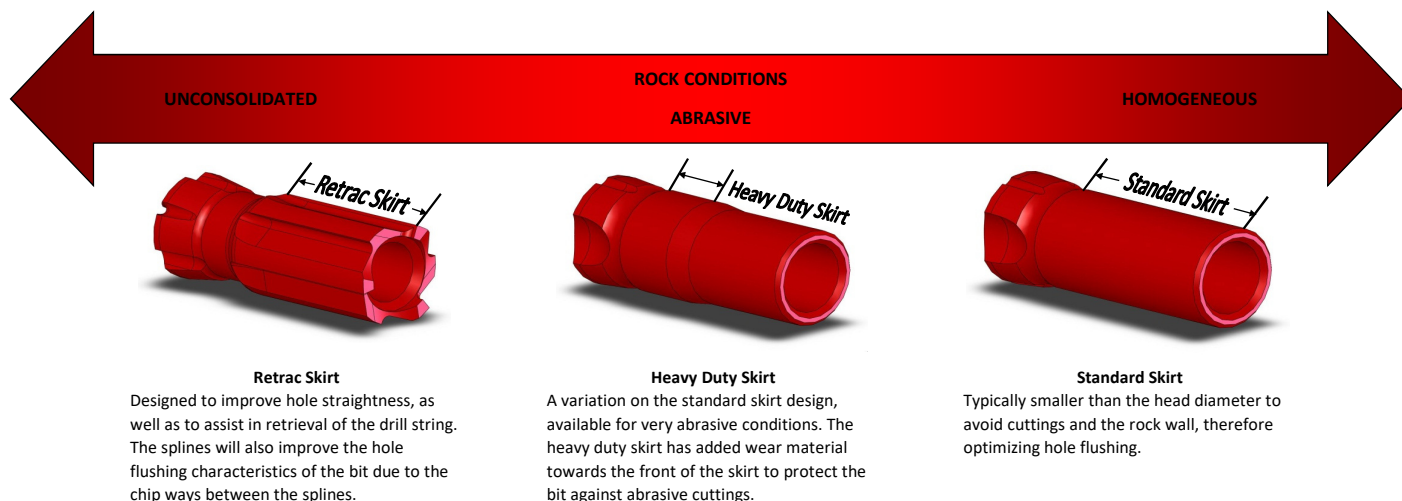


MULTIPOINT

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



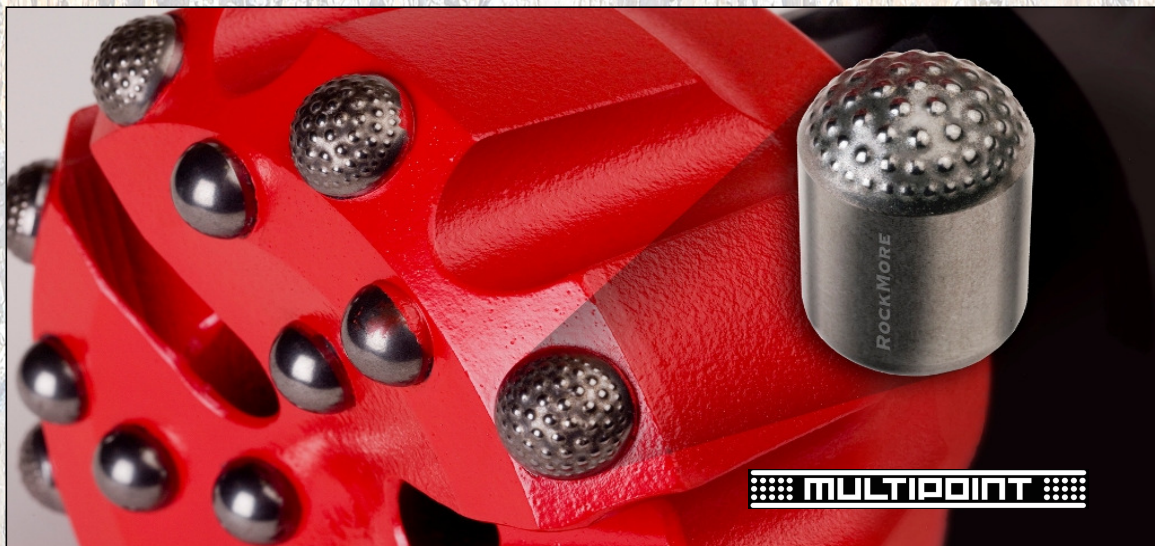


ROCKMORE
INTERNATIONAL
Rock Drilling Tools



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



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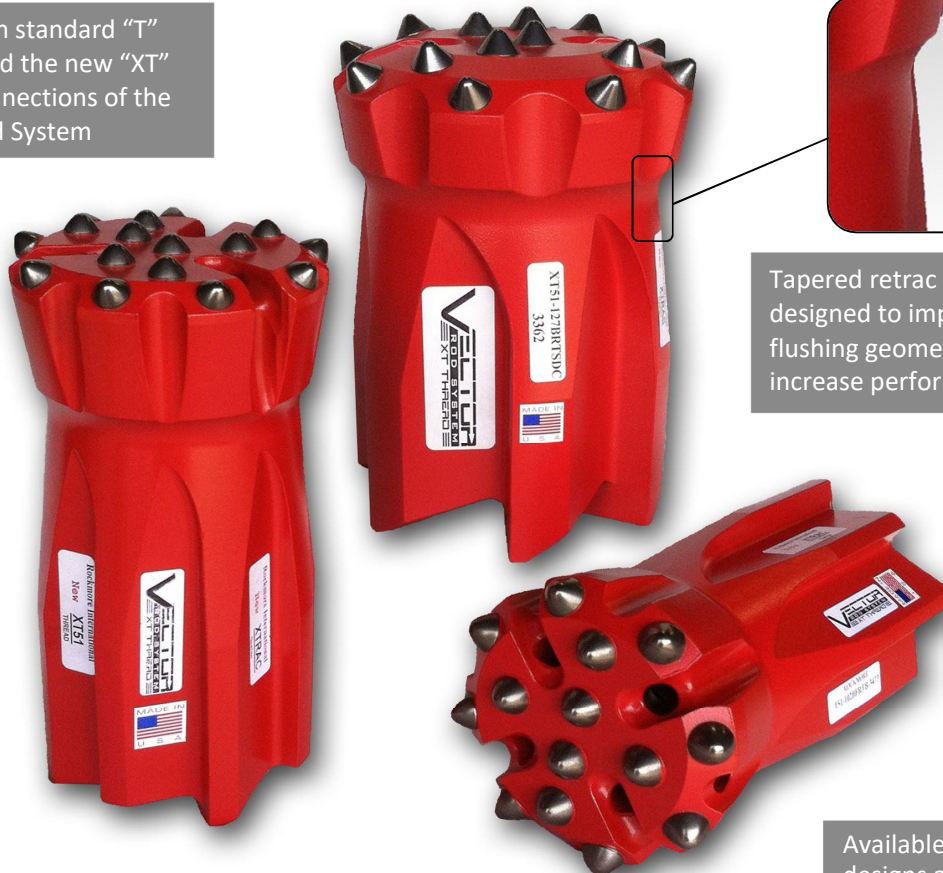


NEW **Xtrac** BIT DESIGN

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



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

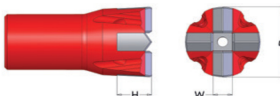
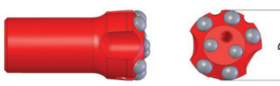


MULTIPOINT

TAPERED BITS



22 mm X 4°46' (7/8" X 4°46')

NO.	CROSS MULTI - USE	CARBIDE DIMENSIONS				DIAMETER		PART NUMBER				
		W		H		D						
		mm	In.	mm	In.	mm	In.	USA	AUSTRIA			
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			
NO.	B2 DESIGN	CARBIDE DIMENSIONS						DIAMETER		PART NUMBER		
		CARBIDE DESIGN	GAUGE NO. X DIA.			FRONT NO. X DIA.			D			
2		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
		BAL	5	8	5/16	2	7	9/32	36	1-13/32	T22-36B24B-1673	41091
		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

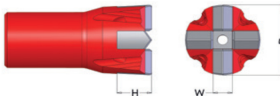
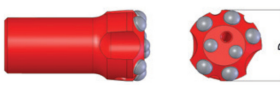


HEM = Hemispherical Carbide; BAL = (Semi) Ballistic Carbide; CP = CrownPoint carbide; CON = Conical carbide; FB = Full Ballistic Carbide; MP = MultiPoint carbide, on request
 Note: Some button bits may not be offered with a particular carbide design shown above.

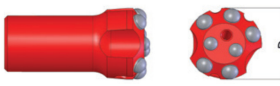
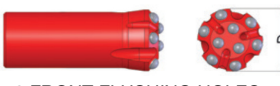
TAPERED BITS



22 mm X 7° (7/8" X 7°)

NO.	CROSS MULTI - USE	CARBIDE DIMENSIONS				DIAMETER		PART NUMBER				
		W		H		D						
		mm	In.	mm	In.	mm	In.	USA	AUSTRIA			
1	 1 FRONT FLUSHING HOLE	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	CARBIDE DIMENSIONS						DIAMETER		PART NUMBER		
		CARBIDE DESIGN	GAUGE NO. X DIA.		FRONT NO. X DIA.		D					
			No.	mm	In.	No.	mm	In.	mm	In.	USA	AUSTRIA
2	 1 FRONT FLUSHING HOLE	BAL	5	7	9/32	2	7	9/32	30	1-3/16	T22-30B27B-4231	11020
		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		CARBIDE DIMENSIONS						DIAMETER		PART NUMBER		
			CARBIDE DESIGN	GAUGE NO. X DIA.			FRONT NO. X DIA.			D			
				No.	mm	In.	No.	mm	In.	mm	In.	USA	AUSTRIA
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		CARBIDE DIMENSIONS						DIAMETER		PART NUMBER		
			CARBIDE DESIGN	GAUGE NO. X DIA.			FRONT NO. X DIA.			D			
				No.	mm	In.	No.	mm	In.	mm	In.	USA	AUSTRIA
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

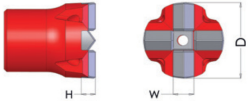
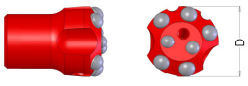
					
Hemispherical	Hemispherical MultiPoint	(Semi) Ballistic	(Semi) Ballistic MultiPoint	CrownPoint	Conical

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 11° (7/8" X 11°)

NO.	CROSS SINGLE - USE	CARBIDE DIMENSIONS				DIAMETER		PART NUMBER				
		W		H		D						
		mm	In.	mm	In.	mm	In.	USA	AUSTRIA			
1		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			
			No.	mm	In.	No.	mm	In.	mm	In.	USA	AUSTRIA
2		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

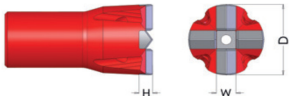
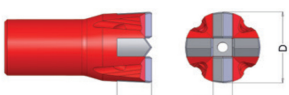
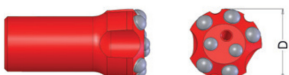


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TAPERED BITS



22 mm X 12° (7/8" X 12°)

NO.	CROSS SINGLE - USE	CARBIDE DIMENSIONS				DIAMETER		PART NUMBER				
		W		H		D		PART NUMBER				
		mm	In.	mm	In.	mm	In.	USA	AUSTRIA			
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			
NO.	CROSS MULTI - USE	CARBIDE DIMENSIONS				DIAMETER		PART NUMBER				
		W		H		D		PART NUMBER				
		mm	In.	mm	In.	mm	In.	USA	AUSTRIA			
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			
NO.	B2 DESIGN	CARBIDE DIMENSIONS						DIAMETER		PART NUMBER		
		CARBIDE DESIGN	GAUGE NO. X DIA.			FRONT NO. X DIA.			D		PART NUMBER	
			No.	mm	In.	No.	mm	In.	mm	In.	USA	AUSTRIA
3	 1 FRONT FLUSHING HOLE	BAL	4	7	9/32	1	7	9/32	28	1-1/8	T22-28B212B-4271	11024
		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	T22-32B212-1848	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

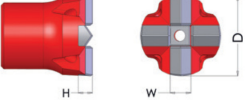
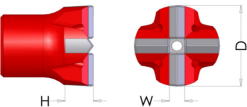
					
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 Note: Some button bits may not be offered with a particular carbide design shown above.

THREADED BITS



"H" THREAD

NO.	CROSS SINGLE - USE	CARBIDE DIMENSIONS				DIAMETER		PART NUMBER	
		W		H		D			
		mm	In.	mm	In.	mm	In.	USA	AUSTRIA
1	 1 FRONT FLUSHING HOLE	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
NO.	CROSS MULTI - USE	CARBIDE DIMENSIONS				DIAMETER		PART NUMBER	
		W		H		D			
		mm	In.	mm	In.	mm	In.	USA	AUSTRIA
2	 1 FRONT FLUSHING HOLE	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

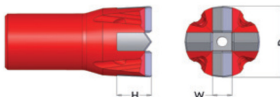
					
Hemispherical	Hemispherical MultiPoint	(Semi) Ballistic	(Semi) Ballistic MultiPoint	CrownPoint	Conical

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 design shown above.

THREADED BITS



R22 7/8" ROPE THREAD

NO.	CROSS MULTI - USE	CARBIDE DIMENSIONS				DIAMETER		PART NUMBER				
		W		H		D		PART NUMBER				
		mm	In.	mm	In.	mm	In.	USA	AUSTRIA			
1	 1 FRONT FLUSHING HOLE	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	CARBIDE DIMENSIONS						DIAMETER		PART NUMBER		
		CARBIDE DESIGN	GAUGE NO. X DIA.			FRONT NO. X DIA.			D		PART NUMBER	
			No.	mm	In.	No.	mm	In.	mm	In.	USA	AUSTRIA
2	 1 FRONT FLUSHING HOLE	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

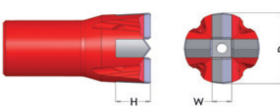
					
Hemispherical	Hemispherical MultiPoint	(Semi) Ballistic	(Semi) Ballistic MultiPoint	CrownPoint	Conical

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



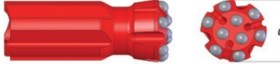
R25 1" ROPE THREAD

NO.	CROSS MULTI - USE	CARBIDE DIMENSIONS				DIAMETER			
		W		H		D		PART NUMBER	
		mm	In.	mm	In.	mm	In.	USA	AUSTRIA
1		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				
		CARBIDE	GAUGE NO. X DIA.			FRONT NO. X DIA.			D		PART NUMBER	
		DESIGN	No.	mm	In.	No.	mm	In.	mm	In.	USA	AUSTRIA
2		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				
		CARBIDE DESIGN	GAUGE NO. X DIA.			FRONT NO. X DIA.			D		PART NUMBER	
			No.	mm	In.	No.	mm	In.	mm	In.	USA	AUSTRIA
3		BAL	6	7	9/32	3	7	9/32	35	1-3/8	R25-35B3B-4182	16078
		HEM	6	9	11/32	3	7	9/32	43	1-11/16	R25-43B3-4063	16079
		CP / HEM	6	9	11/32	3	7	9/32	43	1-11/16	R25-43B3CP-4064	16080
		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				
		CARBIDE	GAUGE NO. X DIA.			FRONT NO. X DIA.			D		PART NUMBER	
		DESIGN	No.	mm	In.	No.	mm	In.	mm	In.	USA	AUSTRIA
4		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
	1 FRONT FLUSHING HOLE											

NO.	FLAT FACE - RETRAC	CARBIDE DIMENSIONS						DIAMETER				
		CARBIDE DESIGN	GAUGE NO. X DIA.			FRONT NO. X DIA.			D		PART NUMBER	
			No.	mm	In.	No.	mm	In.	mm	In.	USA	AUSTRIA
5		HEM	6	9	11/32	3	9	11/32	48	1-7/8	R25-48BFRT-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	R25-57BFRT-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

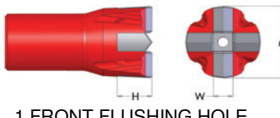
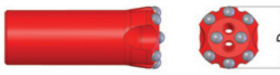
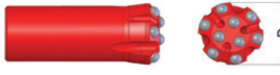


HEM = Hemispherical Carbide; BAL = (Semi) Ballistic Carbide; CP = CrownPoint carbide; CON = Conical carbide; FB = Full Ballistic Carbide; MP = MultiPoint carbide, on request
 Note: Some button bits may not be offered with a particular carbide design shown above.

THREADED BITS



R28 1-1/8" ROPE THREAD

NO.	CROSS MULTI - USE  1 FRONT FLUSHING HOLE	CARBIDE DIMENSIONS				DIAMETER		PART NUMBER				
		W		H		D						
		mm	In.	mm	In.	mm	In.	USA	AUSTRIA			
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			
			No.	mm	In.	No.	mm	In.	mm	In.	USA	AUSTRIA
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			
			No.	mm	In.	No.	mm	In.	mm	In.	USA	AUSTRIA
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			
			No.	mm	In.	No.	mm	In.	mm	In.	USA	AUSTRIA
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

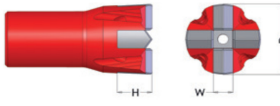
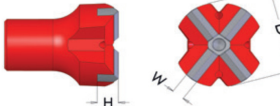
					
Hemispherical	Hemispherical MultiPoint	(Semi) Ballistic	(Semi) Ballistic MultiPoint	CrownPoint	Conical

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

NO.	CROSS MULTI - USE	CARBIDE DIMENSIONS				DIAMETER		PART NUMBER				
		W		H		D		PART NUMBER				
		mm	In.	mm	In.	mm	In.	USA	AUSTRIA			
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		PART NUMBER				
		mm	In.	mm	In.	mm	In.	USA	AUSTRIA			
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	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		PART NUMBER	
			No.	mm	In.	No.	mm	In.	mm	In.	USA	AUSTRIA
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		PART NUMBER	
			No.	mm	In.	No.	mm	In.	mm	In.	USA	AUSTRIA
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

CARBIDE PROFILE DESIGNS

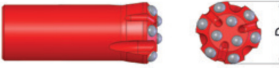
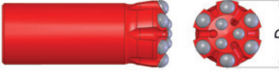
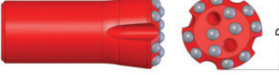
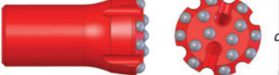
					
Hemispherical	Hemispherical MultiPoint	(Semi) Ballistic	(Semi) Ballistic MultiPoint	CrownPoint	Conical

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	
		GAUGE NO. X DIA.			FRONT NO. X DIA.			D	In.	mm	USA	AUSTRIA
		CARBIDE DESIGN	No.	mm	In.	No.	mm					
5		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		CARBIDE DIMENSIONS							DIAMETER		PART NUMBER	
		CARBIDE DESIGN	No.	mm	In.	No.	mm	In.	mm	In.	USA	AUSTRIA
		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		CARBIDE DIMENSIONS							DIAMETER		PART NUMBER	
		CARBIDE DESIGN	No.	mm	In.	No.	mm	In.	mm	In.	USA	AUSTRIA
		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		CARBIDE DIMENSIONS							DIAMETER		PART NUMBER	
		CARBIDE DESIGN	No.	mm	In.	No.	mm	In.	mm	In.	USA	AUSTRIA
		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		CARBIDE DIMENSIONS							DIAMETER		PART NUMBER	
		CARBIDE DESIGN	No.	mm	In.	No.	mm	In.	mm	In.	USA	AUSTRIA
		HEM	6	10	13/32	3	10	13/32	64	2-1/2	R32-64BDC-1456	44573
		BAL	6	10	13/32	3	10	13/32	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	3	11	7/16	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	3	12.7	1/2	89	3-1/2	R32-89BDCB-1362	44580
		HEM	6	14	9/16	3	12.7	1/2	89	3-1/2	R32-89BDCB-1362	44580
		BAL	6	14	9/16	3	12.7	1/2	89	3-1/2	R32-89BDCB-1362	44580

CARBIDE PROFILE DESIGNS

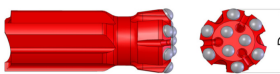
					
Hemispherical	Hemispherical MultiPoint	(Semi) Ballistic	(Semi) Ballistic MultiPoint	CrownPoint	Conical

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.

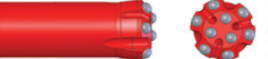
THREADED BITS



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		PART NUMBER	
			No.	mm	In.	No.	mm	In.	mm	In.	USA	AUSTRIA
10	 3 FRONT FLUSHING HOLES	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
NO.	FLAT FACE - RETRAC	CARBIDE DIMENSIONS						DIAMETER		PART NUMBER		
		CARBIDE DESIGN	GAUGE NO. X DIA.			FRONT NO. X DIA.			D		PART NUMBER	
			No.	mm	In.	No.	mm	In.	mm	In.	USA	AUSTRIA
		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
NO.	FLAT FACE - RETRAC	CARBIDE DIMENSIONS						DIAMETER		PART NUMBER		
		CARBIDE DESIGN	GAUGE NO. X DIA.			FRONT NO. X DIA.			D		PART NUMBER	
			No.	mm	In.	No.	mm	In.	mm	In.	USA	AUSTRIA
		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
NO.	DROP CENTER - RETRAC	CARBIDE DIMENSIONS						DIAMETER		PART NUMBER		
		CARBIDE DESIGN	GAUGE NO. X DIA.			FRONT NO. X DIA.			D		PART NUMBER	
			No.	mm	In.	No.	mm	In.	mm	In.	USA	AUSTRIA
		HEM	6	10	13/32	3	10	13/32	64	2-1/2	R32-64BRTDC-2636	44874
		BAL	6	10	13/32	3	10	13/32	64	2-1/2	R32-64BRTDCB-2637	44875
NO.	DROP CENTER - RETRAC	CARBIDE DIMENSIONS						DIAMETER		PART NUMBER		
		CARBIDE DESIGN	GAUGE NO. X DIA.			FRONT NO. X DIA.			D		PART NUMBER	
			No.	mm	In.	No.	mm	In.	mm	In.	USA	AUSTRIA
		HEM	8	11	7/16	4	11	7/16	89	3-1/2	R32-89BRTDC-3895	41192
		CON	8	11	7/16	4	11	7/16	89	3-1/2	R32-89BRTDCC-3000	41185

XR32 1-1/4" ROPE THREAD (ROCKMORE XR32 THREAD SYSTEM)

NO.	B3 DESIGN  3 FRONT FLUSHING HOLES	CARBIDE DIMENSIONS						DIAMETER		PART NUMBER		
		CARBIDE DESIGN	GAUGE NO. X DIA.			FRONT NO. X DIA.			D		PART NUMBER	
			No.	mm	In.	No.	mm	In.	mm	In.	USA	AUSTRIA
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
NO.	B6 DESIGN  3 FRONT FLUSHING HOLES	CARBIDE DIMENSIONS						DIAMETER		PART NUMBER		
		CARBIDE DESIGN	GAUGE NO. X DIA.			FRONT NO. X DIA.			D		PART NUMBER	
			No.	mm	In.	No.	mm	In.	mm	In.	USA	AUSTRIA
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

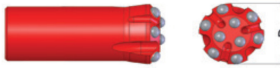
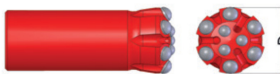
					
Hemispherical	Hemispherical MultiPoint	(Semi) Ballistic	(Semi) Ballistic MultiPoint	CrownPoint	Conical

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



R35 1-3/8" ROPE THREAD

NO.	B2 DESIGN  1 FRONT FLUSHING HOLE	CARBIDE DIMENSIONS						DIAMETER		PART NUMBER		
		CARBIDE DESIGN	GAUGE NO. X DIA.			FRONT NO. X DIA.			D		PART NUMBER	
			No.	mm	In.	No.	mm	In.	mm	In.	USA	AUSTRIA
1		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
NO.	B3 DESIGN  3 FRONT FLUSHING HOLES	CARBIDE DIMENSIONS						DIAMETER		PART NUMBER		
		CARBIDE DESIGN	GAUGE NO. X DIA.			FRONT NO. X DIA.			D		PART NUMBER	
			No.	mm	In.	No.	mm	In.	mm	In.	USA	AUSTRIA
2		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
NO.	B6 DESIGN  3 FRONT FLUSHING HOLES	CARBIDE DIMENSIONS						DIAMETER		PART NUMBER		
		CARBIDE DESIGN	GAUGE NO. X DIA.			FRONT NO. X DIA.			D		PART NUMBER	
			No.	mm	In.	No.	mm	In.	mm	In.	USA	AUSTRIA
3		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

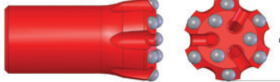
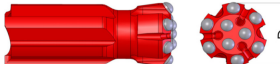
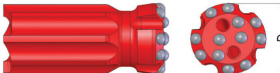
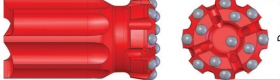
					
Hemispherical	Hemispherical MultiPoint	(Semi) Ballistic	(Semi) Ballistic MultiPoint	CrownPoint	Conical

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

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		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	
3 FRONT FLUSHING HOLES													
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.			
2		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	
3 FRONT FLUSHING HOLES													
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.			
3		BAL	8	10	13/32	4	10	13/32	64	2-1/2	T35-64BFRTB-4314	16011	
2 FRONT FLUSHING HOLES													
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.			
4		BAL	8	11	7/16	4	10	13/32	76	3	T35-76BRTDCB-4315	16013	
						1	10	13/32					
4 FRONT FLUSHING HOLES													
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.			
5		HEM	6	10	13/32	3	9	11/32	60	2-3/8	T35-60BRTDC-4273	16081	
						1	9	11/32					
3 FRONT FLUSHING HOLES													

CARBIDE PROFILE DESIGNS

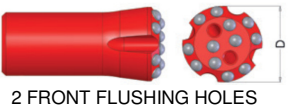
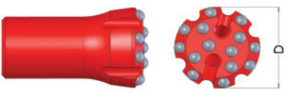
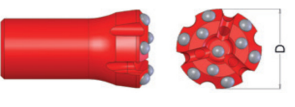
					
Hemispherical	MultiPoint	(Semi) Ballistic	(Semi) Ballistic MultiPoint	CrownPoint	Conical

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	CARBIDE DIMENSIONS				DIAMETER		PART NUMBER	
		W		H		D		USA	AUSTRIA
		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
2	FLAT FACE 	CARBIDE DIMENSIONS				DIAMETER		PART NUMBER	
		CARBIDE DESIGN	GAUGE NO. X DIA.		FRONT NO. X DIA.		D		
			No.	mm	In.	No.	mm	In.	
		HEM	8	10	13/32	4	10	13/32	64 2-1/2 R38-64BF-747 44687
3	FLAT FACE 	BAL	8	10	13/32	4	10	13/32	64 2-1/2 R38-64BFB-1552 44876
		CARBIDE DIMENSIONS				DIAMETER		PART NUMBER	
		CARBIDE DESIGN	GAUGE NO. X DIA.		FRONT NO. X DIA.		D		
			No.	mm	In.	No.	mm	In.	
		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
4	DROP CENTER 	CARBIDE DIMENSIONS				DIAMETER		PART NUMBER	
		CARBIDE DESIGN	GAUGE NO. X DIA.		FRONT NO. X DIA.		D		
			No.	mm	In.	No.	mm	In.	
		HEM	6	10	13/32	3	10	13/32	64 2-1/2 R38-64BDC-1557 44880
		BAL	6	10	13/32	3	10	13/32	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	3	11	7/16	70 2-3/4 R38-70BDCB-933 44576
		HEM	6	12.7	1/2	3	12.7	1/2	76 3 R38-76BDC-429 44559
		BAL	6	12.7	1/2	3	12.7	1/2	76 3 R38-76BDCB-776 44560
		HEM	6	14	9/16	3	14	9/16	89 3-1/2 R38-89BDC-905 44561
		BAL	6	14	9/16	3	14	9/16	89 3-1/2 R38-89BDCB-872 44562

CARBIDE PROFILE DESIGNS

					
Hemispherical	Hemispherical MultiPoint	(Semi) Ballistic	(Semi) Ballistic MultiPoint	CrownPoint	Conical

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.

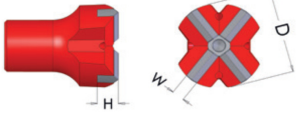
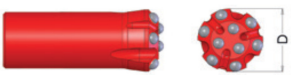
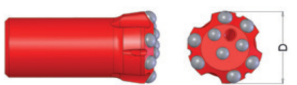
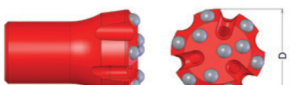
THREADED BITS



T38 1-1/2"

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



NO.	X MULTI - USE	CARBIDE DIMENSIONS						DIAMETER		PART NUMBER			
		W			H			D		PART NUMBER			
		mm	In.	mm	In.	mm	In.	USA		AUSTRIA			
		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	CARBIDE DIMENSIONS						DIAMETER		PART NUMBER			
		CARBIDE DESIGN	GAUGE NO. X DIA.			FRONT NO. X DIA.			D		PART NUMBER		
			No.	mm	In.	No.	mm	In.	mm	In.	USA	AUSTRIA	
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	CARBIDE DIMENSIONS						DIAMETER		PART NUMBER			
		CARBIDE DESIGN	GAUGE NO. X DIA.			FRONT NO. X DIA.			D		PART NUMBER		
			No.	mm	In.	No.	mm	In.	mm	In.	USA	AUSTRIA	
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	T38-64BFCP-2542		41134
		BAL	6	12.7	1/2	3	12.7	1/2	64	2-1/2	T38-64BFB-1413		44835
NO.	FLAT FACE	CARBIDE DIMENSIONS						DIAMETER		PART NUMBER			
		CARBIDE DESIGN	GAUGE NO. X DIA.			FRONT NO. X DIA.			D		PART NUMBER		
			No.	mm	In.	No.	mm	In.	mm	In.	USA	AUSTRIA	
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	CARBIDE DIMENSIONS						DIAMETER		PART NUMBER			
		CARBIDE DESIGN	GAUGE NO. X DIA.			FRONT NO. X DIA.			D		PART NUMBER		
			No.	mm	In.	No.	mm	In.	mm	In.	USA	AUSTRIA	
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	CARBIDE DIMENSIONS						DIAMETER		PART NUMBER			
		CARBIDE DESIGN	GAUGE NO. X DIA.			FRONT NO. X DIA.			D		PART NUMBER		
			No.	mm	In.	No.	mm	In.	mm	In.	USA	AUSTRIA	
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	CARBIDE DIMENSIONS						DIAMETER		PART NUMBER			
		CARBIDE DESIGN	GAUGE NO. X DIA.			FRONT NO. X DIA.			D		PART NUMBER		
			No.	mm	In.	No.	mm	In.	mm	In.	USA	AUSTRIA	
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.

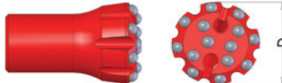
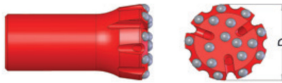
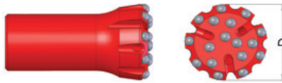
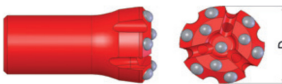
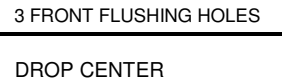
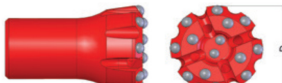
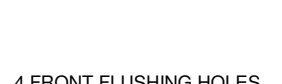
THREADED BITS



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			
				No.	mm	In.	No.	mm	In.	mm	In.	USA	AUSTRIA
8	2 FRONT FLUSHING HOLES		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
NO.	FLAT FACE		CARBIDE DIMENSIONS						DIAMETER		PART NUMBER		
			CARBIDE DESIGN	GAUGE NO. X DIA.			FRONT NO. X DIA.			D			
				No.	mm	In.	No.	mm	In.	mm	In.	USA	AUSTRIA
9	3 FRONT FLUSHING HOLES		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
NO.	DROP CENTER		CARBIDE DIMENSIONS						DIAMETER		PART NUMBER		
			CARBIDE DESIGN	GAUGE NO. X DIA.			FRONT NO. X DIA.			D			
				No.	mm	In.	No.	mm	In.	mm	In.	USA	AUSTRIA
10	3 FRONT FLUSHING HOLES		HEM	6	10	13/32	3	10	13/32	64	2-1/2	T38-64BDC-1454	44518
							1	9	11/32				
			BAL	6	10	13/32	3	10	13/32	64	2-1/2	T38-64BDCB-1455	44519
							1	9	11/32				
			HEM	6	11	7/16	3	11	7/16	70	2-3/4	T38-70BDC-025	44520
							1	9.5	3/8				
			BAL	6	11	7/16	3	11	7/16	70	2-3/4	T38-70BDCB-656	44521
							1	9.5	3/8				
			HEM	6	12.7	1/2	3	11	7/16	76	3	T38-76BDC-028	44714
							1	9.5	3/8				
			CP	6	12.7	1/2	3	11	7/16	76	3	T38-76BDCCP-2420	44722
							1	9.5	3/8				
BAL	6	12.7	1/2	3	11	7/16	76	3	T38-76BDCB-1462	44859			
				1	9.5	3/8							
HEM	6	14	9/16	3	12.7	1/2	89	3-1/2	T38-89BDC-799	44522			
				2	9.5	3/8							
BAL	6	14	9/16	3	12.7	1/2	89	3-1/2	T38-89BDCB-1464	44523			
				2	9.5	3/8							
NO.	DROP CENTER		CARBIDE DIMENSIONS						DIAMETER		PART NUMBER		
			CARBIDE DESIGN	GAUGE NO. X DIA.			FRONT NO. X DIA.			D			
				No.	mm	In.	No.	mm	In.	mm	In.	USA	AUSTRIA
11	4 FRONT FLUSHING HOLES		HEM	8	11	7/16	4	10	13/32	76	3	T38-76BDC-1149	44604
							1	10	13/32				
			BAL	8	11	7/16	4	10	13/32	76	3	T38-76BDCB-1319	44605
							1	10	13/32				
			HEM	8	11	7/16	4	11	7/16	89	3-1/2	T38-89BDC-1143	44606
							2	9.5	3/8				
			BAL	8	11	7/16	4	11	7/16	89	3-1/2	T38-89BDCB-1321	44607
				2	9.5	3/8							
HEM	8	14	9/16	4	12.7	1/2	102	4	T38-102BDC-1365	44608			
				3	11	7/16							
BAL	8	14	9/16	4	12.7	1/2	102	4	T38-102BDCB-1450	44609			
				3	11	7/16							

CARBIDE PROFILE DESIGNS



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

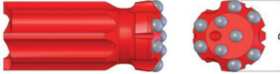
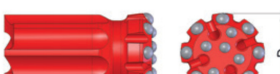
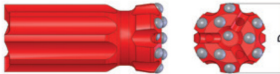
THREADED BITS



T38 1-1/2" (CONTINUED)

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



NO.	FLAT FACE - RETRAC  1 FRONT FLUSHING HOLE	CARBIDE DIMENSIONS						DIAMETER		PART NUMBER		
		CARBIDE DESIGN	GAUGE NO. X DIA.			FRONT NO. X DIA.			D		PART NUMBER	
			No.	mm	In.	No.	mm	In.	mm	In.	USA	AUSTRIA
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
NO.	FLAT FACE - RETRAC  3 FRONT FLUSHING HOLES	CARBIDE DIMENSIONS						DIAMETER		PART NUMBER		
		CARBIDE DESIGN	GAUGE NO. X DIA.			FRONT NO. X DIA.			D		PART NUMBER	
			No.	mm	In.	No.	mm	In.	mm	In.	USA	AUSTRIA
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
NO.	FLAT FACE - RETRAC  2 FRONT FLUSHING HOLES	CARBIDE DIMENSIONS						DIAMETER		PART NUMBER		
		CARBIDE DESIGN	GAUGE NO. X DIA.			FRONT NO. X DIA.			D		PART NUMBER	
			No.	mm	In.	No.	mm	In.	mm	In.	USA	AUSTRIA
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
NO.	FLAT FACE - RETRAC  4 FRONT FLUSHING HOLES	CARBIDE DIMENSIONS						DIAMETER		PART NUMBER		
		CARBIDE DESIGN	GAUGE NO. X DIA.			FRONT NO. X DIA.			D		PART NUMBER	
			No.	mm	In.	No.	mm	In.	mm	In.	USA	AUSTRIA
15		HEM	8	12.7	1/2	5	10	13/32	76	3	T38-76BFRT-3274	44132
NO.	FLAT FACE - RETRAC  2 FRONT FLUSHING HOLES	CARBIDE DIMENSIONS						DIAMETER		PART NUMBER		
		CARBIDE DESIGN	GAUGE NO. X DIA.			FRONT NO. X DIA.			D		PART NUMBER	
			No.	mm	In.	No.	mm	In.	mm	In.	USA	AUSTRIA
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
NO.	DROP CENTER - RETRAC  3 FRONT FLUSHING HOLES	CARBIDE DIMENSIONS						DIAMETER		PART NUMBER		
		CARBIDE DESIGN	GAUGE NO. X DIA.			FRONT NO. X DIA.			D		PART NUMBER	
			No.	mm	In.	No.	mm	In.	mm	In.	USA	AUSTRIA
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				

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.	DROP CENTER - XTRAC	CARBIDE DIMENSIONS						DIAMETER		PART NUMBER		
		CARBIDE	GAUGE NO. X DIA.			FRONT NO. X DIA.			D		PART NUMBER	
		DESIGN	No.	mm	In.	No.	mm	In.	mm	In.	USA	AUSTRIA
		HEM	6	12.7	1/2	3 1	9 9	11/32 11/32	64	2-1/2	T38-64BRTDC-4185	16082
18	 3 FRONT FLUSHING HOLES											
NO.	DROP CENTER - RETRAC	CARBIDE DIMENSIONS						DIAMETER		PART NUMBER		
		CARBIDE	GAUGE NO. X DIA.			FRONT NO. X DIA.			D		PART NUMBER	
		DESIGN	No.	mm	In.	No.	mm	In.	mm	In.	USA	AUSTRIA
		HEM	8	11	7/16	4 1	10 10	13/32 13/32	76	3	T38-76BRTDC-2142	44751
19	 4 FRONT FLUSHING HOLES	BAL	8	11	7/16	4 1	10 10	13/32 13/32	76	3	T38-76BRTDCB-865	44828
		HEM	8	11	7/16	4 2	11 9.5	7/16 3/8	89	3-1/2	T38-89BRTDC-2642	44897
		BAL	8	11	7/16	4 2	11 9.5	7/16 3/8	89	3-1/2	T38-89BRTDCB-2643	44898
		HEM	8	14	9/16	4 3	12.7 11	1/2 7/16	102	4	T38-102BRTDC-2532	44899
		BAL	8	14	9/16	4 3	12.7 11	1/2 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.

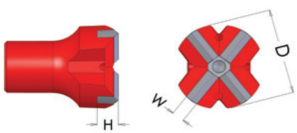
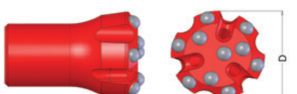
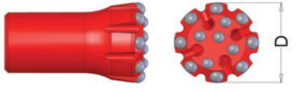
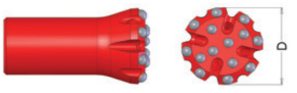
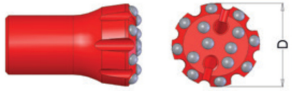
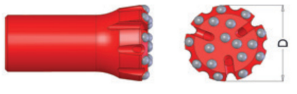
THREADED BITS



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					
		mm	In.		mm	In.		mm	In.	USA	AUSTRIA		
		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		
1		16	5/8		25	1		102	4	T45-102XHD-305	49642		
NO.	FLAT FACE	CARBIDE DIMENSIONS						DIAMETER		PART NUMBER			
		CARBIDE DESIGN	GAUGE NO. X DIA.			FRONT NO. X DIA.			D				
			No.	mm	In.	No.	mm	In.	mm	In.	USA	AUSTRIA	
			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
2		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			
		CARBIDE DESIGN	GAUGE NO. X DIA.			FRONT NO. X DIA.			D				
			No.	mm	In.	No.	mm	In.	mm	In.	USA	AUSTRIA	
			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
3		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			
		CARBIDE DESIGN	GAUGE NO. X DIA.			FRONT NO. X DIA.			D				
			No.	mm	In.	No.	mm	In.	mm	In.	USA	AUSTRIA	
			HEM	8	12.7	1/2	6	12.7	1/2	89	3-1/2	T45-89BF-3959	41157
			HEM	8	14	9/16	6	12.7	1/2	102	4	T45-102BF-4006	44016
4													
NO.	FLAT FACE	CARBIDE DIMENSIONS						DIAMETER		PART NUMBER			
		CARBIDE DESIGN	GAUGE NO. X DIA.			FRONT NO. X DIA.			D				
			No.	mm	In.	No.	mm	In.	mm	In.	USA	AUSTRIA	
			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
5		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			
		CARBIDE DESIGN	GAUGE NO. X DIA.			FRONT NO. X DIA.			D				
			No.	mm	In.	No.	mm	In.	mm	In.	USA	AUSTRIA	
			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
6		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



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.

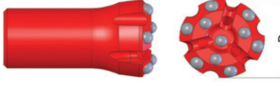
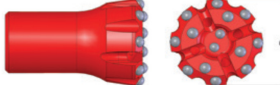
THREADED BITS

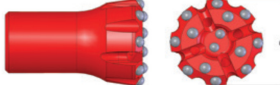


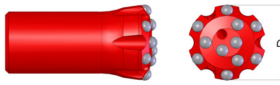
T45 1-3/4" (CONTINUED)

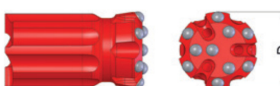
These bits are available optionally in XT45 thread for use in Rockmore's Vector Rod System.



NO.	DROP CENTER	CARBIDE DIMENSIONS						DIAMETER		PART NUMBER			
		CARBIDE	GAUGE NO. X DIA.			FRONT NO. X DIA.			D		USA		AUSTRIA
		DESIGN	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
						1	9.5	3/8					
		BAL	6	11	7/16	3	11	7/16	70	2-3/4	T45-70BDCB-175		44592
						1	9.5	3/8					
		HEM	6	12.7	1/2	3	11	7/16	76	3	T45-76BDC-042		44744
						1	9.5	3/8					
8		BAL	6	12.7	1/2	3	11	7/16	76	3	T45-76BDCB-1463		44781
						1	9.5	3/8					
		HEM	6	14	9/16	3	12.7	1/2	89	3-1/2	T45-89BDC-048		44593
						2	9.5	3/8					
		BAL	6	14	9/16	3	12.7	1/2	89	3-1/2	T45-89BDCB-1465		44594
						2	9.5	3/8					
3 FRONT FLUSHING HOLES													

NO.	DROP CENTER	CARBIDE DIMENSIONS						DIAMETER		PART NUMBER			
		CARBIDE	GAUGE NO. X DIA.			FRONT NO. X DIA.			D		USA		AUSTRIA
		DESIGN	No.	mm	In.	No.	mm	In.	mm	In.			
8		HEM	8	11	7/16	4	10	13/32	76	3	T45-76BDC-1148		44863
						1	10	13/32					
		BAL	8	11	7/16	4	10	13/32	76	3	T45-76BDCB-1316		44864
						1	10	13/32					
		HEM	8	11	7/16	4	11	7/16	83	3-1/4	T45-83BDC-2938		44260
						2	9.5	3/8					
		BAL	8	11	7/16	4	11	7/16	83	3-1/4	T45-83BDCB-2939		44261
						2	9.5	3/8					
		HEM	8	11	7/16	4	11	7/16	89	3-1/2	T45-89BDC-1142		44818
						2	9.5	3/8					
		HEM	8	12.7	1/2	4	12.7	1/2	89	3-1/2	T45-89BDC-3987		44008
						1	12.7	1/2					
BAL	8	11	7/16	4	11	7/16	89	3-1/2	T45-89BDCB-1318		44819		
				2	9.5	3/8							
BAL	8	12.7	1/2	4	12.7	1/2	89	3-1/2	T45-89BDCB-3995		44004		
				1	12.7	1/2							
HEM	8	14	9/16	4	12.7	1/2	102	4	T45-102BDC-1131		44820		
				3	11	7/16							
BAL	8	14	9/16	4	12.7	1/2	102	4	T45-102BDCB-1451		44865		
				3	11	7/16							
HEM	8	14	9/16	4	14	9/16	115	4-1/2	T45-115BDC-329		44866		
				3	12.7	1/2							
4 FRONT FLUSHING HOLES													

NO.	SEMI DOME	CARBIDE DIMENSIONS						DIAMETER		PART NUMBER			
		CARBIDE	GAUGE NO. X DIA.			FRONT NO. X DIA.			D		USA		AUSTRIA
		DESIGN	No.	mm	In.	No.	mm	In.	mm	In.			
9		HEM	6	11	7/16	5	11	7/16	70	2-3/4	T45-70BSD-597		44524
		BAL	6	11	7/16	5	11	7/16	70	2-3/4	T45-70BSD-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	T45-76BSD-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	T45-89BSD-785		44596
1 FRONT FLUSHING HOLE													

NO.	FLAT FACE - RETRAC	CARBIDE DIMENSIONS						DIAMETER		PART NUMBER			
		CARBIDE	GAUGE NO. X DIA.			FRONT NO. X DIA.			D		USA		AUSTRIA
		DESIGN	No.	mm	In.	No.	mm	In.	mm	In.			
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
3 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.

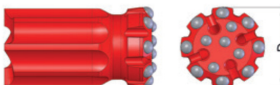
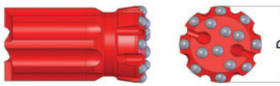
THREADED BITS



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  4 FRONT FLUSHING HOLES	CARBIDE DIMENSIONS						DIAMETER		PART NUMBER		
		CARBIDE DESIGN	GAUGE NO. X DIA.			FRONT NO. X DIA.			D		PART NUMBER	
			No.	mm	In.	No.	mm	In.	mm	In.	USA	AUSTRIA
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
NO.	FLAT FACE - RETRAC  2 FRONT FLUSHING HOLES	CARBIDE DIMENSIONS						DIAMETER		PART NUMBER		
		CARBIDE DESIGN	GAUGE NO. X DIA.			FRONT NO. X DIA.			D		PART NUMBER	
			No.	mm	In.	No.	mm	In.	mm	In.	USA	AUSTRIA
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
NO.	DROP CENTER - RETRAC  3 FRONT FLUSHING HOLES	CARBIDE DIMENSIONS						DIAMETER		PART NUMBER		
		CARBIDE DESIGN	GAUGE NO. X DIA.			FRONT NO. X DIA.			D		PART NUMBER	
			No.	mm	In.	No.	mm	In.	mm	In.	USA	AUSTRIA
13		HEM	6	11	7/16	3	11	7/16	70	2-3/4	T45-70BRTDC-2648	44904
					1	9.5	3/8					
		BAL	6	11	7/16	3	11	7/16	70	2-3/4	T45-70BRTDCB-2649	44905
					1	9.5	3/8					
		HEM	6	12.7	1/2	3	11	7/16	76	3	T45-76BRTDC-2175	44552
					1	9.5	3/8					
14		BAL	6	12.7	1/2	3	11	7/16	76	3	T45-76BRTDCB-2411	44906
					1	9.5	3/8					
		HEM	6	14	9/16	3	12.7	1/2	89	3-1/2	T45-89BRTDC-2241	44973
					2	9.5	3/8					
		BAL	6	14	9/16	3	12.7	1/2	89	3-1/2	T45-89BRTDCB-2313	44974
					2	9.5	3/8					
NO.	DROP CENTER - RETRAC  4 FRONT FLUSHING HOLES	CARBIDE DIMENSIONS						DIAMETER		PART NUMBER		
		CARBIDE DESIGN	GAUGE NO. X DIA.			FRONT NO. X DIA.			D		PART NUMBER	
			No.	mm	In.	No.	mm	In.	mm	In.	USA	AUSTRIA
14		HEM	8	11	7/16	4	10	13/32	76	3	T45-76BRTDC-1926	44814
					1	10	13/32					
		BAL	8	11	7/16	4	10	13/32	76	3	T45-76BRTDCB-862	44822
					1	10	13/32					
		HEM	8	11	7/16	4	11	7/16	89	3-1/2	T45-89BRTDC-1927	44801
					2	9.5	3/8					
		HEM	8	12.7	1/2	4	12.7	1/2	89	3-1/2	T45-89BRTDC-4001	41135
					1	12.7	1/2					
		BAL	8	11	7/16	4	11	7/16	89	3-1/2	T45-89BRTDCB-861	44745
					2	9.5	3/8					
		BAL	8	12.7	1/2	4	12.7	1/2	89	3-1/2	T45-89BRTDCB-4002	41136
					1	12.7	1/2					
		HEM	8	14	9/16	4	12.7	1/2	102	4	T45-102BRTDC-2484	44907
					3	11	7/16					
	BAL	8	14	9/16	4	12.7	1/2	102	4	T45-102BRTDCB-21	44823	
				3	11	7/16						
	HEM	8	14	9/16	4	14	9/16	115	4-1/2	T45-115BRTDC-2650	44556	
				3	12.7	1/2						
	HEM	8	16	5/8	4	16	5/8	127	5	T45-127BRTDC-2651	44995	
				3	12.7	1/2						

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.

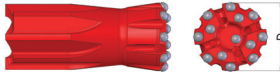
THREADED BITS



T45 1-3/4" (CONTINUED)

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



NO.	DROP CENTER - XTRAC	CARBIDE DIMENSIONS						DIAMETER				
		CARBIDE	GAUGE NO. X DIA.			FRONT NO. X DIA.			D		PART NUMBER	
		DESIGN	No.	mm	In.	No.	mm	In.	mm	In.	USA	AUSTRIA
15		HEM	8	11	7/16	4	10	13/32	76	3	T45-76BRTDC-4214	16083
		BAL	8	11	7/16	4	10	13/32	76	3	T45-76BRTDCB-4052	41197
		HEM	8	12.7	1/2	4	12.7	1/2	89	3-1/2	T45-89BRTDC-3919	16084
		BAL	8	12.7	1/2	4	12.7	1/2	89	3-1/2	T45-89BRTDCB-3989	41198

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.

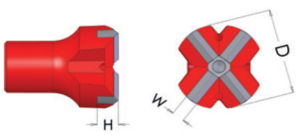
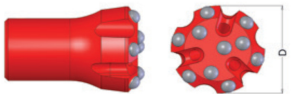
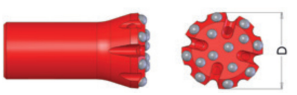
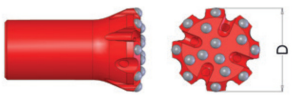
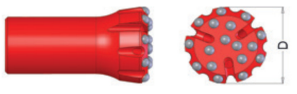
THREADED BITS



T51 2"

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



NO.	X MULTI - USE	CARBIDE DIMENSIONS				DIAMETER		PART NUMBER					
		W		H		D							
		mm	In.	mm	In.	mm	In.	USA	AUSTRIA				
		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				
1		16	5/8	25	1	115	4-1/2	T51-115XHD-157	49694				
1 FRONT FLUSHING HOLE													
NO.	FLAT FACE	CARBIDE DIMENSIONS				DIAMETER		PART NUMBER					
		CARBIDE DESIGN	GAUGE NO. X DIA.		FRONT NO. X DIA.		D						
			No.	mm	In.	No.	mm	In.	mm	In.	USA	AUSTRIA	
			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
2													
3 FRONT FLUSHING HOLES													
NO.	FLAT FACE	CARBIDE DIMENSIONS				DIAMETER		PART NUMBER					
		CARBIDE DESIGN	GAUGE NO. X DIA.		FRONT NO. X DIA.		D						
			No.	mm	In.	No.	mm	In.	mm	In.	USA	AUSTRIA	
			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
			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
			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
			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
			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
			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
			HEM	8	16	5/8	8	16	5/8	140	5-1/2	T51-140BF-1699	44988
			NO.	FLAT FACE	CARBIDE DIMENSIONS				DIAMETER		PART NUMBER		
					CARBIDE DESIGN	GAUGE NO. X DIA.		FRONT NO. X DIA.		D			
No.	mm	In.				No.	mm	In.	mm	In.	USA	AUSTRIA	
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
4		BAL	8	14	9/16	6	12.7	1/2	102	4	T51-102BFB-1837	44468	
4 FRONT FLUSHING HOLES													
NO.	FLAT FACE	CARBIDE DIMENSIONS				DIAMETER		PART NUMBER					
		CARBIDE DESIGN	GAUGE NO. X DIA.		FRONT NO. X DIA.		D						
			No.	mm	In.	No.	mm	In.	mm	In.	USA	AUSTRIA	
			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
			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	
4 FRONT FLUSHING HOLES													
NO.	FLAT FACE	CARBIDE DIMENSIONS				DIAMETER		PART NUMBER					
		CARBIDE DESIGN	GAUGE NO. X DIA.		FRONT NO. X DIA.		D						
			No.	mm	In.	No.	mm	In.	mm	In.	USA	AUSTRIA	
			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
			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
			HEM	9	14	9/16	9	12.7	1/2	115	4-1/2	T51-115BF-1476	44909
6		HEM	9	14	9/16	9	14	9/16	127	5	T51-127BF-1477	44910	
3 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.

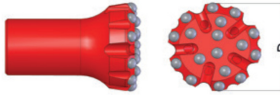
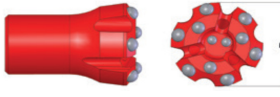
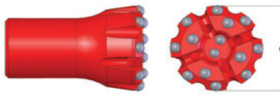
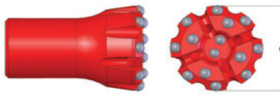
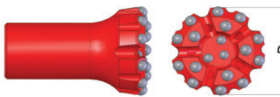
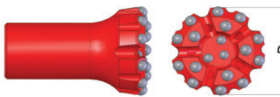
THREADED BITS



T51 2" (CONTINUED)

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



NO.	FLAT FACE, STARFLOW  5 FRONT FLUSHING HOLES	CARBIDE DIMENSIONS						DIAMETER		PART NUMBER				
		CARBIDE DESIGN	GAUGE NO. X DIA.			FRONT NO. X DIA.			D					
			No.	mm	In.	No.	mm	In.	mm	In.	USA	AUSTRIA		
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		
NO.	DROP CENTER  3 FRONT FLUSHING HOLES	CARBIDE DIMENSIONS						DIAMETER		PART NUMBER				
		CARBIDE DESIGN	GAUGE NO. X DIA.			FRONT NO. X DIA.			D					
			No.	mm	In.	No.	mm	In.	mm	In.	USA	AUSTRIA		
8		HEM	6	12.7	1/2	3	11	7/16	76	3	T51-76BDC-2610	44307		
					1	9.5	3/8							
		BAL	6	12.7	1/2	3	11	7/16	76	3	T51-76BDCB-2621	44308		
					1	9.5	3/8							
		HEM	6	12.7	1/2	3	11	7/16	80	3-1/8	T51-80BDC-255	44309		
					2	9.5	3/8							
		BAL	6	12.7	1/2	3	11	7/16	80	3-1/8	T51-80BDCB-2678	44310		
					2	9.5	3/8							
NO. <th rowspan="4">DROP CENTER  4 FRONT FLUSHING HOLES</th> <th colspan="6">CARBIDE DIMENSIONS</th> <th colspan="2">DIAMETER</th> <th colspan="2">PART NUMBER</th>	DROP CENTER  4 FRONT FLUSHING HOLES	CARBIDE DIMENSIONS						DIAMETER		PART NUMBER				
		CARBIDE DESIGN	GAUGE NO. X DIA.			FRONT NO. X DIA.			D					
			No.	mm	In.	No.	mm	In.	mm	In.	USA	AUSTRIA		
9		HEM	8	11	7/16	4	11	7/16	89	3-1/2	T51-89BDC-1329	44760		
					2	9.5	3/8							
		HEM	8	12.7	1/2	4	12.7	1/2	89	3-1/2	T51-89BDC-3934	44007		
					1	12.7	1/2							
		BAL	8	11	7/16	4	11	7/16	89	3-1/2	T51-89BDCB-1308	44759		
					2	9.5	3/8							
		BAL	8	12.7	1/2	4	12.7	1/2	89	3-1/2	T51-89BDCB-3999	44003		
					1	12.7	1/2							
		HEM	8	14	9/16	4	12.7	1/2	102	4	T51-102BDC-1325	44764		
					3	11	7/16							
		BAL	8	14	9/16	4	12.7	1/2	102	4	T51-102BDCB-1305	44763		
					3	11	7/16							
NO. <th rowspan="8">DROP CENTER, STARFLOW  5 FRONT FLUSHING HOLES</th> <th colspan="6">CARBIDE DIMENSIONS</th> <th colspan="2">DIAMETER</th> <th colspan="2">PART NUMBER</th>	DROP CENTER, STARFLOW  5 FRONT FLUSHING HOLES	CARBIDE DIMENSIONS						DIAMETER		PART NUMBER				
		CARBIDE DESIGN	GAUGE NO. X DIA.			FRONT NO. X DIA.			D					
			No.	mm	In.	No.	mm	In.	mm	In.	USA	AUSTRIA		
		10		HEM	10	14	9/16	5	12.7	1/2	115	4-1/2	T51-115BDC-3639	44086
							3	12.7	1/2					
				HEM	10	16	5/8	5	16	5/8	127	5	T51-127BDC-3640	44087
						3	12.7	1/2						
	HEM	10	16	5/8	5	16	5/8	140	5-1/2	T51-140BDC-3641	44088			
				4	14	9/16								

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.

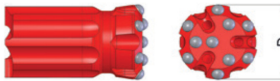
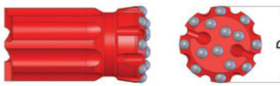
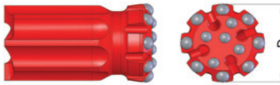
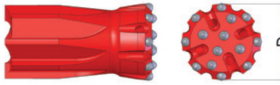
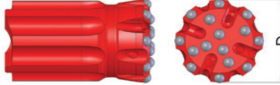
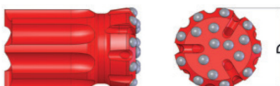
THREADED BITS



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	
12	2 FRONT FLUSHING HOLES 	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	
		13	4 FRONT FLUSHING HOLES 	HEM	8	12.7	1/2	5	12.7	1/2	89	3-1/2	T51-89BFRT-3571
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	
14	4 FRONT FLUSHING HOLES 	HEM	8	14	9/16	6	12.7	1/2	102	4	T51-102BFRT-4035	16085	
15	4 FRONT FLUSHING HOLES 	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	
16	3 FRONT FLUSHING HOLES 	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	

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.

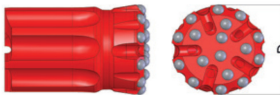
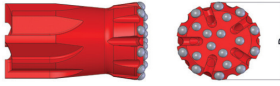
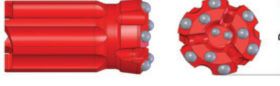
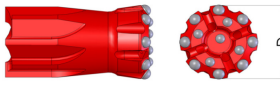
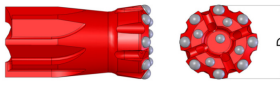
THREADED BITS



T51 2" (CONTINUED)

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



NO.	FLAT FACE - RETRAC, STARFLOW  5 FRONT FLUSHING HOLES	CARBIDE DIMENSIONS						DIAMETER		PART NUMBER			
		CARBIDE DESIGN	GAUGE NO. X DIA.			FRONT NO. X DIA.			D				
			No.	mm	In.	No.	mm	In.	mm	In.	USA	AUSTRIA	
17		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	
NO.	FLAT FACE - XTRAC, STARFLOW  5 FRONT FLUSHING HOLES	CARBIDE DIMENSIONS						DIAMETER		PART NUMBER			
		CARBIDE DESIGN	GAUGE NO. X DIA.			FRONT NO. X DIA.			D				
			No.	mm	In.	No.	mm	In.	mm	In.	USA	AUSTRIA	
		18		HEM	10	14	9/16	9	12.7	1/2	115	4-1/2	T51-115BFRT-4236
HEM	10			16	5/8	7	16	5/8	127	5	T51-127BFRT-3825	16088	
NO.	DROP CENTER - RETRAC  3 FRONT FLUSHING HOLES	CARBIDE DIMENSIONS						DIAMETER		PART NUMBER			
		CARBIDE DESIGN	GAUGE NO. X DIA.			FRONT NO. X DIA.			D				
			No.	mm	In.	No.	mm	In.	mm	In.	USA	AUSTRIA	
		19		HEM	6	14	9/16	3	12.7	1/2	89	3-1/2	T51-89BRTDC-2238
						2	9.5	3/8					
BAL	6			14	9/16	3	12.7	1/2	89	3-1/2	T51-89BRTDCB-916	44976	
						2	9.5	3/8					
NO.	DROP CENTER - RETRAC  4 FRONT FLUSHING HOLES	CARBIDE DIMENSIONS						DIAMETER		PART NUMBER			
		CARBIDE DESIGN	GAUGE NO. X DIA.			FRONT NO. X DIA.			D				
			No.	mm	In.	No.	mm	In.	mm	In.	USA	AUSTRIA	
		20	HEM	8	11	7/16	4	11	7/16	89	3-1/2	T51-89BRTDC-2330	44761
							2	9.5	3/8				
			HEM	8	12.7	1/2	4	12.7	1/2	89	3-1/2	T51-89BRTDC-4003	41137
							1	12.7	1/2				
			BAL	8	11	7/16	4	11	7/16	89	3-1/2	T51-89BRTDCB-909	44746
							2	9.5	3/8				
			BAL	8	12.7	1/2	4	12.7	1/2	89	3-1/2	T51-89BRTDCB-4004	41138
							1	12.7	1/2				
			CON	8	12.7	1/2	4	11	7/16	89	3-1/2	T51-89BRTDCC-2511	44336
							2	9.5	3/8				
			BAL	8	12.7	1/2	4	12.7	1/2	93	3-11/16	T51-93BRTDCB-3409	44187
							2	9.5	3/8				
			HEM	8	14	9/16	4	12.7	1/2	102	4	T51-102BRTDC-2662	44747
					3	11	7/16						
BAL	8	14	9/16	4	12.7	1/2	102	4	T51-102BRTDCB-210	44748			
				3	11	7/16							
CON	8	14	9/16	4	12.7	1/2	102	4	T51-102BRTDCC-010	44749			
				3	11	7/16							
21	DROP CENTER - XTRAC  4 FRONT FLUSHING HOLES	HEM	8	14	9/16	4	14	9/16	115	4-1/2	T51-115BRTDC-2495	44982	
						3	12.7	1/2					
		HEM	8	16	5/8	4	16	5/8	127	5	T51-127BRTDC-2663	44983	
						3	12.7	1/2					
21		HEM	8	16	5/8	4	16	5/8	140	5-1/2	T51-140BRTDC-2664	44984	
						4	16	5/8					
						4	14	9/16					
NO.	DROP CENTER - XTRAC  4 FRONT FLUSHING HOLES	CARBIDE DIMENSIONS						DIAMETER		PART NUMBER			
		CARBIDE DESIGN	GAUGE NO. X DIA.			FRONT NO. X DIA.			D				
			No.	mm	In.	No.	mm	In.	mm	In.	USA	AUSTRIA	
21		HEM	8	12.7	1/2	4	12.7	1/2	89	3-1/2	T51-89BRTDC-3988	16109	
						1	12.7	1/2					
		HEM	8	16	5/8	4	12.7	1/2	102	4	T51-102BRTDC-3993	44006	
				1	12.7	1/2							
		BAL	8	16	5/8	4	12.7	1/2	102	4	T51-102BRTDCB-4034	44005	
						1	12.7	1/2					

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.

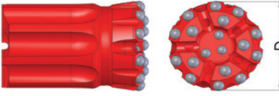
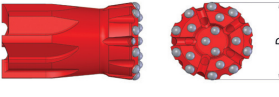
THREADED BITS



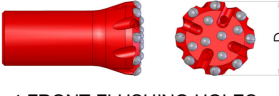
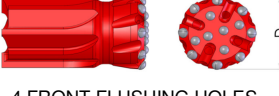
T51 2" (CONTINUED)

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



NO.	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	AUSTRIA
			No.	mm	In.	No.	mm	In.	mm	In.		
22		HEM	10	14	9/16	5	12.7	1/2	115	4-1/2	T51-115BRTDC-3617	44089
						3	12.7	1/2				
		HEM	10	16	5/8	5	16	5/8	127	5	T51-127BRTDC-3633	44090
						3	12.7	1/2				
		HEM	10	16	5/8	5	16	5/8	140	5-1/2	T51-140BRTDC-3634	44091
						4	14	9/16				
NO.	DROP CENTER - XTRAC, STARFLOW  5 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.		
23		HEM	10	14	9/16	5	12.7	1/2	115	4-1/2	T51-115BRTDC-4228	16087
						3	12.7	1/2				
		HEM	10	16	5/8	5	16	5/8	127	5	T51-127BRTDC-4065	16089
						3	12.7	1/2				

T51 2" Xtreme Series (for extreme hard and abrasive rock conditions - with FA carbide)

NO.	FLAT FACE, XTREME  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.		
24		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  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.		
25		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



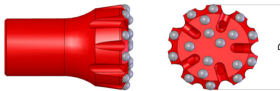
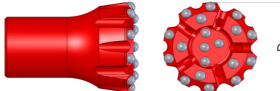
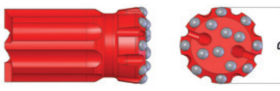
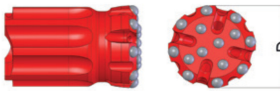
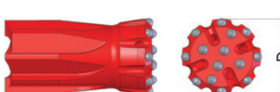
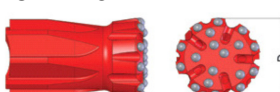
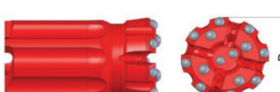
HEM = Hemispherical Carbide; BAL = (Semi) Ballistic Carbide; CP = CrownPoint carbide; CON = Conical carbide; FB = Full Ballistic Carbide; MP = MultiPoint carbide, on request
Note: Some button bits may not be offered with a particular carbide design shown above.

THREADED BITS



XT51 2" ROCKMORE Vector Rod System



NO.	FLAT FACE, STARFLOW  5 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	10	16	5/8	8	16	5/8	140	5-1/2	XT51-140BF-4093	44051
NO.	DROP CENTER, STARFLOW  5 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	10	16	5/8	5	16	5/8	140	5-1/2	XT51-140BDC-4094	44053
						4	14	9/16				
NO.	FLAT FACE - RETRAC  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	12.7	1/2	89	3-1/2	XT51-89BFRT-3292	44215
NO.	FLAT FACE - 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.		
4		CP	8	14	9/16	6	12.7	1/2	102	4	XT51-102BFRTCP-3324	44207
		CON	8	14	9/16	6	14	9/16	102	4	XT51-102BFRTC-3298	44213
NO.	FLAT FACE - XTRAC  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		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
NO.	FLAT FACE - XTRAC, STARFLOW  5 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	10	16	5/8	8	16	5/8	140	5-1/2	XT51-140BFRT-4095	44052
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.		
7		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

					
Hemispherical	Hemispherical MultiPoint	(Semi) Ballistic	(Semi) Ballistic MultiPoint	CrownPoint	Conical

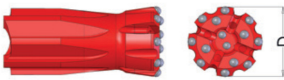
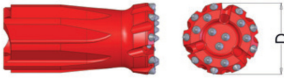
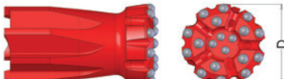
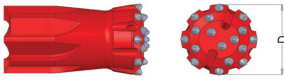
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 Note: Some button bits may not be offered with a particular carbide design shown above.

THREADED BITS



XT51 2" ROCKMORE Vector Rod System (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 * = SPECIAL 1 SIDE HOLE	HEM	8	11	7/16	4	11	7/16	89	3-1/2	XT51-89BRTDC-3421 *	44214
						2	9.5	3/8				
		HEM	8	11	7/16	4	11	7/16	89	3-1/2	XT51-89BRTDC-4316	16111
						2	9.5	3/8				
		BAL	8	11	7/16	4	11	7/16	89	3-1/2	XT51-89BRTDCB-3562 *	44146
						2	9.5	3/8				
		BAL	8	11	7/16	4	11	7/16	89	3-1/2	XT51-89BRTDCB-4023	16110
						1	9.5	3/8				
9	 3 FRONT FLUSHING HOLES	BAL	9	10	13/32	6	10	13/32	94	3-11/16	XT51-94BRTDCB-3315	44121
						3	10	13/32				
		CON	9	10	13/32	6	10	13/32	94	3-11/16	XT51-94BRTDCC-3319	44203
						3	10	13/32				
10	 5 FRONT FLUSHING HOLES											
11	 2 FRONT FLUSHING HOLES											

CARBIDE PROFILE DESIGNS

					
Hemispherical	Hemispherical MultiPoint	(Semi) Ballistic	(Semi) Ballistic MultiPoint	CrownPoint	Conical

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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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		PART NUMBER	
					No.	mm	In.	No.	mm	In.	mm	In.	USA	AUSTRIA
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
NO.	DROP CENTER - RETRAC			CARBIDE DIMENSIONS						DIAMETER		PART NUMBER		
				CARBIDE DESIGN	GAUGE NO. X DIA.			FRONT NO. X DIA.			D		PART NUMBER	
					No.	mm	In.	No.	mm	In.	mm	In.	USA	AUSTRIA
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				
				BAL	8	12.7	1/2	4	12.7	1/2	93	3-11/16	ST58-93BRTDCB-3746	44916
								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								

CARBIDE PROFILE DESIGNS

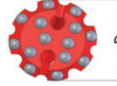
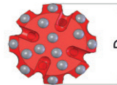
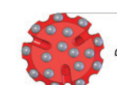
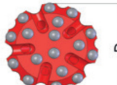
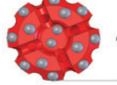


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THREADED BITS



GT60 2-3/8"

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.		
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
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.		
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
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.		
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
NO.	FLAT FACE, STARFLOW   5 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	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
NO.	DROP CENTER   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	12.7	1/2	4	12.7	1/2	93	3-11/16	GT60-93BDC-2085	44286
		BAL	8	12.7	1/2	4	12.7	1/2	93	3-11/16	GT60-93BDCB-2712	44285
		HEM	8	12.7	1/2	4	12.7	1/2	95	3-3/4	GT60-95BDC-2713	44284
		BAL	8	12.7	1/2	4	12.7	1/2	95	3-3/4	GT60-95BDCB-2714	44283
		HEM	8	14	9/16	4	12.7	1/2	102	4	GT60-102BDC-2086	44364
		BAL	8	14	9/16	4	12.7	1/2	102	4	GT60-102BDCB-766	44365
		HEM	8	14	9/16	4	14	9/16	115	4-1/2	GT60-115BDC-2087	44366
		BAL	8	14	9/16	4	14	9/16	115	4-1/2	GT60-115BDCB-938	44367
HEM	8	16	5/8	4	16	5/8	127	5	GT60-127BDC-1999	44368		
BAL	8	16	5/8	4	16	5/8	127	5	GT60-127BDCB-2064	44369		
HEM	8	16	5/8	4	16	5/8	140	5-1/2	GT60-140BDC-2000	44370		
HEM	8	16	5/8	6	16	5/8	152	6	GT60-152BDC-2342	44208		

CARBIDE PROFILE DESIGNS

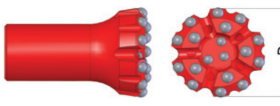
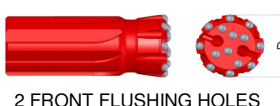
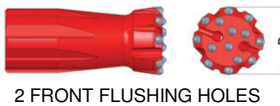
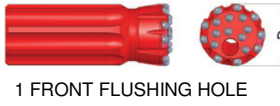
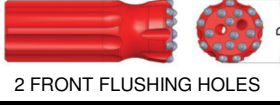
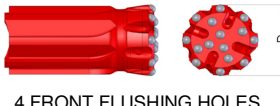
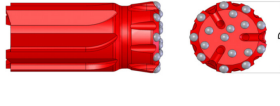
					
Hemispherical	Hemispherical MultiPoint	(Semi) Ballistic	(Semi) Ballistic MultiPoint	CrownPoint	Conical

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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		PART NUMBER	
			No.	mm	In.	No.	mm	In.	mm	In.	USA	AUSTRIA
6		HEM	10	14	9/16	5	12.7	1/2	115	4-1/2	GT60-115BDC-3645	44108
						3	12.7	1/2				
		HEM	10	16	5/8	5	16	5/8	127	5	GT60-127BDC-3646	44109
						3	12.7	1/2				
		HEM	10	16	5/8	5	16	5/8	140	5-1/2	GT60-140BDC-3647	44110
						4	14	9/16				
		HEM	10	16	5/8	5	16	5/8	152	6	GT60-152BDC-4190	16105
						4	14	9/16				
5 FRONT FLUSHING HOLES												
NO.	FLAT FACE - RETRAC	CARBIDE DIMENSIONS						DIAMETER		PART NUMBER		
		CARBIDE DESIGN	GAUGE NO. X DIA.			FRONT NO. X DIA.			D		PART NUMBER	
			No.	mm	In.	No.	mm	In.	mm	In.	USA	AUSTRIA
7		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
2 FRONT FLUSHING HOLES												
NO.	FLAT FACE - XTRAC	CARBIDE DIMENSIONS						DIAMETER		PART NUMBER		
		CARBIDE DESIGN	GAUGE NO. X DIA.			FRONT NO. X DIA.			D		PART NUMBER	
			No.	mm	In.	No.	mm	In.	mm	In.	USA	AUSTRIA
8		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
2 FRONT FLUSHING HOLES												
NO.	FLAT FACE - RETRAC	CARBIDE DIMENSIONS						DIAMETER		PART NUMBER		
		CARBIDE DESIGN	GAUGE NO. X DIA.			FRONT NO. X DIA.			D		PART NUMBER	
			No.	mm	In.	No.	mm	In.	mm	In.	USA	AUSTRIA
9		BAL	9	12.7	1/2	9	11	7/16	93	3-11/16	GT60-93BFRTB-3177	44234
1 FRONT FLUSHING HOLE												
NO.	FLAT FACE - RETRAC	CARBIDE DIMENSIONS						DIAMETER		PART NUMBER		
		CARBIDE DESIGN	GAUGE NO. X DIA.			FRONT NO. X DIA.			D		PART NUMBER	
			No.	mm	In.	No.	mm	In.	mm	In.	USA	AUSTRIA
10		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
2 FRONT FLUSHING HOLES												
NO.	FLAT FACE - XTRAC	CARBIDE DIMENSIONS						DIAMETER		PART NUMBER		
		CARBIDE DESIGN	GAUGE NO. X DIA.			FRONT NO. X DIA.			D		PART NUMBER	
			No.	mm	In.	No.	mm	In.	mm	In.	USA	AUSTRIA
11		BAL	9	12.7	1/2	9	12.7	1/2	94	3-11/16	GT60-94BFRTB-3577	44143
2 FRONT FLUSHING HOLES												
NO.	FLAT FACE - RETRAC	CARBIDE DIMENSIONS						DIAMETER		PART NUMBER		
		CARBIDE DESIGN	GAUGE NO. X DIA.			FRONT NO. X DIA.			D		PART NUMBER	
			No.	mm	In.	No.	mm	In.	mm	In.	USA	AUSTRIA
12		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
4 FRONT FLUSHING HOLES												
NO.	FLAT FACE - RETRAC	CARBIDE DIMENSIONS						DIAMETER		PART NUMBER		
		CARBIDE DESIGN	GAUGE NO. X DIA.			FRONT NO. X DIA.			D		PART NUMBER	
			No.	mm	In.	No.	mm	In.	mm	In.	USA	AUSTRIA
13		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	9	11	7/16	102	4	GT60-102BFRT-3514	44010
		BAL	9	12.7	1/2	8	12.7	1/2	102	4	GT60-102BFRTB-3725	44074
3 FRONT FLUSHING HOLES												

CARBIDE PROFILE DESIGNS

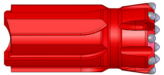
					
Hemispherical	MultiPoint	(Semi) Ballistic	(Semi) Ballistic MultiPoint	CrownPoint	Conical

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THREADED BITS



GT60 2-3/8" (CONTINUED)

NO.	FLAT FACE - XTRAC  3 FRONT FLUSHING HOLES	CARBIDE DIMENSIONS						DIAMETER		PART NUMBER			
		CARBIDE DESIGN	GAUGE NO. X DIA.			FRONT NO. X DIA.			D		PART NUMBER		
			No.	mm	In.	No.	mm	In.	mm	In.	USA	AUSTRIA	
14		HEM	9	16	5/8	9	12.7	1/2	115	4-1/2	GT60-115BFRT-3821	44039	
NO.	FLAT FACE - RETRAC, STARFLOW  5 FRONT FLUSHING HOLES	CARBIDE DIMENSIONS						DIAMETER		PART NUMBER			
		CARBIDE DESIGN	GAUGE NO. X DIA.			FRONT NO. X DIA.			D		PART NUMBER		
			No.	mm	In.	No.	mm	In.	mm	In.	USA	AUSTRIA	
			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	
NO.	FLAT FACE - XTRAC, STARFLOW  5 FRONT FLUSHING HOLES	CARBIDE DIMENSIONS						DIAMETER		PART NUMBER			
		CARBIDE DESIGN	GAUGE NO. X DIA.			FRONT NO. X DIA.			D		PART NUMBER		
			No.	mm	In.	No.	mm	In.	mm	In.	USA	AUSTRIA	
			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
		HEM	10	16	5/8	8	16	5/8	152	6	GT60-152BFRT-3660	16103	
NO.	DROP CENTER - RETRAC  4 FRONT FLUSHING HOLES	CARBIDE DIMENSIONS						DIAMETER		PART NUMBER			
		CARBIDE DESIGN	GAUGE NO. X DIA.			FRONT NO. X DIA.			D		PART NUMBER		
			No.	mm	In.	No.	mm	In.	mm	In.	USA	AUSTRIA	
			HEM	8	12.7	1/2	4	12.7	1/2	93	3-11/16	GT60-93BRTDC-999	44278
						2	9.5	3/8					
			BAL	8	12.7	1/2	4	12.7	1/2	93	3-11/16	GT60-93BRTDCB-2719	44277
						2	9.5	3/8					
			HEM	8	12.7	1/2	4	12.7	1/2	95	3-3/4	GT60-95BRTDC-2720	44276
						2	9.5	3/8					
			BAL	8	12.7	1/2	4	12.7	1/2	95	3-3/4	GT60-95BRTDCB-2705	44275
						2	9.5	3/8					
			CON	8	12.7	1/2	4	12.7	1/2	95	3-3/4	GT60-95BRTDCC-3331	44202
						2	9.5	3/8					
			HEM	8	14	9/16	4	12.7	1/2	102	4	GT60-102BRTDC-647	44375
				3	11	7/16							
	BAL	8	14	9/16	4	12.7	1/2	102	4	GT60-102BRTDCB-749	44376		
				3	11	7/16							
	HEM	8	14	9/16	4	14	9/16	115	4-1/2	GT60-115BRTDC-759	44377		
				3	12.7	1/2							
	BAL	8	14	9/16	4	14	9/16	115	4-1/2	GT60-115BRTDCB-761	44337		
				3	12.7	1/2							
	HEM	8	16	5/8	4	16	5/8	127	5	GT60-127BRTDC-765	44378		
				3	12.7	1/2							
	HEM	8	16	5/8	4	16	5/8	140	5-1/2	GT60-140BRTDC-18	44379		
				4	14	9/16							
NO.	DROP CENTER - XTRAC  4 FRONT FLUSHING HOLES	CARBIDE DIMENSIONS						DIAMETER		PART NUMBER			
		CARBIDE DESIGN	GAUGE NO. X DIA.			FRONT NO. X DIA.			D		PART NUMBER		
			No.	mm	In.	No.	mm	In.	mm	In.	USA	AUSTRIA	
		18		HEM	8	14	9/16	4	12.7	1/2	102	4	GT60-102BRTDC-4075
					3	11	7/16						
		CON	8	12.7	1/2	4	12.7	1/2	102	4	GT60-102BRTDCC-3597	44138	
					3	11	7/16						

CARBIDE PROFILE DESIGNS

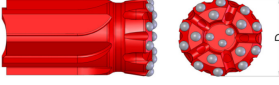
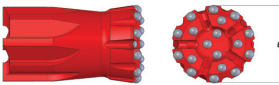
					
Hemispherical	Hemispherical MultiPoint	(Semi) Ballistic	(Semi) Ballistic MultiPoint	CrownPoint	Conical

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THREADED BITS



GT60 2-3/8" (CONTINUED)

NO.		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	DROP CENTER - RETRAC, STARFLOW  5 FRONT FLUSHING HOLES	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
NO.		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	
20	DROP CENTER - XTRAC, STARFLOW  5 FRONT FLUSHING HOLES	HEM	10	14	9/16	5 3	12.7 12.7	1/2 1/2	115	4-1/2	GT60-115BRTDC-4047	16100
		HEM	10	16	5/8	5 3	16 12.7	5/8 1/2	127	5	GT60-127BRTDC-4048	16101
		HEM	10	16	5/8	5 4	16 14	5/8 9/16	140	5-1/2	GT60-140BRTDC-4076	16102
		HEM	10	16	5/8	5 4	16 14	5/8 9/16	152	6	GT60-152BRTDC-4131	16104

CARBIDE PROFILE DESIGNS

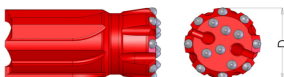
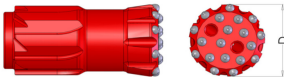
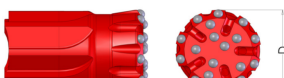
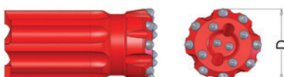
					
Hemispherical	Hemispherical MultiPoint	(Semi) Ballistic	(Semi) Ballistic MultiPoint	CrownPoint	Conical

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THREADED BITS



T-WIZ60 2-3/8"

NO.	FLAT FACE  2 FRONT FLUSHING HOLES	CARBIDE DIMENSIONS						DIAMETER		PART NUMBER		
		CARBIDE DESIGN	GAUGE NO. X DIA.			FRONT NO. X DIA.			D		PART NUMBER	
			No.	mm	In.	No.	mm	In.	mm	In.	USA	AUSTRIA
1		BAL	9	12.7	1/2	10	12.7	1/2	102	4	TWIZ60-102BFB-3865	44027
NO.	DROP CENTER  2 FRONT FLUSHING HOLES	CARBIDE DIMENSIONS						DIAMETER		PART NUMBER		
		CARBIDE DESIGN	GAUGE NO. X DIA.			FRONT NO. X DIA.			D		PART NUMBER	
			No.	mm	In.	No.	mm	In.	mm	In.	USA	AUSTRIA
2		BAL	8	14	9/16	4	12.7	1/2	102	4	TWIZ60-102BDCB-3952	44019
						2	11	7/16				
NO.	DROP CENTER  4 FRONT FLUSHING HOLES	CARBIDE DIMENSIONS						DIAMETER		PART NUMBER		
		CARBIDE DESIGN	GAUGE NO. X DIA.			FRONT NO. X DIA.			D		PART NUMBER	
			No.	mm	In.	No.	mm	In.	mm	In.	USA	AUSTRIA
3		BAL	8	14	9/16	4	12.7	1/2	102	4	TWIZ60-102BDCB-3951	44018
						3	11	7/16				
NO.	FLAT FACE - RETRAC  2 FRONT FLUSHING HOLES	CARBIDE DIMENSIONS						DIAMETER		PART NUMBER		
		CARBIDE DESIGN	GAUGE NO. X DIA.			FRONT NO. X DIA.			D		PART NUMBER	
			No.	mm	In.	No.	mm	In.	mm	In.	USA	AUSTRIA
4		BAL	8	12.7	1/2	6	12.7	1/2	95	3-3/4	TWIZ60-95BFRTB-3753	44061
NO.	FLAT FACE - RETRAC  2 FRONT FLUSHING HOLES	CARBIDE DIMENSIONS						DIAMETER		PART NUMBER		
		CARBIDE DESIGN	GAUGE NO. X DIA.			FRONT NO. X DIA.			D		PART NUMBER	
			No.	mm	In.	No.	mm	In.	mm	In.	USA	AUSTRIA
5		BAL	9	12.7	1/2	10	12.7	1/2	102	4	TWIZ60-102BFRTB-3829	44038
NO.	FLAT FACE - RETRAC  4 FRONT FLUSHING HOLES	CARBIDE DIMENSIONS						DIAMETER		PART NUMBER		
		CARBIDE DESIGN	GAUGE NO. X DIA.			FRONT NO. X DIA.			D		PART NUMBER	
			No.	mm	In.	No.	mm	In.	mm	In.	USA	AUSTRIA
6		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
NO.	FLAT FACE - RETRAC, STARFLOW  5 FRONT FLUSHING HOLES	CARBIDE DIMENSIONS						DIAMETER		PART NUMBER		
		CARBIDE DESIGN	GAUGE NO. X DIA.			FRONT NO. X DIA.			D		PART NUMBER	
			No.	mm	In.	No.	mm	In.	mm	In.	USA	AUSTRIA
7		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
NO.	DROP CENTER - RETRAC  2 FRONT FLUSHING HOLES	CARBIDE DIMENSIONS						DIAMETER		PART NUMBER		
		CARBIDE DESIGN	GAUGE NO. X DIA.			FRONT NO. X DIA.			D		PART NUMBER	
			No.	mm	In.	No.	mm	In.	mm	In.	USA	AUSTRIA
8		BAL	8	14	9/16	4	12.7	1/2	102	4	TWIZ60-102BRTDCB-3953	44020
						2	11	7/16				

CARBIDE PROFILE DESIGNS

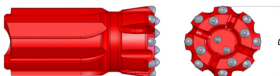
					
Hemispherical	Hemispherical MultiPoint	(Semi) Ballistic	(Semi) Ballistic MultiPoint	CrownPoint	Conical

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



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

NO.	DROP CENTER - RETRAC	CARBIDE DIMENSIONS						DIAMETER		PART NUMBER		
		CARBIDE DESIGN	GAUGE NO. X DIA.			FRONT NO. X DIA.			D			
			No.	mm	In.	No.	mm	In.	mm	In.	USA	AUSTRIA
9		BAL	8	12.7	1/2	4	12.7	1/2	95	3-3/4	TWIZ60-95BRTDCB-3912	44060
	4 FRONT FLUSHING HOLES											

CARBIDE PROFILE DESIGNS

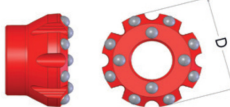
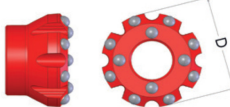
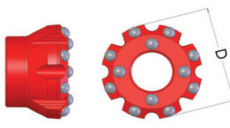
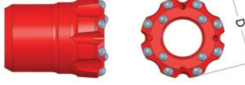
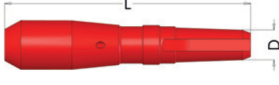
					
Hemispherical	Hemispherical MultiPoint	(Semi) Ballistic	(Semi) Ballistic MultiPoint	CrownPoint	Conical

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.

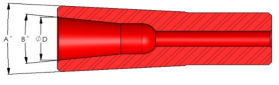
REAMING ACCESSORIES



REAMING BITS & PILOT ADAPTERS

NO.		CARBIDE DIMENSIONS						DIAMETER		PART NUMBER			
		ANGLE	GAUGE NO. X DIA.			FRONT NO. X DIA.			D		PART NUMBER		
			No.	mm	In.	No.	mm	In.	mm	In.	USA	AUSTRIA	
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	
NO.		CARBIDE DIMENSIONS						DIAMETER		PART NUMBER			
		ANGLE	GAUGE NO. X DIA.			FRONT NO. X DIA.			D		PART NUMBER		
			No.	mm	In.	No.	mm	In.	mm	In.	USA	AUSTRIA	
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	
NO.		CARBIDE DIMENSIONS						DIAMETER		PART NUMBER			
		ANGLE	GAUGE NO. X DIA.			FRONT NO. X DIA.			D		PART NUMBER		
			No.	mm	In.	No.	mm	In.	mm	In.	USA	AUSTRIA	
			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			
NO.		CARBIDE DIMENSIONS						DIAMETER		PART NUMBER			
		ANGLE	GAUGE NO. X DIA.			FRONT NO. X DIA.			D		PART NUMBER		
			No.	mm	In.	No.	mm	In.	mm	In.	USA	AUSTRIA	
			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
NO.		CARBIDE DIMENSIONS						DIAMETER		PART NUMBER			
		THREAD	GAUGE NO. X DIA.			FRONT NO. X DIA.			D		PART NUMBER		
			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			
NO.		THREAD							DIAMETER		PART NUMBER		
									D		PART NUMBER		
			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									

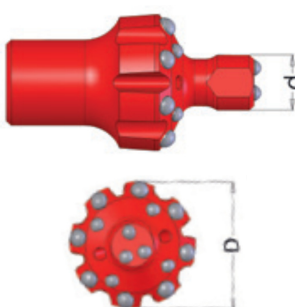
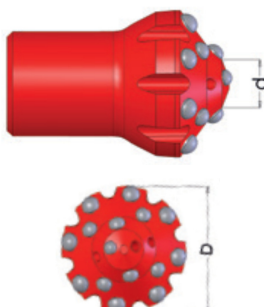
REAMING SHELLS

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

REAMING ACCESSORIES



HOLE OPENERS

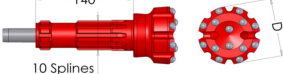
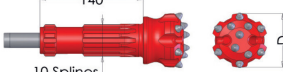
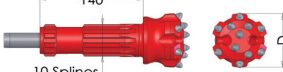
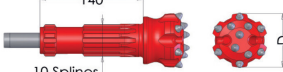
NO.	STANDARD TYPE	CARBIDE DIMENSIONS						DIAMETER				PART NUMBER		
		THD	GAUGE NO. X DIA.			FRONT NO. X DIA.			d		D		USA	AUSTRIA
			No.	mm	In.	No.	mm	In.	mm	In.	mm	In.		
1		R32	8	14	9/16	4	11	7/16	41	1-5/8	102	4	R32-41-102HO-925	43067
		T38	8	14	9/16	7	11	7/16	51	2	102	4	T38-51-102HO-889	43043
		T38	8	14	9/16	4	12.7	1/2	67	2-5/8	127	5	T38-67-127HO-278	43044
		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	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
		T45	8	16	5/8	6	14	9/16	64	2-1/2	152	6	T45-64-152HO-3681	43060
		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	8	16	5/8	152	6	203	8	T38-152-203HO-119	43049
		ST58	12	14	9/16	20	14	9/16	127	5	225	8-7/8	ST58-127-225HO-3482	43061
							4	14	9/16					
NO.	CONE 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.		
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	6	12.7	1/2	29	1-5/32	102	4	R32-29-102CO-192	43042
		R35	8	12.7	1/2	6	12.7	1/2	29	1-5/32	102	4	R35-29-102CO-891	43052
		T38	8	12.7	1/2	6	12.7	1/2	29	1-5/32	102	4	T38-29-102CO-3679	43064
		R32	8	14	9/16	10	12.7	1/2	29	1-5/32	115	4-1/2	R32-29-115CO-247	43050
		T38	8	14	9/16	8	12.7	1/2	29	1-5/32	115	4-1/2	T38-29-115CO-3680	43065
		R32	8	14	9/16	10	12.7	1/2	29	1-5/32	127	5	R32-29-127CO-270	43051
		T38	8	14	9/16	10	12.7	1/2	29	1-5/32	127	5	T38-29-127CO-039	43066
						1	11	7/16						
						1	9.5	3/8						
						1	11	7/16						

NOTE: ADDITIONAL THREADS AND SIZES AVAILABLE UPON REQUEST.

DOWN-THE-HOLE (DTH) BITS ROCKMORE



SHANK: RM250

NO.	CONCAVE  10 SPLINES 2 FRONT FLUSHING HOLES	CARBIDE DIMENSIONS						DIAMETER		PART NUMBER		
		CARBIDE DESIGN	GAUGE NO. X DIA.			FRONT NO. X DIA.			D		PART NUMBER	
			No.	mm	In.	No.	mm	In.	mm	In.	USA	AUSTRIA
1	 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  10 SPLINES 2 FRONT FLUSHING HOLES <th colspan="6">CARBIDE DIMENSIONS</th> <th colspan="2">DIAMETER</th> <th colspan="2">PART NUMBER</th>	CARBIDE DIMENSIONS						DIAMETER		PART NUMBER		
		CARBIDE DESIGN	GAUGE NO. X DIA.			FRONT NO. X DIA.			D		PART NUMBER	
			No.	mm	In.	No.	mm	In.	mm	In.	USA	AUSTRIA
2	 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.	3 RM250 BLOW TUBE									PART NUMBER		
										USA	AUSTRIA	
										BTRM250-1021	45118	

CARBIDE PROFILE DESIGNS

					
Hemispherical	Hemispherical MultiPoint	(Semi) Ballistic	(Semi) Ballistic MultiPoint	CrownPoint	Conical

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.

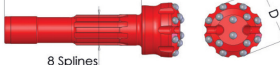
* = No shank breakage warranty

DOWN-THE-HOLE (DTH) BITS

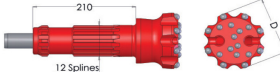
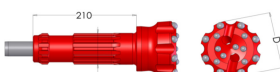
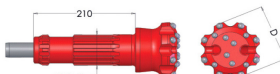
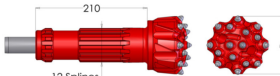
ATLAS COPCO



SHANK: COP 32

NO.	CONVEX  8 SPLINES 2 FRONT FLUSHING HOLES	CARBIDE DIMENSIONS						DIAMETER		PART NUMBER		
		CARBIDE DESIGN	GAUGE NO. X DIA.			FRONT NO. X DIA.			D		PART NUMBER	
			No.	mm	In.	No.	mm	In.	mm	In.	USA	AUSTRIA
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	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	 12 SPLINES 2 FRONT FLUSHING HOLES	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	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	 12 SPLINES 2 FRONT FLUSHING HOLES	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	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	 12 SPLINES 2 FRONT FLUSHING HOLES	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	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	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

					
Hemispherical	Hemispherical MultiPoint	(Semi) Ballistic	(Semi) Ballistic MultiPoint	CrownPoint	Conical

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

DOWN-THE-HOLE (DTH) BITS

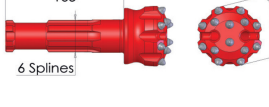
BULROC



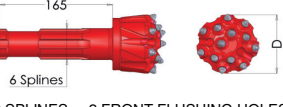
SHANK: BULROC 2 (BR2), ROK 20LT

NO.	FLAT FACE  6 SPLINES 2 FRONT FLUSHING HOLES	CARBIDE DIMENSIONS						DIAMETER				
		CARBIDE	GAUGE NO. X DIA.			FRONT NO. X DIA.			D		PART NUMBER	
		DESIGN	No.	mm	In.	No.	mm	In.	mm	In.	USA	AUSTRIA
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 (BR3)

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

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

SHANK: BULROC 33 (BR33), ROK 30LT

NO.	CONVEX	CARBIDE DIMENSIONS						DIAMETER		PART NUMBER		
		CARBIDE	GAUGE NO. X DIA.			FRONT NO. X DIA.			D		PART NUMBER	
		DESIGN	No.	mm	In.	No.	mm	In.	mm	In.	USA	AUSTRIA
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

					
Hemispherical	Hemispherical MultiPoint	(Semi) Ballistic	(Semi) Ballistic MultiPoint	CrownPoint	Conical

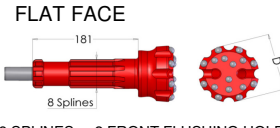
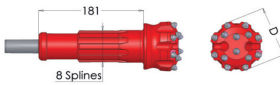
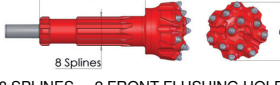
HEM = Hemispherical Carbide; BAL = (Semi) Ballistic Carbide; CP = CrownPoint carbide; CON = Conical carbide; FB = Full Ballistic Carbide; MP = MultiPoint carbide, on request
 Note: Some button bits may not be offered with a particular carbide design shown above.

* = No shank breakage warranty

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



SHANK: IR 3.5

NO.	FLAT FACE	CARBIDE DIMENSIONS						DIAMETER		PART NUMBER		
		CARBIDE	GAUGE NO. X DIA.			FRONT NO. X DIA.			D		PART NUMBER	
		DESIGN	No.	mm	In.	No.	mm	In.	mm	In.	USA	AUSTRIA
1		HEM	8	12.7	1/2	8	11	7/16	105	4-1/8	IR35-105FF-2590	45196
8 SPLINES 2 FRONT FLUSHING HOLES												
NO.	CONVEX	CARBIDE DIMENSIONS						DIAMETER		PART NUMBER		
		CARBIDE	GAUGE NO. X DIA.			FRONT NO. X DIA.			D		PART NUMBER	
		DESIGN	No.	mm	In.	No.	mm	In.	mm	In.	USA	AUSTRIA
2		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
8 SPLINES 2 FRONT FLUSHING HOLES												
NO.	HEDGEHOG, CONVEX	CARBIDE DIMENSIONS						DIAMETER		PART NUMBER		
		CARBIDE	GAUGE NO. X DIA.			FRONT NO. X DIA.			D		PART NUMBER	
		DESIGN	No.	mm	In.	No.	mm	In.	mm	In.	USA	AUSTRIA
3		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
8 SPLINES 2 FRONT FLUSHING HOLES												
NO.	IR 3.5 / IR 3.5HD BLOW TUBE									PART NUMBER		
										USA	AUSTRIA	
										BTIR35HD-1018	45099	

CARBIDE PROFILE DESIGNS

					
Hemispherical	Hemispherical MultiPoint	(Semi) Ballistic	(Semi) Ballistic MultiPoint	CrownPoint	Conical

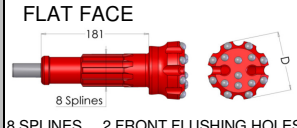
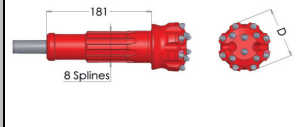
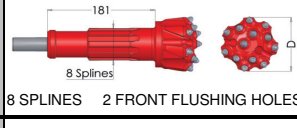
HEM = Hemispherical Carbide; BAL = (Semi) Ballistic Carbide; CP = CrownPoint carbide; CON = Conical carbide; FB = Full Ballistic Carbide; MP = MultiPoint carbide, on request
Note: Some button bits may not be offered with a particular carbide design shown above.

* = No shank breakage warranty

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



SHANK: IR 3.5HD

NO.	FLAT FACE  8 SPLINES 2 FRONT FLUSHING HOLES	CARBIDE DIMENSIONS						DIAMETER		PART NUMBER			
		CARBIDE DESIGN	GAUGE NO. X DIA.			FRONT NO. X DIA.			D		USA		AUSTRIA
			No.	mm	In.	No.	mm	In.	mm	In.			
5		HEM	8	14	9/16	7	12.7	1/2	105	4-1/8	IR35HD-105FF-2832		45335
NO.	CONVEX  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	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
NO.	HEDGEHOG, CONVEX  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		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
NO. <th rowspan="3">IR 3.5 / IR 3.5HD BLOW TUBE</th> <th colspan="6"></th> <th colspan="2"></th> <th colspan="2">PART NUMBER</th>	IR 3.5 / IR 3.5HD BLOW TUBE									PART NUMBER			
										USA	AUSTRIA		
										BTIR35HD-1018	45099		

CARBIDE PROFILE DESIGNS

					
Hemispherical	Hemispherical MultiPoint	(Semi) Ballistic	(Semi) Ballistic MultiPoint	CrownPoint	Conical

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.

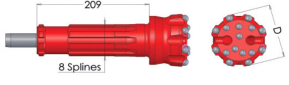
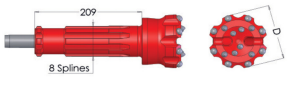
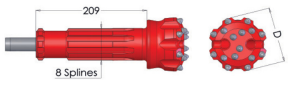
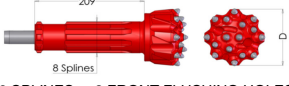
* = No shank breakage warranty

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			
			No.	mm	In.	No.	mm	In.	mm	In.	USA	AUSTRIA
9		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
		8 SPLINES 2 FRONT FLUSHING HOLES										
10		CARBIDE DIMENSIONS						DIAMETER		PART NUMBER		
		CARBIDE DESIGN	GAUGE NO. X DIA.			FRONT NO. X DIA.			D			
			No.	mm	In.	No.	mm	In.	mm	In.	USA	AUSTRIA
		HEM	8	12.7	1/2	8	11	7/16	105	4-1/8	340A-105CC-1603	45034
		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
		HEM / BAL	8	16	5/8	8	14	9/16	140 *	5-1/2	340A-140CC-4298	45644
		8 SPLINES 2 FRONT FLUSHING HOLES										
11		CARBIDE DIMENSIONS						DIAMETER		PART NUMBER		
		CARBIDE DESIGN	GAUGE NO. X DIA.			FRONT NO. X DIA.			D			
			No.	mm	In.	No.	mm	In.	mm	In.	USA	AUSTRIA
		HEM	8	14	9/16	8	12.7	1/2	105	4-1/8	340A-105CV-3757	41276
		BAL	8	12.7	1/2	8	11	7/16	105	4-1/8	340A-105CVB-2282	45167
		HEM	8	14	9/16	8	12.7	1/2	110	4-5/16	340A-110CV-4097	41287
		BAL	8	12.7	1/2	8	12.7	1/2	110	4-5/16	340A-110CVB-3760	41294
		BAL	8	14	9/16	8	12.7	1/2	110	4-5/16	340A-110CVB-2760	45443
		HEM	8	14	9/16	8	12.7	1/2	115	4-1/2	340A-115CV-1969	41278
		HEM / BAL	8	14	9/16	8	12.7	1/2	115	4-1/2	340A-115CV-4099	45636
		BAL	8	12.7	1/2	9	12.7	1/2	115	4-1/2	340A-115CVB-4100	45075
		BAL	8	14	9/16	8	12.7	1/2	115	4-1/2	340A-115CVB-2084	45067
		FB	7	14	9/16	7	14	9/16	115	4-1/2	340A-115CVB-2835	45431
		CON	8	12.7	1/2	9	12.7	1/2	115	4-1/2	340A-115CVC-4101	45575
		BAL	8	14	9/16	8	12.7	1/2	120	4-23/32	340A-120CVB-3682	45550
		BAL	9 **	12.7	1/2	11	12.7	1/2	127 *	5	340A-127CVB-2756	45074
		HEM	8	14	9/16	9	14	9/16	130 *	5-1/8	340A-130CV-3778	45149
		HEM / BAL	9 **	12.7	1/2	12	12.7	1/2	130 *	5-1/8	340A-130CV-4103	45641
		BAL	9 **	12.7	1/2	12	12.7	1/2	130 *	5-1/8	340A-130CVB-3779	45150
		HEM	8	16	5/8	9	14	9/16	140 *	5-1/2	340A-140CV-3763	45151
		FB	9 **	14	9/16	12	12	15/32	140 *	5-1/2	340A-140CVB-2839	45152
		FB	8	16	5/8	9	14	9/16	145 *	5-3/4	340A-145CVB-2840	45328
		8 SPLINES 2 FRONT FLUSHING HOLES ** 3 FRONT FLUSHING HOLES										
12		CARBIDE DIMENSIONS						DIAMETER		PART NUMBER		
		CARBIDE DESIGN	GAUGE NO. X DIA.			FRONT NO. X DIA.			D			
			No.	mm	In.	No.	mm	In.	mm	In.	USA	AUSTRIA
		FB	8	13	1/2	8	12	15/32	110	4-5/16	340A-110HHCVB-4098	45539
		FB	8	13	1/2	8	12	15/32	115	4-1/2	340A-115HHCVB-3160	45499
13	340A BLOW TUBE	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
		8 SPLINES 2 FRONT FLUSHING HOLES										
13	340A BLOW TUBE										PART NUMBER	
											USA	
											AUSTRIA	
									BT340A-1003			
									45094			

CARBIDE PROFILE DESIGNS

					
Hemispherical	Hemispherical MultiPoint	(Semi) Ballistic	(Semi) Ballistic MultiPoint	CrownPoint	Conical

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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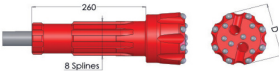
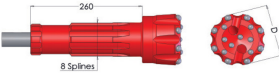
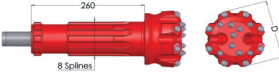
* = No shank breakage warranty

DOWN-THE-HOLE (DTH) BITS

INGERSOLL-RAND



SHANK: 350R

NO.	FLAT FACE	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
14	 8 SPLINES 2 FRONT FLUSHING HOLES ** 3 FRONT FLUSHING HOLES	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	9 **	16	5/8	9	14	9/16	135	5-5/16	350R-135FF-4301	45566
		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	145	5-3/4	350R-145FF-4300	45664
		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	150	5-7/8	350R-150FF-2201	45184
		HEM	9 **	16	5/8	9	14	9/16	150	5-7/8	350R-150FF-4302	45573
		HEM	8	16	5/8	8	16	5/8	152 *	6	350R-152FF-2202	45344
		HEM	8	16	5/8	10	16	5/8	165 *	6-1/2	350R-165FF-4031	45673
NO.	CONCAVE	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
15	 8 SPLINES 2 FRONT FLUSHING HOLES ** 3 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	9 **	16	5/8	9	14	9/16	130	5-1/8	350R-130CC-4304	45675
		HEM / BAL	8	16	5/8	8	14	9/16	135	5-5/16	350R-135CC-4105	45548
		HEM / BAL	9 **	14	9/16	9	14	9/16	135	5-5/16	350R-135CC-4305	45702
		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	150	5-7/8	350R-150CC-2203	45345
		HEM / BAL	8	16	5/8	9	14	9/16	150	5-7/8	350R-150CC-4303	45643
		HEM / BAL	9 **	16	5/8	10	14	9/16	150	5-7/8	350R-150CC-4306	45695
		HEM	8	16	5/8	9	16	5/8	152 *	6	350R-152CC-737	45346
		HEM / BAL	8	16	5/8	9	16	5/8	152 *	6	350R-152CC-3393	45559
		HEM	8	16	5/8	9	16	5/8	165 *	6-1/2	350R-165CC-2188	45529
		HEM	10	16	5/8	12	16	5/8	180 *	7	350R-180CC-2404	45410
NO.	CONVEX	CARBIDE DIMENSIONS							DIAMETER		PART NUMBER	
		CARBIDE DESIGN	GAUGE NO. X DIA.			FRONT NO. X DIA.			D		USA	
			No.	mm	In.	No.	mm	In.	mm	In.		AUSTRIA
16	 8 SPLINES 2 FRONT FLUSHING HOLES	BAL	8	16	5/8	6	16	5/8	127	5	350R-127CVB-4299	45520
		BAL	8	16	5/8	8	16	5/8	140	5-1/2	350R-140CVB-2843	45403
		BAL	8	16	5/8	9	14	9/16	146	5-3/4	350R-146CVB-2844	45394
NO.	350R BLOW TUBE										PART NUMBER	
											USA	AUSTRIA
											BT350R-1004	45101

CARBIDE PROFILE DESIGNS

					
Hemispherical	Hemispherical MultiPoint	(Semi) Ballistic	(Semi) Ballistic MultiPoint	CrownPoint	Conical

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

* = No shank breakage warranty

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



SHANK: 360, SF6

NO.	FLAT FACE	CARBIDE DIMENSIONS						DIAMETER		PART NUMBER		
		CARBIDE DESIGN	GAUGE NO. X DIA.			FRONT NO. X DIA.			D			
			No.	mm	In.	No.	mm	In.	mm	In.	USA	AUSTRIA
18		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 / BAL	9 **	16	5/8	10	16	5/8	178 *	7	360-178FF-3788	45626
		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
NO.	CONCAVE	CARBIDE DIMENSIONS						DIAMETER		PART NUMBER		
		CARBIDE DESIGN	GAUGE NO. X DIA.			FRONT NO. X DIA.			D			
			No.	mm	In.	No.	mm	In.	mm	In.	USA	AUSTRIA
19		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
		BAL	10	16	5/8	10	16	5/8	172	6-3/4	360-172CCB-1891	45435
		HEM	9 **	19	3/4	10	19	3/4	178 *	7	360-178CC-3450	45637
		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
		NO.	360 BLOW TUBE									PART NUMBER
								USA	AUSTRIA			
								BT360-1005	45095			

CARBIDE PROFILE DESIGNS

Hemispherical	Hemispherical MultiPoint	(Semi) Ballistic	(Semi) Ballistic MultiPoint	CrownPoint	Conical

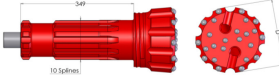
HEM = Hemispherical Carbide; BAL = (Semi) Ballistic Carbide; CP = CrownPoint carbide; CON = Conical carbide; FB = Full Ballistic Carbide; MP = MultiPoint carbide, on request
Note: Some button bits may not be offered with a particular carbide design shown above.

* = No shank breakage warranty

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



SHANK: 380

NO.	FLAT FACE	CARBIDE DIMENSIONS						DIAMETER		PART NUMBER		
		CARBIDE DESIGN	GAUGE NO. X DIA.			FRONT NO. X DIA.			D		USA	
			No.	mm	In.	No.	mm	In.	mm	In.	AUSTRIA	
21		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	
			No.	mm	In.	No.	mm	In.	mm	In.	AUSTRIA	
		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



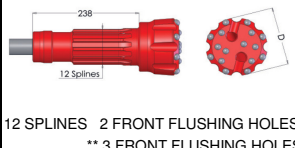
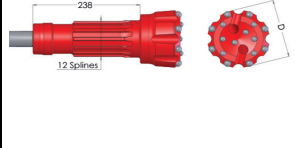
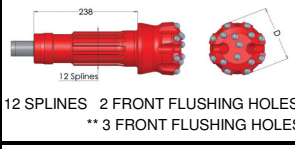
HEM = Hemispherical Carbide; BAL = (Semi) Ballistic Carbide; CP = CrownPoint carbide; CON = Conical carbide; FB = Full Ballistic Carbide; MP = MultiPoint carbide, on request
 Note: Some button bits may not be offered with a particular carbide design shown above.

* = No shank breakage warranty

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



SHANK: QL5/QL50

NO.	FLAT FACE	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
1		HEM	8	16	5/8	8	12.7	1/2	130	5-1/8	QL5-130FF-2066	45312
		HEM	9 **	16	5/8	9	14	9/16	135	5-5/16	QL5-135FF-4309	45683
		HEM	8	16	5/8	8	14	9/16	140	5-1/2	QL5-140FF-2067	45314
		HEM	8	16	5/8	10	14	9/16	140	5-1/2	QL5-140FF-4308	45569
		HEM	9 **	16	5/8	9	14	9/16	140	5-1/2	QL5-140FF-3481	45681
		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
		HEM	8	16	5/8	10	16	5/8	165 *	6-1/2	QL5-165FF-3384	45560
NO.	CONCAVE	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
2		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
		HEM / BAL	9 **	16	5/8	9	14	9/16	130	5-1/8	QL5-130CC-4310	45669
		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 / BAL	9 **	14	9/16	9	14	9/16	135	5-5/16	QL5-135CC-4311	45630
		HEM	9 **	14	9/16	9	14	9/16	135	5-5/16	QL5-135CC-4312	45631
		HEM	8	16	5/8	8	14	9/16	140	5-1/2	QL5-140CC-2071	45315
		HEM / BAL	8	16	5/8	8	14	9/16	140	5-1/2	QL5-140CC-2801	45564
		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 / BAL	9 **	16	5/8	9	14	9/16	150	5-7/8	QL5-150CC-4313	45670
		HEM	8	16	5/8	9	16	5/8	152 *	6	QL5-152CC-2236	45379
		HEM / BAL	9 **	16	5/8	9	16	5/8	152 *	6	QL5-152CC-3313	45544
		HEM	8	16	5/8	9	16	5/8	165 *	6-1/2	QL5-165CC-2786	45530
		HEM	10	16	5/8	12	16	5/8	180 *	7	QL5-180CC-3305	45541
NO.	CONVEX	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
3		BAL	8	16	5/8	7	16	5/8	130	5-1/8	QL5-130CVB-3027	45506
		BAL	9 **	14	9/16	9	16	5/8	130	5-1/8	QL5-130CVB-3325	45547
		BAL	8	16	5/8	8	16	5/8	135	5-5/16	QL5-135CVB-3026	45507
		BAL	9 **	14	9/16	10	14	9/16	135	5-5/16	QL5-135CVB-4307	45662
		BAL	8	16	5/8	8	16	5/8	140	5-1/2	QL5-140CVB-2901	45522
		BAL	9 **	14	9/16	10	14	9/16	140	5-1/2	QL5-140CVB-3381	45557
4	QL5/QL50 BLOW TUBE										PART NUMBER	
											USA	AUSTRIA
											BTQL5-1013	45116

CARBIDE PROFILE DESIGNS

					
Hemispherical	Hemispherical MultiPoint	(Semi) Ballistic	(Semi) Ballistic MultiPoint	CrownPoint	Conical

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.

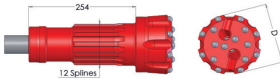
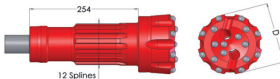
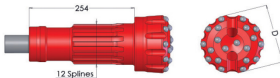
* = No shank breakage warranty

DOWN-THE-HOLE (DTH) BITS

INGERSOLL-RAND - QL SERIES



SHANK: QL6/QL60

NO.	FLAT FACE	CARBIDE DIMENSIONS						DIAMETER		PART NUMBER			
		CARBIDE	GAUGE NO. X DIA.			FRONT NO. X DIA.			D				
		DESIGN	No.	mm	In.	No.	mm	In.	mm	In.	USA	AUSTRIA	
5		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	
NO.	CONCAVE	CARBIDE DIMENSIONS						DIAMETER		PART NUMBER			
		CARBIDE	GAUGE NO. X DIA.			FRONT NO. X DIA.			D				
6		DESIGN	No.	mm	In.	No.	mm	In.	mm	In.	USA	AUSTRIA	
		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	
		NO.	CONCAVE - CONVEX	CARBIDE DIMENSIONS						DIAMETER		PART NUMBER	
CARBIDE	GAUGE NO. X DIA.			FRONT NO. X DIA.			D						
7		DESIGN	No.	mm	In.	No.	mm	In.	mm	In.	USA	AUSTRIA	
		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			
NO.	QL6/QL60 BLOW TUBE									PART NUMBER			
										USA	AUSTRIA		
8										BTQL6-1014	45097		

CARBIDE PROFILE DESIGNS

Hemispherical	Hemispherical MultiPoint	(Semi) Ballistic	(Semi) Ballistic MultiPoint	CrownPoint	Conical

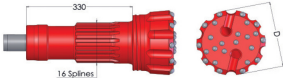
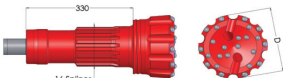
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 Note: Some button bits may not be offered with a particular carbide design shown above.
 * = No shank breakage warranty

DOWN-THE-HOLE (DTH) BITS

INGERSOLL-RAND - QL SERIES



SHANK: QL8/QL80

NO.	FLAT FACE  16 SPLINES 2 FRONT FLUSHING HOLES	CARBIDE DIMENSIONS						DIAMETER		PART NUMBER		
		CARBIDE	GAUGE NO. X DIA.			FRONT NO. X DIA.			D		PART NUMBER	
		DESIGN	No.	mm	In.	No.	mm	In.	mm	In.	USA	AUSTRIA
9		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  16 SPLINES 2 FRONT FLUSHING HOLES	CARBIDE DIMENSIONS						DIAMETER		PART NUMBER		
		CARBIDE	GAUGE NO. X DIA.			FRONT NO. X DIA.			D		PART NUMBER	
		DESIGN	No.	mm	In.	No.	mm	In.	mm	In.	USA	AUSTRIA
10		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

Hemispherical	Hemispherical MultiPoint	(Semi) Ballistic	(Semi) Ballistic MultiPoint	CrownPoint	Conical

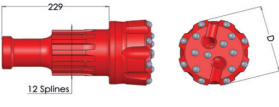
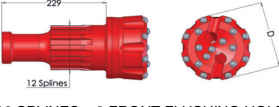
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 * = No shank breakage warranty

DOWN-THE-HOLE (DTH) BITS

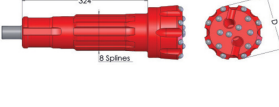
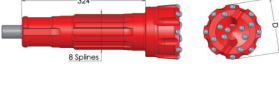
SANDVIK - MISSION



SHANK: MI6, M60

NO.	FLAT FACE	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	
1	 12 SPLINES 2 FRONT FLUSHING HOLES	HEM	8	16	5/8	8	16	5/8	156	6-1/8	MI6-156FF-2370	45708
		HEM	10	19	3/4	14	16	5/8	203 *	8	MI6-203FF-2371	45709
NO.	CONCAVE	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	
2	 12 SPLINES 2 FRONT FLUSHING HOLES	HEM	8	16	5/8	9	16	5/8	156	6-1/8	MI6-156CC-2002	45356
		HEM	8	16	5/8	9	16	5/8	165	6-1/2	MI6-165CC-1976	45358
		HEM	8	16	5/8	9	16	5/8	172	6-3/4	MI6-172CC-2024	45361

SHANK: 5315, SD6

NO.	FLAT FACE	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	
3	 8 SPLINES 2 FRONT FLUSHING HOLES	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	
			No.	mm	In.	No.	mm	In.	mm	In.	AUSTRIA	
4	 8 SPLINES 2 FRONT FLUSHING HOLES	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

CARBIDE PROFILE DESIGNS

					
Hemispherical	Hemispherical MultiPoint	(Semi) Ballistic	(Semi) Ballistic MultiPoint	CrownPoint	Conical

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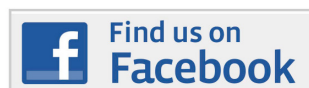
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