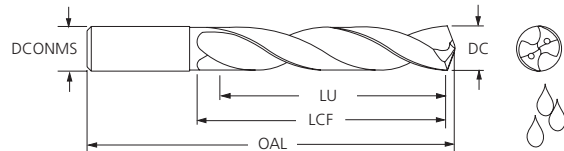
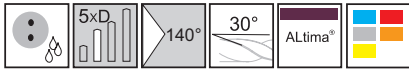


Twister XD® 5xD - Series 2XDCR

Designed for high performance drilling in a broad range of materials.



- Usable length (LU) = LCF - (1.5 x DC).

ALtima®		DC (h7)				DCONMS (h6)		OAL		LCF	
Tool No.	EDP	Inch	Letter/ Wire	mm	Decimal	Inch	mm	Inch	mm	Inch	mm
2XDCR1181A	02582			3.0	.1181		3.0		75		24
2XDCR1200A	02584		31		.1200	1/8		3.00		1.125	
2XDCR1220A	02585			3.1	.1220		4.0		80		32
2XDCR1250A	02586	1/8			.1250	1/8		3.00		1.125	
2XDCR1260A	02590			3.2	.1260		4.0		80		32
2XDCR1285A	02592		30		.1285	5/32		3.15		1.260	
2XDCR1299A	02594			3.3	.1299		4.0		80		32
2XDCR1339A	02596			3.4	.1339		4.0		80		32
2XDCR1360A	02598		29		.1360	5/32		3.15		1.2600	
2XDCR1378A	02600			3.5	.1378		4.0		80		32
2XDCR1406A	02602	9/64			.1406	5/32		3.15		1.260	
2XDCR1417A	02603			3.6	.1417		4.0		80		32
2XDCR1457A	02604			3.7	.1457		4.0		80		32
2XDCR1496A	02606			3.8	.1496		4.0		80		32
2XDCR1520A	02605		24		.1520	5/32		3.15		1.260	
2XDCR1535A	02607			3.9	.1535		4.0		80		32
2XDCR1562A	02608	5/32			.1562	5/32		3.15		1.260	
2XDCR1575A	02610			4.0	.1575		4.0		80		32
2XDCR1590A	02611		21		.1590	3/16		3.23		1.500	
2XDCR1614A	04012			4.1	.1614		5.0		82		38
2XDCR1654A	02612			4.2	.1654		5.0		82		38
2XDCR1693A	02613			4.3	.1693		5.0		82		38
2XDCR1719A	02614	11/64			.1719	3/16		3.23		1.500	
2XDCR1732A	02615			4.4	.1732		5.0		82		38
2XDCR1772A	02616			4.5	.1772		5.0		82		38
2XDCR1811A	02618			4.6	.1811		5.0		82		38
2XDCR1850A	02619			4.7	.1850		5.0		82		38
2XDCR1875A	02620	3/16			.1875	3/16		3.23		1.500	
2XDCR1890A	02622			4.8	.1890		5.0		82		38
2XDCR1929A	02624			4.9	.1929		5.0		82		38
2XDCR1968A	02626			5.0	.1968		5.0		82		38

Inch	
DC	Tolerance (h7)
.0000 - .1181	+0/- .00039
.1182 - .2362	+0/- .00047
.2363 - .3937	+0/- .00059
.3938 - .7087	+0/- .00071
.7088 - .7500	+0/- .00083

Inch	
DCONMS	Tolerance (h6)
.0000 - .1181	+0/- .00024
.1182 - .2362	+0/- .00031
.2363 - .3937	+0/- .00035
.3938 - .7087	+0/- .00043
.7088 - .7500	+0/- .00051

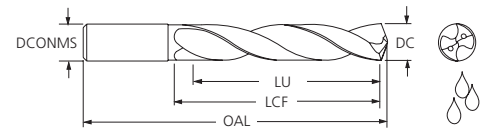
Metric (mm)	
DC	Tolerance (h7)
0 - 3.0	+0/- .010
3.01 - 6.0	+0/- .012
6.01 - 10.0	+0/- .015
10.01 - 18.0	+0/- .018
18.01 - 20.0	+0/- .021

Metric (mm)	
DCONMS	Tolerance (h6)
0 - 3.0	+0/- .006
3.01 - 6.0	+0/- .008
6.01 - 10.0	+0/- .009
10.01 - 18.0	+0/- .011
18.01 - 20.0	+0/- .013



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Twister XD® 5xD - Series 2XDCR *Continued*



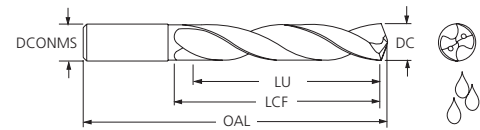
ALtima®		DC (h7)				DCONMS (h6)		OAL		LCF	
Tool No.	EDP	Inch	Letter/ Wire	mm	Decimal	Inch	mm	Inch	mm	Inch	mm
2XDCR2008A	02628			5.1	.2008		6.0		82		40
2XDCR2031A	02630	13/64			.2031	15/64		3.23		1.580	
2XDCR2047A	02632			5.2	.2047		6.0		82		40
2XDCR2087A	02634			5.3	.2087		6.0		82		40
2XDCR2126A	02636			5.4	.2126		6.0		82		40
2XDCR2165A	02638			5.5	.2165		6.0		82		40
2XDCR2187A	02640	7/32			.2187	15/64		3.23		1.580	
2XDCR2210A	02642		2		.2210	15/64		3.23		1.580	
2XDCR2244A	02644			5.7	.2244		6.0		82		40
2XDCR2283A	02646			5.8	.2283		6.0		82		40
2XDCR2323A	02648			5.9	.2323		6.0		82		40
2XDCR2344A	02650	15/64			.2344	15/64		3.23		1.580	
2XDCR2362A	02652			6.0	.2362		6.0		82		40
2XDCR2402A	02654			6.1	.2402		8.0		91		48
2XDCR2420A	02656		C		.2420	1/4		3.30		1.740	
2XDCR2441A	02658			6.2	.2441		8.0		91		48
2XDCR2460A	02660		D		.2460	1/4		3.30		1.740	
2XDCR2480A	02662			6.3	.2480		8.0		91		48
2XDCR2500A	02664	1/4			.2500	1/4		3.30		1.740	
2XDCR2520A	02666			6.4	.2520		8.0		91		48
2XDCR2559A	02668			6.5	.2559		8.0		91		48
2XDCR2570A	02670		F		.2570	5/16		3.58		1.890	
2XDCR2598A	02671			6.6	.2598		8.0		91		48
2XDCR2610A	02672		G		.2610	5/16		3.58		1.890	
2XDCR2638A	02673			6.7	.2638		8.0		91		48
2XDCR2656A	02674	17/64			.2656	5/16		3.58		1.890	
2XDCR2677A	02676			6.8	.2677		8.0		91		48
2XDCR2717A	02678			6.9	.2717		8.0		91		48
2XDCR2756A	02680			7.0	.2756		8.0		91		48
2XDCR2795A	02681			7.1	.2795		8.0		91		48
2XDCR2812A	02682	9/32			.2812	5/16		3.58		1.890	
2XDCR2835A	02684			7.2	.2835		8.0		91		48
2XDCR2874A	02685			7.3	.2874		8.0		91		48
2XDCR2913A	02686			7.4	.2913		8.0		91		48
2XDCR2953A	02688			7.5	.2953		8.0		91		48
2XDCR2969A	02690	19/64			.2969	5/16		3.58		1.890	



Altima®		DC (h7)				DCONMS (h6)		OAL		LCF	
Tool No.	EDP	Inch	Letter/ Wire	mm	Decimal	Inch	mm	Inch	mm	Inch	mm
2XDCR2992A	02692			7.6	.2992		8.0		91		48
2XDCR3031A	02694			7.7	.3031		8.0		91		48
2XDCR3071A	02696			7.8	.3071		8.0		91		48
2XDCR3110A	02697			7.9	.3110		8.0		91		48
2XDCR3125A	02698	5/16			.3125	5/16		3.58		1.890	
2XDCR3150A	02700			8.0	.3150		8.0		91		48
2XDCR3189A	02702			8.1	.3189		10.0		103		55
2XDCR3228A	02704			8.2	.3228		10.0		103		55
2XDCR3268A	02706			8.3	.3268		10.0		103		55
2XDCR3281A	02708	21/64			.3281	25/64		4.06		2.170	
2XDCR3307A	02707			8.4	.3307		10.0		103		55
2XDCR3320A	02709		Q		.3320	25/64		4.06		2.170	
2XDCR3346A	02710			8.5	.3346		10.0		103		55
2XDCR3386A	02711			8.6	.3386		10.0		103		55
2XDCR3425A	04013			8.7	.3425		10.0		103		55
2XDCR3438A	02712	11/32			.3438	25/64		4.06		2.170	
2XDCR3465A	02714			8.8	.3465		10.0		103		55
2XDCR3504A	02716			8.9	.3504		10.0		103		55
2XDCR3543A	02718			9.0	.3543		10.0		103		55
2XDCR3583A	02719			9.1	.3583		10.0		103		55
2XDCR3594A	02720	23/64			.3594	25/64		4.06		2.170	
2XDCR3622A	02722			9.2	.3622		10.0		103		55
2XDCR3642A	02724			9.25	.3642		10.0		103		55
2XDCR3661A	02726			9.3	.3661		10.0		103		55
2XDCR3701A	02727			9.4	.3701		10.0		103		55
2XDCR3740A	02728			9.5	.3740		10.0		103		55
2XDCR3750A	02730	3/8			.3750	25/64		4.06		2.170	
2XDCR3780A	02731			9.6	.3780		10.0		103		55
2XDCR3819A	02732			9.7	.3819		10.0		103		55
2XDCR3858A	02734			9.8	.3858		10.0		103		55
2XDCR3898A	02735			9.9	.3898		10.0		103		55
2XDCR3906A	02736	25/64			.3906	25/64		4.06		2.170	
2XDCR3937A	02738			10.0	.3937		10.0		103		55
2XDCR3976A	02739			10.1	.3976		12.0		120		60
2XDCR4016A	02740			10.2	.4016		12.0		120		60
2XDCR4055A	02741			10.3	.4055		12.0		120		60
2XDCR4062A	02742	13/32			.4062	15/32		4.72		2.360	
2XDCR4094A	02743			10.4	.4094		12.0		120		60
2XDCR4134A	02744			10.5	.4134		12.0		120		60
2XDCR4173A	02745			10.6	.4173		12.0		120		60
2XDCR4213A	04014			10.7	.4213		12.0		120		60
2XDCR4219A	02746	27/64			.4219	15/32		4.72		2.360	
2XDCR4252A	02747			10.8	.4252		12.0		120		60
2XDCR4291A	04015			10.9	.4291		12.0		120		60



Twister XD® 5xD - Series 2XDCR *Continued*



ALtima®		DC (h7)				DCONMS (h6)		OAL		LCF	
Tool No.	EDP	Inch	Letter/ Wire	mm	Decimal	Inch	mm	Inch	mm	Inch	mm
2XDCR4331A	02748			11.0	.4331		12.0		120		60
2XDCR4370A	02749			11.1	.4370		12.0		120		66
2XDCR4375A	02750	7/16			.4375	15/32		4.72		2.600	
2XDCR4409A	02752			11.2	.4409		12.0		120		66
2XDCR4449A	02753			11.3	.4449		12.0		120		66
2XDCR4488A	04016			11.4	.4488		12.0		120		66
2XDCR4527A	02754			11.5	.4527		12.0		120		66
2XDCR4567A	02755			11.6	.4567		12.0		120		66
2XDCR4606A	02756			11.7	.4606		12.0		120		66
2XDCR4646A	02757			11.8	.4646		12.0		120		66
2XDCR4685A	04017			11.9	.4685		12.0		120		66
2XDCR4688A	02758	15/32			.4688	15/32		4.72		2.600	
2XDCR4724A	02760			12.0	.4724		12.0		120		66
2XDCR4764A	02762			12.1	.4764		14.0		126		72
2XDCR4844A	02764	31/64			.4844	1/2		4.75		2.830	
2XDCR4921A	02766			12.5	.4921		14.0		126		72
2XDCR5000A	02768	1/2			.5000	1/2		4.75		2.830	
2XDCR5039A	02770			12.8	.5039		14.0		126		72
2XDCR5051A	02769			12.83	.5051		14.0		126		72
2XDCR5079A	02771			12.9	.5079		14.0		126		72
2XDCR5118A	02772			13.0	.5118		14.0		126		72
2XDCR5156A	02774	33/64			.5156	35/64		5.28		3.030	
2XDCR5312A	02775	17/32			.5312	35/64		5.28		3.030	
2XDCR5315A	02776			13.5	.5315		14.0		134		77
2XDCR5394A	02778			13.7	.5394		14.0		134		77
2XDCR5469A	02780	35/64			.5469	35/64		5.28		3.030	
2XDCR5512A	02782			14.0	.5512		14.0		134		77
2XDCR5625A	02784	9/16			.5625	5/8		5.51		3.150	
2XDCR5709A	02786			14.5	.5709		16.0		140		80
2XDCR5787A	02788			14.7	.5787		16.0		140		80
2XDCR5905A	02790			15.0	.5905		16.0		140		80
2XDCR5938A	02792	19/32			.5938	5/8		5.75		3.230	
2XDCR6024A	02793			15.3	.6024		16.0		146		82
2XDCR6102A	02794			15.5	.6102		16.0		146		82
2XDCR6181A	02796			15.7	.6181		16.0		146		82
2XDCR6250A	02798	5/8			.6250	5/8		5.75		3.230	



ALtima®		DC (h7)				DCONMS (h6)		OAL		LCF	
Tool No.	EDP	Inch	Letter/ Wire	mm	Decimal	Inch	mm	Inch	mm	Inch	mm
2XDCR6299A	02800			16.0	.6299		16.0		146		82
2XDCR6331A	02802			16.08	.6331		18.0		158		90
2XDCR6417A	02803			16.3	.6417		18.0		158		90
2XDCR6496A	02804			16.5	.6496		18.0		158		90
2XDCR6562A	02806	21/32			.6562	45/64		6.22		3.540	
2XDCR6693A	02808			17.0	.6693		18.0		158		90
2XDCR6875A	02810	11/16			.6875	45/64		6.22		3.740	
2XDCR6890A	02812			17.5	.6890		18.0		158		95
2XDCR7087A	02814			18.0	.7087		18.0		158		95
2XDCR7283A	02816			18.5	.7283		20.0		160		100
2XDCR7500A	02818	3/4			.7500	3/4		6.3		3.940	
2XDCR7543A	02820			19.16	.7543		20.0		160		100
2XDCR7579A	02822			19.25	.7579		20.0		160		100
2XDCR7598A	02824			19.3	.7598		20.0		160		100
2XDCR7677A	02826			19.5	.7677		20.0		160		100
2XDCR7874A	02828			20.0	.7874		20.0		160		100



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Twister XD® Drills
Series 2XDCR