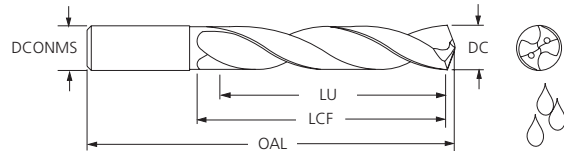
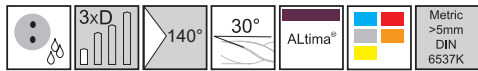


Twister XD® 3xD - Series 2XDCS

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
2XDCS1181A	04400			3.0	.1181		3.0		57		16
2XDCS1200A	04402		31		.1200	1/8		2.250		.750	
2XDCS1220A	04404			3.1	.1220		4.0		63		22
2XDCS1250A	04406	1/8			.1250	1/8		2.250		.750	
2XDCS1260A	04408			3.2	.1260		4.0		63		22
2XDCS1285A	04410		30		.1285	5/32		2.500		.875	
2XDCS1299A	04412			3.3	.1299		4.0		63		22
2XDCS1339A	04414			3.4	.1339		4.0		63		22
2XDCS1360A	04416		29		.1360	5/32		2.500		.875	
2XDCS1378A	04418			3.5	.1378		4.0		63		22
2XDCS1406A	04420	9/64			.1406	5/32		2.500		.875	
2XDCS1417A	04422			3.6	.1417		4.0		63		22
2XDCS1457A	04424			3.7	.1457		4.0		63		22
2XDCS1496A	04426			3.8	.1496		4.0		63		22
2XDCS1520A	04428		24		.1520	5/32		2.500		.875	
2XDCS1535A	04430			3.9	.1535		4.0		63		22
2XDCS1562A	04432	5/32			.1562	5/32		2.500		.875	
2XDCS1575A	04434			4.0	.1575		4.0		63		22
2XDCS1590A	04436		21		.1590	3/16		2.500		1.000	
2XDCS1614A	04438			4.1	.1614		5.0		63		26
2XDCS1654A	04440			4.2	.1654		5.0		63		26
2XDCS1693A	04442			4.3	.1693		5.0		63		26
2XDCS1719A	04444	11/64			.1719	3/16		2.500		1.000	
2XDCS1732A	04446			4.4	.1732		5.0		63		26
2XDCS1772A	04448			4.5	.1772		5.0		63		26
2XDCS1811A	04450			4.6	.1811		5.0		63		26
2XDCS1850A	04452			4.7	.1850		5.0		63		26
2XDCS1875A	04454	3/16			.1875	3/16		2.500		1.000	
2XDCS1890A	04456			4.8	.1890		5.0		63		26
2XDCS1929A	04458			4.9	.1929		5.0		63		26
2XDCS1968A	04460			5.0	.1968		5.0		63		26

Inch	
DC	Tolerance (h7)
.0000 - .1181	+0/- .00039
.1182 - .2362	+0/- .00047
.2363 - .3937	+0/- .00059
.3938 - .6250	+0/- .00071

Inch	
DCONMS	Tolerance (h6)
.0000 - .1181	+0/- .00024
.1182 - .2362	+0/- .00031
.2363 - .3937	+0/- .00035
.3938 - .6250	+0/- .00043

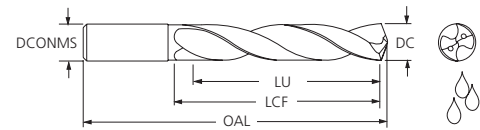
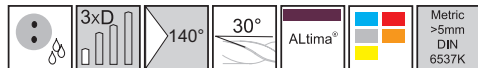
Metric (mm)	
DC	Tolerance (h7)
0 - 3.0	+0/- .010
3.01 - 6.0	+0/- .012
6.01 - 10.0	+0/- .015
10.01 - 16.0	+0/- .018

Metric (mm)	
DCONMS	Tolerance (h6)
0 - 3.0	+0/- .006
3.01 - 6.0	+0/- .008
6.01 - 10.0	+0/- .009
10.01 - 16.0	+0/- .011



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Twister XD® 3xD - Series 2XDCS *Continued*



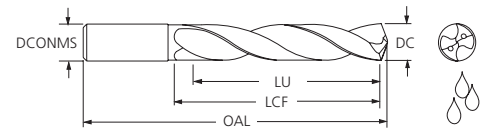
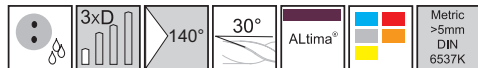
ALtima®		DC (h7)				DCONMS (h6)		OAL		LCF	
Tool No.	EDP	Inch	Letter/ Wire	mm	Decimal	Inch	mm	Inch	mm	Inch	mm
2XDCS2008A	04462			5.1	.2008		6.0		66		28
2XDCS2031A	04464	13/64			.2031	15/64		2.598		1.102	
2XDCS2047A	04466			5.2	.2047		6.0		66		28
2XDCS2087A	04468			5.3	.2087		6.0		66		28
2XDCS2126A	04470			5.4	.2126		6.0		66		28
2XDCS2165A	04472			5.5	.2165		6.0		66		28
2XDCS2187A	04474	7/32			.2187	15/64		2.598		1.102	
2XDCS2210A	04476		2		.2210	15/64		2.598		1.102	
2XDCS2244A	04478			5.7	.2244		6.0		66		28
2XDCS2283A	04480			5.8	.2283		6.0		66		28
2XDCS2323A	04482			5.9	.2323		6.0		66		28
2XDCS2344A	04484	15/64			.2344	15/64		2.598		1.102	
2XDCS2362A	04486			6.0	.2362		6.0		66		28
2XDCS2402A	04488			6.1	.2402		8.0		79		34
2XDCS2420A	04490		C		.2420	1/4		3.110		1.339	
2XDCS2441A	04492			6.2	.2441		8.0		79		34
2XDCS2460A	04494		D		.2460	1/4		3.110		1.339	
2XDCS2480A	04496			6.3	.2480		8.0		79		34
2XDCS2500A	04498	1/4			.2500	1/4		3.110		1.339	
2XDCS2520A	04500			6.4	.2520		8.0		79		34
2XDCS2559A	04502			6.5	.2559		8.0		79		34
2XDCS2570A	04504		F		.2570	5/16		3.110		1.339	
2XDCS2598A	04506			6.6	.2598		8.0		79		34
2XDCS2610A	04508		G		.2610	5/16		3.110		1.339	
2XDCS2638A	04510			6.7	.2638		8.0		79		34
2XDCS2656A	04512	17/64			.2656	5/16		3.110		1.339	
2XDCS2677A	04514			6.8	.2677		8.0		79		34
2XDCS2717A	04516			6.9	.2717		8.0		79		34
2XDCS2756A	04518			7.0	.2756		8.0		79		34
2XDCS2795A	04520			7.1	.2795		8.0		79		41
2XDCS2812A	04522	9/32			.2812	5/16		3.110		1.614	
2XDCS2835A	04524			7.2	.2835		8.0		79		41
2XDCS2874A	04526			7.3	.2874		8.0		79		41
2XDCS2913A	04528			7.4	.2913		8.0		79		41
2XDCS2953A	04530			7.5	.2953		8.0		79		41
2XDCS2969A	04532	19/64			.2969	5/16		3.110		1.614	



Altima®		DC (h7)				DCONMS (h6)		OAL		LCF	
Tool No.	EDP	Inch	Letter/ Wire	mm	Decimal	Inch	mm	Inch	mm	Inch	mm
2XDCS2992A	04534			7.6	.2992		8.0		79		41
2XDCS3031A	04536			7.7	.3031		8.0		79		41
2XDCS3071A	04538			7.8	.3071		8.0		79		41
2XDCS3110A	04540			7.9	.3110		8.0		79		41
2XDCS3125A	04542	5/16			.3125	5/16		3.110		1.614	
2XDCS3150A	04544			8.0	.3150		8.0		79		41
2XDCS3189A	04546			8.1	.3189		10.0		89		47
2XDCS3228A	04548			8.2	.3228		10.0		89		47
2XDCS3268A	04550			8.3	.3268		10.0		89		47
2XDCS3281A	04552	21/64			.3281	25/64		3.504		1.850	
2XDCS3307A	04554			8.4	.3307		10.0		89		47
2XDCS3320A	04556		Q		.3320	25/64		3.504		1.850	
2XDCS3346A	04558			8.5	.3346		10.0		89		47
2XDCS3386A	04560			8.6	.3386		10.0		89		47
2XDCS3425A	04562			8.7	.3425		10.0		89		47
2XDCS3438A	04564	11/32			.3438	25/64		3.504		1.850	
2XDCS3465A	04566			8.8	.3465		10.0		89		47
2XDCS3504A	04568			8.9	.3504		10.0		89		47
2XDCS3543A	04570			9.0	.3543		10.0		89		47
2XDCS3583A	04572			9.1	.3583		10.0		89		47
2XDCS3594A	04574	23/64			.3594	25/64		3.504		1.850	
2XDCS3622A	04576			9.2	.3622		10.0		89		47
2XDCS3642A	04578			9.25	.3642		10.0		89		47
2XDCS3661A	04580			9.3	.3661		10.0		89		47
2XDCS3701A	04582			9.4	.3701		10.0		89		47
2XDCS3740A	04584			9.5	.3740		10.0		89		47
2XDCS3750A	04586	3/8			.3750	25/64		3.504		1.850	
2XDCS3780A	04588			9.6	.3780		10.0		89		47
2XDCS3819A	04590			9.7	.3819		10.0		89		47
2XDCS3858A	04592			9.8	.3858		10.0		89		47
2XDCS3898A	04594			9.9	.3898		10.0		89		47
2XDCS3906A	04596	25/64			.3906	25/64		3.504		1.850	
2XDCS3937A	04598			10.0	.3937		10.0		89		47
2XDCS3976A	04600			10.1	.3976		12.0		102		55
2XDCS4016A	04602			10.2	.4016		12.0		102		55
2XDCS4055A	04604			10.3	.4055		12.0		102		55
2XDCS4062A	04606	13/32			.4062	15/32		4.016		2.165	
2XDCS4094A	04608			10.4	.4094		12.0		102		55
2XDCS4134A	04610			10.5	.4134		12.0		102		55
2XDCS4173A	04612			10.6	.4173		12.0		102		55
2XDCS4213A	04614			10.7	.4213		12.0		102		55
2XDCS4219A	04616	27/64			.4219	15/32		4.016		2.165	
2XDCS4252A	04618			10.8	.4252		12.0		102		55
2XDCS4291A	04620			10.9	.4291		12.0		102		55



Twister XD® 3xD - Series 2XDCS *Continued*



ALtima®		DC (h7)				DCONMS (h6)		OAL		LCF	
Tool No.	EDP	Inch	Letter/ Wire	mm	Decimal	Inch	mm	Inch	mm	Inch	mm
2XDCS4331A	04622			11.0	.4331		12.0		102		55
2XDCS4370A	04624			11.1	.4370		12.0		102		55
2XDCS4375A	04626	7/16			.4375	15/32		4.016		2.165	
2XDCS4409A	04628			11.2	.4409		12.0		102		55
2XDCS4449A	04630			11.3	.4449		12.0		102		55
2XDCS4488A	04632			11.4	.4488		12.0		102		55
2XDCS4527A	04634			11.5	.4527		12.0		102		55
2XDCS4567A	04636			11.6	.4567		12.0		102		55
2XDCS4606A	04638			11.7	.4606		12.0		102		55
2XDCS4646A	04640			11.8	.4646		12.0		102		55
2XDCS4685A	04642			11.9	.4685		12.0		102		55
2XDCS4688A	04644	15/32			.4688	15/32		4.016		2.165	
2XDCS4724A	04646			12.0	.4724		12.0		102		55
2XDCS4764A	04648			12.1	.4764		14.0		107		60
2XDCS4844A	04650	31/64			.4844	1/2		4.213		2.362	
2XDCS4921A	04652			12.5	.4921		14.0		107		60
2XDCS5000A	04654	1/2			.5000	1/2		4.213		2.362	
2XDCS5039A	04656			12.8	.5039		14.0		107		60
2XDCS5051A	04658			12.83	.5051		14.0		107		60
2XDCS5079A	04660			12.9	.5079		14.0		107		60
2XDCS5118A	04662			13.0	.5118		14.0		107		60
2XDCS5156A	04664	33/64			.5156	35/64		4.213		2.362	
2XDCS5315A	04666			13.5	.5315		14.0		107		60
2XDCS5394A	04668			13.7	.5394		14.0		107		60
2XDCS5469A	04670	35/64			.5469	35/64		4.213		2.362	
2XDCS5512A	04672			14.0	.5512		14.0		107		60
2XDCS5625A	04674	9/16			.5625	5/8		4.528		2.559	
2XDCS5709A	04676			14.5	.5709		16.0		115		65
2XDCS5787A	04678			14.7	.5787		16.0		115		65
2XDCS5905A	04680			15.0	.5905		16.0		115		65
2XDCS5938A	04682	19/32			.5938	5/8		4.528		2.559	
2XDCS6024A	04684			15.3	.6024		16.0		115		65
2XDCS6102A	04686			15.5	.6102		16.0		115		65
2XDCS6181A	04688			15.7	.6181		16.0		115		65
2XDCS6250A	04690	5/8			.6250	5/8		4.528		2.559	
2XDCS6299A	04692			16.0	.6299		16.0		115		65

