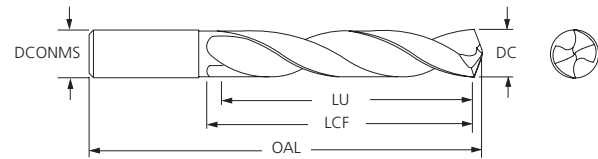
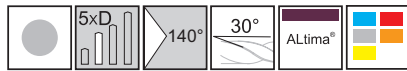


Twister XD® 5xD - Series 2XDSR

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



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

ALtma®		DC (h7)				DCONMS (h6)		OAL		LCF	
Tool No.	EDP	Inch	Letter/ Wire	mm	Decimal	Inch	mm	Inch	mm	Inch	mm
2XDSR0156A	22201	1/64			.0156	1/64		1.50		0.187	
2XDSR0197A	28001			0.5	.0197		0.50		26		6
2XDSR0236A	28006			0.6	.0236		0.60		26		7
2XDSR0256A	28011			0.65	.0256		0.65		26		8
2XDSR0312A	22221	1/32			.0312	1/32		1.50		0.375	
2XDSR0374A	28016			0.95	.0374		0.95		32		11
2XDSR0394A	28021			1.0	.0394		1.00		34		12
2XDSR0413A	28026			1.05	.0413		1.05		34		12
2XDSR0469A	22241	3/64			.0469	3/64		1.50		0.750	
2XDSR0492A	28031			1.25	.0492		1.25		38		16
2XDSR0590A	28036			1.5	.0590		1.50		40		18
2XDSR0625A	22256	1/16			.0625	1/16		1.50		0.750	
2XDSR0630A	28041			1.6	.0630		1.60		43		20
2XDSR0708A	28046			1.8	.0708		1.80		46		22
2XDSR0748A	28051			1.9	.0748		1.90		46		22
2XDSR0781A	22276	5/64			.0781	5/64		1.75		0.875	
2XDSR0787A	28056			2.0	.0787		2.00		49		24
2XDSR0807A	28058			2.05	.0807		2.05		49		24
2XDSR0906A	28061			2.3	.0906		2.30		53		27
2XDSR0938A	22291	3/32			.0938	3/32		2.00		1.000	
2XDSR0945A	28066			2.4	.0945		2.40		57		30
2XDSR0984A	28071			2.5	.0984		2.50		57		30
2XDSR1094A	22306	7/64			.1094	7/64		2.25		1.250	
2XDSR1142A	28073			2.9	.1142		2.90		61		33
2XDSR1181A	02346			3.0	.1181		3.00		63		24
2XDSR1200A	02348		31		.1200	1/8		2.50		1.125	
2XDSR1220A	02349			3.1	.1220		4.00		69		32
2XDSR1250A	02350	1/8			.1250	1/8		2.50		1.125	
2XDSR1260A	02352			3.2	.1260		4.00		69		32
2XDSR1285A	02354		30		.1285	5/32		2.75		1.260	
2XDSR1299A	02356			3.3	.1299		4.00		69		32

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

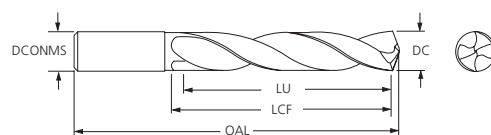


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ALtima®		DC (h7)				DCONMS (h6)		OAL		LCF	
Tool No.	EDP	Inch	Letter/ Wire	mm	Decimal	Inch	mm	Inch	mm	Inch	mm
2XDSR1339A	02358			3.4	.1339		4.00		69		32
2XDSR1360A	02360		29		.1360	5/32		2.75		1.260	
2XDSR1378A	02362			3.5	.1378		4.00		69		32
2XDSR1406A	02364	9/64			.1406	5/32		2.75		1.260	
2XDSR1417A	02365			3.6	.1417		4.00		69		32
2XDSR1457A	02366			3.7	.1457		4.00		69		32
2XDSR1496A	02368			3.8	.1496		4.00		69		32
2XDSR1520A	02367		24		.1520	5/32		2.75		1.260	
2XDSR1535A	02369			3.9	.1535		4.00		69		32
2XDSR1562A	02370	5/32			.1562	5/32		2.75		1.260	
2XDSR1575A	02372			4.0	.1575		4.00		69		32
2XDSR1590A	02373		21		.1590	3/16		3.15		1.500	
2XDSR1614A	04006			4.1	.1614		5.00		80		38
2XDSR1654A	02374			4.2	.1654		5.00		80		38
2XDSR1693A	02375			4.3	.1693		5.00		80		38
2XDSR1719A	02376	11/64			.1719	3/16		3.15		1.500	
2XDSR1732A	02377			4.4	.1732		5.00		80		38
2XDSR1772A	02378			4.5	.1772		5.00		80		38
2XDSR1811A	02380			4.6	.1811		5.00		80		38
2XDSR1850A	02381			4.7	.1850		5.00		80		38
2XDSR1875A	02382	3/16			.1875	3/16		3.15		1.500	
2XDSR1890A	02384			4.8	.1890		5.00		80		38
2XDSR1929A	02386			4.9	.1929		5.00		80		38
2XDSR1968A	02388			5.0	.1968		5.00		80		38
2XDSR2008A	02390			5.1	.2008		6.00		82		40
2XDSR2031A	02392	13/64			.2031	15/64		3.23		1.580	
2XDSR2047A	02394			5.2	.2047		6.00		82		40
2XDSR2087A	02396			5.3	.2087		6.00		82		40
2XDSR2126A	02398			5.4	.2126		6.00		82		40
2XDSR2165A	02400			5.5	.2165		6.00		82		40
2XDSR2187A	02402	7/32			.2187	15/64		3.23		1.580	
2XDSR2210A	02404		2		.2210	15/64		3.23		1.580	
2XDSR2244A	02406			5.7	.2244		6.00		82		40
2XDSR2283A	02408			5.8	.2283		6.00		82		40
2XDSR2323A	02410			5.9	.2323		6.00		82		40
2XDSR2344A	02412	15/64			.2344	15/64		3.23		1.580	
2XDSR2362A	02414			6.0	.2362		6.00		82		40
2XDSR2402A	02416			6.1	.2402		8.00		91		48
2XDSR2420A	02418		C		.2420	1/4		3.25		1.740	
2XDSR2441A	02420			6.2	.2441		8.00		91		48
2XDSR2460A	02422		D		.2460	1/4		3.25		1.740	
2XDSR2480A	02424			6.3	.2480		8.00		91		48
2XDSR2500A	02426	1/4			.2500	1/4		3.25		1.740	



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



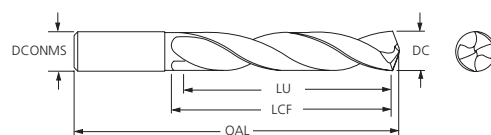
ALtima®		DC (h7)				DCONMS (h6)		OAL		LCF	
Tool No.	EDP	Inch	Letter/ Wire	mm	Decimal	Inch	mm	Inch	mm	Inch	mm
2XDSR2520A	02428			6.4	.2520		8.00		91		48
2XDSR2559A	02430			6.5	.2559		8.00		91		48
2XDSR2570A	02432		F		.2570	5/16		3.58		1.890	
2XDSR2598A	02433			6.6	.2598		8.00		91		48
2XDSR2610A	02434		G		.2610	5/16		3.58		1.890	
2XDSR2638A	02435			6.7	.2638		8.00		91		48
2XDSR2656A	02436	17/64			.2656	5/16		3.58		1.890	
2XDSR2677A	02438			6.8	.2677		8.00		91		48
2XDSR2717A	02440			6.9	.2717		8.00		91		48
2XDSR2756A	02442			7.0	.2756		8.00		91		48
2XDSR2795A	02443			7.1	.2795		8.00		91		48
2XDSR2812A	02444	9/32			.2812	5/16		3.58		1.890	
2XDSR2835A	02446			7.2	.2835		8.00		91		48
2XDSR2874A	02447			7.3	.2874		8.00		91		48
2XDSR2913A	02448			7.4	.2913		8.00		91		48
2XDSR2953A	02450			7.5	.2953		8.00		91		48
2XDSR2969A	02452	19/64			.2969	5/16		3.58		1.890	
2XDSR2992A	02454			7.6	.2992		8.00		91		48
2XDSR3031A	02456			7.7	.3031		8.00		91		48
2XDSR3071A	02458			7.8	.3071		8.00		91		48
2XDSR3110A	02459			7.9	.3110		8.00		91		48
2XDSR3125A	02460	5/16			.3125	5/16		3.58		1.890	
2XDSR3150A	02480			8.0	.3150		8.00		91		48
2XDSR3189A	02482			8.1	.3189		10.00		103		55
2XDSR3228A	02484			8.2	.3228		10.00		103		55
2XDSR3268A	02486			8.3	.3268		10.00		103		55
2XDSR3281A	02488	21/64			.3281	25/64		4.06		2.170	
2XDSR3307A	02487			8.4	.3307		10.00		103		55
2XDSR3320A	02489		Q		.3320	25/64		4.06		2.170	
2XDSR3346A	02490			8.5	.3346		10.00		103		55
2XDSR3386A	02491			8.6	.3386		10.00		103		55
2XDSR3425A	04007			8.7	.3425		10.00		103		55
2XDSR3438A	02492	11/32			.3438	25/64		4.06		2.170	
2XDSR3465A	02494			8.8	.3465		10.00		103		55
2XDSR3504A	02496			8.9	.3504		10.00		103		55
2XDSR3543A	02498			9.0	.3543		10.00		103		55



Altima®		DC (h7)				DCONMS (h6)		OAL		LCF	
Tool No.	EDP	Inch	Letter/ Wire	mm	Decimal	Inch	mm	Inch	mm	Inch	mm
2XDSR3583A	02499			9.1	.3583		10.00		103		55
2XDSR3594A	02500	23/64			.3594	25/64		4.06		2.170	
2XDSR3622A	02502			9.2	.3622		10.00		103		55
2XDSR3642A	02504			9.25	.3642		10.00		103		55
2XDSR3661A	02506			9.3	.3661		10.00		103		55
2XDSR3701A	02507			9.4	.3701		10.00		103		55
2XDSR3740A	02508			9.5	.3740		10.00		103		55
2XDSR3750A	02510	3/8			.3750	25/64		4.06		2.170	
2XDSR3780A	02511			9.6	.3780		10.00		103		55
2XDSR3819A	02512			9.7	.3819		10.00		103		55
2XDSR3858A	02514			9.8	.3858		10.00		103		55
2XDSR3898A	02515			9.9	.3898		10.00		103		55
2XDSR3906A	02516	25/64			.3906	25/64		4.06		2.170	
2XDSR3937A	02518			10.0	.3937		10.00		103		55
2XDSR3976A	02519			10.1	.3976		12.00		120		60
2XDSR4016A	02520			10.2	.4016		12.00		120		60
2XDSR4055A	02521			10.3	.4055		12.00		120		60
2XDSR4062A	02522	13/32			.4062	15/32		4.72		2.360	
2XDSR4094A	02523			10.4	.4094		12.00		120		60
2XDSR4134A	02524			10.5	.4134		12.00		120		60
2XDSR4173A	02525			10.6	.4173		12.00		120		60
2XDSR4213A	04008			10.7	.4213		12.00		120		60
2XDSR4219A	02526	27/64			.4219	15/32		4.72		2.360	
2XDSR4252A	02527			10.8	.4252		12.00		120		60
2XDSR4291A	04009			10.9	.4291		12.00		120		60
2XDSR4331A	02528			11.0	.4331		12.00		120		60
2XDSR4370A	02529			11.1	.4370		12.00		120		66
2XDSR4375A	02530	7/16			.4375	15/32		4.72		2.600	
2XDSR4409A	02532			11.2	.4409		12.00		120		66
2XDSR4449A	02533			11.3	.4449		12.00		120		66
2XDSR4488A	04010			11.4	.4488		12.00		120		66
2XDSR4527A	02534			11.5	.4527		12.00		120		66
2XDSR4567A	02535			11.6	.4567		12.00		120		66
2XDSR4606A	02536			11.7	.4606		12.00		120		66
2XDSR4646A	02537			11.8	.4646		12.00		120		66
2XDSR4685A	04011			11.9	.4685		12.00		120		66
2XDSR4688A	02538	15/32			.4688	15/32		4.72		2.600	
2XDSR4724A	02540			12.0	.4724		12.00		120		66
2XDSR4764A	02542			12.1	.4764		14.00		126		72
2XDSR4844A	02544	31/64			.4844	1/2		4.75		2.830	
2XDSR4921A	02546			12.5	.4921		14.00		126		72
2XDSR5000A	02548	1/2			.5000	1/2		4.75		2.830	
2XDSR5039A	02550			12.8	.5039		14.00		126		72
2XDSR5051A	02549			12.83	.5051		14.00		126		72



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



ALtima®		DC (h7)				DCONMS (h6)		OAL		LCF	
Tool No.	EDP	Inch	Letter/ Wire	mm	Decimal	Inch	mm	Inch	mm	Inch	mm
2XDSR5079A	02551			12.9	.5079		14.00		126		72
2XDSR5118A	02552			13.0	.5118		14.00		126		72
2XDSR5156A	02554	33/64			.5156	35/64		5.28		3.030	
2XDSR5312A	02555	17/32			.5312	35/64		5.28		3.030	
2XDSR5315A	02556			13.5	.5315		14.00		134		77
2XDSR5394A	02558			13.7	.5394		14.00		134		77
2XDSR5469A	02560	35/64			.5469	35/64		5.28		3.030	
2XDSR5512A	02562			14.0	.5512		14.00		134		77
2XDSR5625A	02564	9/16			.5625	5/8		5.51		3.150	
2XDSR5709A	02566			14.5	.5709		16.00		140		80
2XDSR5787A	02568			14.7	.5787		16.00		140		80
2XDSR5905A	02570			15.0	.5905		16.00		140		80
2XDSR5938A	02572	19/32			.5938	5/8		5.75		3.230	
2XDSR6024A	02573			15.3	.6024		16.00		146		82
2XDSR6102A	02574			15.5	.6102		16.00		146		82
2XDSR6181A	02576			15.7	.6181		16.00		146		82
2XDSR6250A	02578	5/8			.6250	5/8		5.75		3.230	
2XDSR6299A	02580			16.0	.6299		16.00		146		82

