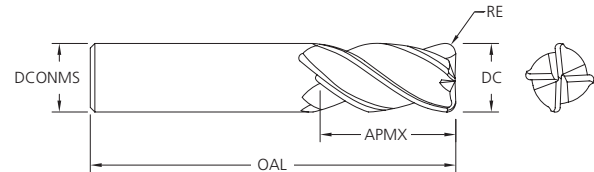


TuffCut® XT - Series 277



- Improved geometries.
- Enhanced corner protection.
- Variable helix.

ALtima® Blaze		ALtima® Blaze Weldon Flat		DC			DCONMS		OAL		APMX		RE	
Tool No.	EDP	Tool No.	EDP	Inch	mm	Decimal	Inch	mm	Inch	mm	Inch	mm	Inch	mm
277 0300B	27700				3.0	.1181		6.0		57.0		8.0		
277 0300-0.25RB	27701				3.0	.1181		6.0		57.0		8.0		0.25
27712500B	18700			1/8		.1250	1/8		1-1/2		1/8			
27712502B	18701			1/8		.1250	1/8		1-1/2		1/8		.015	
27712510B	18702			1/8		.1250	1/8		1-1/2		3/8			
27712511B	18947			1/8		.1250	1/8		1-1/2		3/8		.010	
27712512B	18703			1/8		.1250	1/8		1-1/2		3/8		.015	
277L1250B	18704			1/8		.1250	1/8		1-1/2		1/2			
277L1252B	18705			1/8		.1250	1/8		1-1/2		1/2		.015	
277 0400B	27702				4.0	.1575		6.0		57.0		11.0		
277 0400-0.25RB	27703				4.0	.1575		6.0		57.0		11.0		0.25
27718700B	18710			3/16		.1875	3/16		2		3/16			
27718702B	18711			3/16		.1875	3/16		2		3/16		.015	
27718704B	18712			3/16		.1875	3/16		2		3/16		.030	
27718710B	18713			3/16		.1875	3/16		2		7/16			
27718711B	18948			3/16		.1875	3/16		2		7/16		.010	
27718712B	18714			3/16		.1875	3/16		2		7/16		.015	
27718714B	18715			3/16		.1875	3/16		2		7/16		.030	
277L1870B	18716			3/16		.1875	3/16		2-1/2		3/4			
277L1872B	18717			3/16		.1875	3/16		2-1/2		3/4		.015	
277L1874B	18718			3/16		.1875	3/16		2-1/2		3/4		.030	
277 0500B	27704				5.0	.1968		6.0		57.0		13.0		

Inch	
DC	Tolerance
1/8 - 1/4	+0.000/-0.002
>1/4 - 1	+0.000/-0.003

Inch	
DCONMS	Tolerance (h6)
.1182 - .2362	+0/-0.00031
.2363 - .3937	+0/-0.00035
.3938 - .7087	+0/-0.00043
.7088 - 1.000	+0/-0.00051

Metric (mm)	
DC	Tolerance (h10)
3.00	+0.000/-0.040
>3.00 - 6.00	+0.000/-0.048
>6.00 - 10.00	+0.000/-0.058
>10.00 - 18.00	+0.000/-0.070
>18.00 - 20.00	+0.000/-0.084

Metric (mm)	
DCONMS	Tolerance (h6)
6.0	+0/-0.008
6.01 - 10.0	+0/-0.009
10.01 - 18.0	+0/-0.011
18.01 - 20.0	+0/-0.013

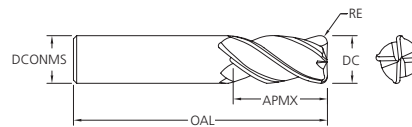
Inch	
RE	Tolerance
1/8 - 1	+0.0000/-0.0016

Metric (mm)	
RE	Tolerance
3.0 - 20.0	+0.00/-0.04



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TuffCut® XT - Series 277 *Continued*



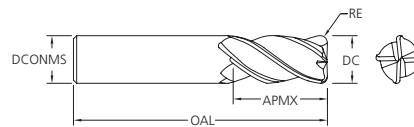
ALtima® Blaze		ALtima® Blaze Weldon Flat		DC			DCONMS		OAL		APMX		RE	
Tool No.	EDP	Tool No.	EDP	Inch	mm	Decimal	Inch	mm	Inch	mm	Inch	mm	Inch	mm
277 0500-0.25RB	27705				5.0	.1968		6.0		57.0		13.0		0.25
277 0600B	27706				6.0	.2362		6.0		57.0		13.0		
277 0600-0.25RB	27707				6.0	.2362		6.0		57.0		13.0		0.25
27725000B	18725			1/4		.2500	1/4		2		3/8			
27725002B	18726			1/4		.2500	1/4		2		3/8		.015	
27725004B	18727			1/4		.2500	1/4		2		3/8		.030	
27725010B	18728			1/4		.2500	1/4		2-1/2		3/4			
27725011B	18949			1/4		.2500	1/4		2-1/2		3/4		.010	
27725012B	18729			1/4		.2500	1/4		2-1/2		3/4		.015	
27725013B	18950			1/4		.2500	1/4		2-1/2		3/4		.020	
27725014B	18730			1/4		.2500	1/4		2-1/2		3/4		.030	
277L2500B	18731			1/4		.2500	1/4		3		1-1/4			
277L2502B	18732			1/4		.2500	1/4		3		1-1/4		.015	
277L2504B	18733			1/4		.2500	1/4		3		1-1/4		.030	
277X2500B	18734			1/4		.2500	1/4		4		1-3/4			
277X2502B	18735			1/4		.2500	1/4		4		1-3/4		.015	
277X2504B	18736			1/4		.2500	1/4		4		1-3/4		.030	
27731200B	18740			5/16		.3125	5/16		2		7/16			
27731202B	18741			5/16		.3125	5/16		2		7/16		.015	
27731204B	18742			5/16		.3125	5/16		2		7/16		.030	
27731206B	18743			5/16		.3125	5/16		2		7/16		.060	
27731210B	18744			5/16		.3125	5/16		2-1/2		13/16			
27731212B	18745			5/16		.3125	5/16		2-1/2		13/16		.015	
27731214B	18746			5/16		.3125	5/16		2-1/2		13/16		.030	
27731216B	18747			5/16		.3125	5/16		2-1/2		13/16		.060	
277L3120B	18748			5/16		.3125	5/16		3		1-1/4			
277L3122B	18749			5/16		.3125	5/16		3		1-1/4		.015	
277L3124B	18750			5/16		.3125	5/16		3		1-1/4		.030	
277L3126B	18751			5/16		.3125	5/16		3		1-1/4		.060	
277X3120B	18752			5/16		.3125	5/16		4		1-3/4			
277X3122B	18753			5/16		.3125	5/16		4		1-3/4		.015	
277X3124B	18754			5/16		.3125	5/16		4		1-3/4		.030	
277X3126B	18755			5/16		.3125	5/16		4		1-3/4		.060	
277 0800B	27708				8.0	.3150		8.0		63.0		19.0		
277 0800-0.80RB	27709				8.0	.3150		8.0		63.0		19.0		0.80
27737500B	18759			3/8		.3750	3/8		2		1/2			



ALtima® Blaze		ALtima® Blaze Weldon Flat		DC			DCONMS		OAL		APMX		RE	
Tool No.	EDP	Tool No.	EDP	Inch	mm	Decimal	Inch	mm	Inch	mm	Inch	mm	Inch	mm
27737502B	18760			3/8		.3750	3/8		2		1/2		.015	
27737504B	18761			3/8		.3750	3/8		2		1/2		.030	
27737506B	18762			3/8		.3750	3/8		2		1/2		.060	
27737510B	18763			3/8		.3750	3/8		2-1/2		7/8			
27737511B	18951			3/8		.3750	3/8		2-1/2		7/8		.010	
27737512B	18764			3/8		.3750	3/8		2-1/2		7/8		.015	
27737513B	18952			3/8		.3750	3/8		2-1/2		7/8		.020	
27737514B	18765			3/8		.3750	3/8		2-1/2		7/8		.030	
27737516B	18766			3/8		.3750	3/8		2-1/2		7/8		.060	
27737520B	14498			3/8		.3750	3/8		3		1-1/4			
27737522B	14499			3/8		.3750	3/8		3		1-1/4		.015	
27737524B	14500			3/8		.3750	3/8		3		1-1/4		.030	
27737526B	14503			3/8		.3750	3/8		3		1-1/4		.060	
277L3750B	18767			3/8		.3750	3/8		4		1-1/2			
277L3752B	18768			3/8		.3750	3/8		4		1-1/2		.015	
277L3754B	18769			3/8		.3750	3/8		4		1-1/2		.030	
277L3756B	18770			3/8		.3750	3/8		4		1-1/2		.060	
277X3750B	18771			3/8		.3750	3/8		4		2-1/2			
277X3752B	18772			3/8		.3750	3/8		4		2-1/2		.015	
277X3754B	18773			3/8		.3750	3/8		4		2-1/2		.030	
277X3756B	18774			3/8		.3750	3/8		4		2-1/2		.060	
277 1000B	27710				10.0	.3937		10.0		72.0		22.0		
277 1000-0.80RB	27711				10.0	.3937		10.0		72.0		22.0		0.80
27743700B	18778			7/16		.4375	7/16		2-1/2		1/2			
27743702B	18779			7/16		.4375	7/16		2-1/2		1/2		.015	
27743704B	18780			7/16		.4375	7/16		2-1/2		1/2		.030	
27743710B	18781			7/16		.4375	7/16		2-3/4		1			
27743712B	18782			7/16		.4375	7/16		2-3/4		1		.015	
27743714B	18783			7/16		.4375	7/16		2-3/4		1		.030	
277L4370B	18784			7/16		.4375	7/16		4		2			
277L4372B	18785			7/16		.4375	7/16		4		2		.015	
277L4374B	18786			7/16		.4375	7/16		4		2		.030	
277 1200B	27712				12.0	.4724		12.0		83.0		26.0		
277 1200-0.80RB	27713				12.0	.4724		12.0		83.0		26.0		0.80
277 1200-3.00RB	27714				12.0	.4724		12.0		83.0		26.0		3.00
27750000B	18787	27750000BW	13269	1/2		.5000	1/2		2-1/2		5/8			
27750002B	18788	27750002BW	13270	1/2		.5000	1/2		2-1/2		5/8		.015	
27750004B	18789	27750004BW	13271	1/2		.5000	1/2		2-1/2		5/8		.030	
27750006B	18790	27750006BW	13272	1/2		.5000	1/2		2-1/2		5/8		.060	
27750010B	18791	27750010BW	13273	1/2		.5000	1/2		3		1			
27750011B	18953			1/2		.5000	1/2		3		1		.010	
27750012B	18792	27750012BW	13274	1/2		.5000	1/2		3		1		.015	
27750013B	18954			1/2		.5000	1/2		3		1		.020	



TuffCut® XT - Series 277 *Continued*



ALtima® Blaze		ALtima® Blaze Weldon Flat		DC			DCONMS		OAL		APMX		RE	
Tool No.	EDP	Tool No.	EDP	Inch	mm	Decimal	Inch	mm	Inch	mm	Inch	mm	Inch	mm
27750014B	18793	27750014BW	13275	1/2		.5000	1/2		3		1		.030	
27750015B	18811	27750015BW	13276	1/2		.5000	1/2		3		1		.045	
27750016B	18794	27750016BW	13277	1/2		.5000	1/2		3		1		.060	
27750017B	18795	27750017BW	13278	1/2		.5000	1/2		3		1		.090	
27750018B	18796	27750018BW	13279	1/2		.5000	1/2		3		1		.120	
27750020B	18797	27750020BW	13280	1/2		.5000	1/2		3		1-1/4			
27750021B	18955			1/2		.5000	1/2		3		1-1/4		.010	
27750022B	18798	27750022BW	13281	1/2		.5000	1/2		3		1-1/4		.015	
27750023B	18956			1/2		.5000	1/2		3		1-1/4		.020	
27750024B	18799	27750024BW	13282	1/2		.5000	1/2		3		1-1/4		.030	
27750026B	18800	27750026BW	13283	1/2		.5000	1/2		3		1-1/4		.060	
27750027B	18801	27750027BW	13284	1/2		.5000	1/2		3		1-1/4		.090	
27750028B	18802	27750028BW	13285	1/2		.5000	1/2		3		1-1/4		.120	
277L5000B	18803	277L5000BW	13286	1/2		.5000	1/2		4		2			
277L5002B	18804	277L5002BW	13287	1/2		.5000	1/2		4		2		.015	
277L5004B	18805	277L5004BW	13288	1/2		.5000	1/2		4		2		.030	
277L5006B	18806	277L5006BW	13289	1/2		.5000	1/2		4		2		.060	
277X5000B	18807	277X5000BW	13290	1/2		.5000	1/2		5		3			
277X5002B	18808	277X5002BW	13291	1/2		.5000	1/2		5		3		.015	
277X5004B	18809	277X5004BW	13292	1/2		.5000	1/2		5		3		.030	
277X5006B	18810	277X5006BW	13293	1/2		.5000	1/2		5		3		.060	
27762500B	18814	27762500BW	13294	5/8		.6250	5/8		3		3/4			
27762502B	18815	27762502BW	13295	5/8		.6250	5/8		3		3/4		.015	
27762504B	18816	27762504BW	13296	5/8		.6250	5/8		3		3/4		.030	
27762506B	18817	27762506BW	13297	5/8		.6250	5/8		3		3/4		.060	
27762510B	18818	27762510BW	13298	5/8		.6250	5/8		3-1/2		1-1/4			
27762512B	18819	27762512BW	13299	5/8		.6250	5/8		3-1/2		1-1/4		.015	
27762514B	18820	27762514BW	14141	5/8		.6250	5/8		3-1/2		1-1/4		.030	
27762516B	18821	27762516BW	14142	5/8		.6250	5/8		3-1/2		1-1/4		.060	
27762517B	18822	27762517BW	14143	5/8		.6250	5/8		3-1/2		1-1/4		.090	
27762518B	18823	27762518BW	14144	5/8		.6250	5/8		3-1/2		1-1/4		.120	
277L6250B	18824	277L6250BW	14145	5/8		.6250	5/8		5		2-1/4			
277L6252B	18825	277L6252BW	14146	5/8		.6250	5/8		5		2-1/4		.015	
277L6254B	18826	277L6254BW	14147	5/8		.6250	5/8		5		2-1/4		.030	
277L6256B	18827	277L6256BW	14148	5/8		.6250	5/8		5		2-1/4		.060	
277X6250B	18828	277X6250BW	14149	5/8		.6250	5/8		6		3			
277X6252B	18829	277X6252BW	14150	5/8		.6250	5/8		6		3		.015	
277X6254B	18830	277X6254BW	14151	5/8		.6250	5/8		6		3		.030	

ALtima® Blaze		ALtima® Blaze Weldon Flat		DC			DCONMS		OAL		APMX		RE	
Tool No.	EDP	Tool No.	EDP	Inch	mm	Decimal	Inch	mm	Inch	mm	Inch	mm	Inch	mm
277X6256B	18831	277X6256BW	14152	5/8		.6250	5/8		6		3		.060	
277 1600B	27715				16.0	.6299		16.0		92.0		32.0		
277 1600-0.80RB	27716				16.0	.6299		16.0		92.0		32.0		0.80
27775000B	18832	27775000BW	14153	3/4		.7500	3/4		3		1			
27775002B	18833	27775002BW	14154	3/4		.7500	3/4		3		1		.015	
27775004B	18834	27775004BW	14155	3/4		.7500	3/4		3		1		.030	
27775006B	18835	27775006BW	14156	3/4		.7500	3/4		3		1		.060	
27775010B	18836	27775010BW	14157	3/4		.7500	3/4		4		1-5/8			
27775012B	18837	27775012BW	14158	3/4		.7500	3/4		4		1-5/8		.015	
27775014B	18838	27775014BW	14159	3/4		.7500	3/4		4		1-5/8		.030	
27775016B	18839	27775016BW	14160	3/4		.7500	3/4		4		1-5/8		.060	
27775017B	18840	27775017BW	14161	3/4		.7500	3/4		4		1-5/8		.090	
27775018B	18841	27775018BW	14162	3/4		.7500	3/4		4		1-5/8		.120	
27775019B	18842	27775019BW	14163	3/4		.7500	3/4		4		1-5/8		.190	
27775020B	18843	27775020BW	14164	3/4		.7500	3/4		4		1-5/8		.250	
277L7500B	18844	277L7500BW	14165	3/4		.7500	3/4		5		2-1/4			
277L7502B	18845	277L7502BW	14166	3/4		.7500	3/4		5		2-1/4		.015	
277L7504B	18846	277L7504BW	14167	3/4		.7500	3/4		5		2-1/4		.030	
277L7506B	18847	277L7506BW	14168	3/4		.7500	3/4		5		2-1/4		.060	
277X7500B	18848	277X7500BW	14169	3/4		.7500	3/4		6		3			
277X7502B	18849	277X7502BW	14170	3/4		.7500	3/4		6		3		.015	
277X7504B	18850	277X7504BW	14171	3/4		.7500	3/4		6		3		.030	
277X7506B	18851	277X7506BW	14172	3/4		.7500	3/4		6		3		.060	
277XX750B	18852	277XX750BW	14173	3/4		.7500	3/4		7		4-1/8			
277XX754B	18853	277XX754BW	14174	3/4		.7500	3/4		7		4-1/8		.030	
277XX756B	18854	277XX756BW	14175	3/4		.7500	3/4		7		4-1/8		.060	
277 2000B	27717				20.0	.7874		20.0		104.0		38.0		
277 2000-0.80RB	27718				20.0	.7874		20.0		104.0		38.0		0.80
27710010B	18859	27710010BW	14176	1		1.0000	1		4		1-1/2			
27710012B	18860	27710012BW	14177	1		1.0000	1		4		1-1/2		.015	
27710014B	18861	27710014BW	14178	1		1.0000	1		4		1-1/2		.030	
27710016B	18862	27710016BW	14179	1		1.0000	1		4		1-1/2		.060	
27710017B	18863	27710017BW	14180	1		1.0000	1		4		1-1/2		.090	
27710018B	18864	27710018BW	14181	1		1.0000	1		4		1-1/2		.120	
27710019B	18865	27710019BW	14182	1		1.0000	1		4		1-1/2		.190	
27710020B	18866	27710020BW	14183	1		1.0000	1		4		1-1/2		.250	
277L1000B	18867	277L1000BW	14184	1		1.0000	1		5		2-1/4			
277L1002B	18868	277L1002BW	14185	1		1.0000	1		5		2-1/4		.015	
277L1004B	18869	277L1004BW	14186	1		1.0000	1		5		2-1/4		.030	
277L1006B	18870	277L1006BW	14187	1		1.0000	1		5		2-1/4		.060	
277X1000B	18871	277X1000BW	14188	1		1.0000	1		6		3			
277X1002B	18872	277X1002BW	14189	1		1.0000	1		6		3		.015	
277X1004B	18873	277X1004BW	14190	1		1.0000	1		6		3		.030	
277X1006B	18874	277X1006BW	14191	1		1.0000	1		6		3		.060	
277XX100B	18875	277XX100BW	14192	1		1.0000	1		7		4-1/8			
277XX104B	18876	277XX104BW	14193	1		1.0000	1		7		4-1/8		.030	
277XX106B	18877	277XX106BW	14194	1		1.0000	1		7		4-1/8		.060	

