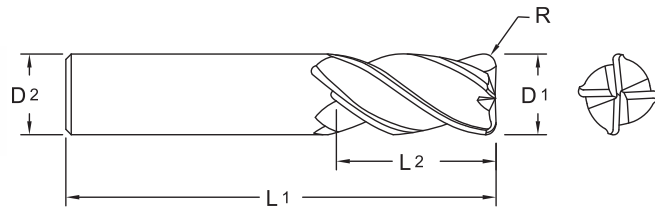


NEW TuffCut® XT Series 277/277W



New-Standard Offering with Weldon Shank Flats



- Improved geometries.
- Enhanced corner protection.

ALtima® Blaze		ALtima® Blaze Weldon Flat		Diameter			Shank		OAL		Flute Length		Corner Radius	
Tool No.	EDP	Tool No.	EDP	D1			D2 h6		L1		L2		R	
				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			
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			
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		
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			
27725012B	18729			1/4		.2500	1/4		2-1/2		3/4		.015	

Inch	
D1	Tolerance
1/8-1/4	+0.000/-0.002
>1/4-1	+0.000/-0.003

Metric (mm)	
D1	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

Inch	
D2	Tolerance (h6)
.1182 - .2362	+0/-0.00031
.2363 - .3937	+0/-0.00035
.3938 - .7087	+0/-0.00043
.7088 - 1.000	+0/-0.00051

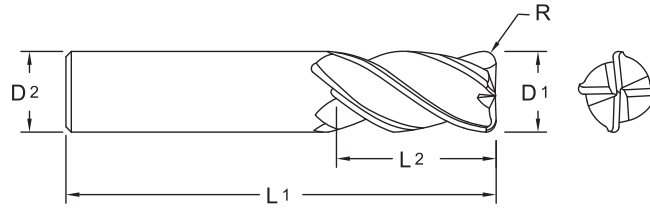
Metric (mm)	
D2	Tolerance (h6)
6.0	+0/-0.008
6.01 - 10.0	+0/-0.009
10.01 - 18.0	+0/-0.011
18.01 - 20.0	+0/-0.013



Series 277/277W Continued



4
Flute



ALtima® Blaze		ALtima® Blaze Weldon Flat		Diameter			Shank		OAL		Flute Length		Corner Radius	
Tool No.	EDP	Tool No.	EDP	D1			D2 h6		L1		L2		R	
				Inch	mm	Decimal	Inch	mm	Inch	mm	Inch	mm	Inch	mm
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			
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			
27737512B	18764			3/8		.3750	3/8		2-1/2		7/8		.015	
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	



Series 277/277W Continued



ALtima® Blaze		ALtima® Blaze Weldon Flat		Diameter			Shank		OAL		Flute Length		Corner Radius	
Tool No.	EDP	Tool No.	EDP	D1			D2 h6		L1		L2		R	
				Inch	mm	Decimal	Inch	mm	Inch	mm	Inch	mm	Inch	mm
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			
27750012B	18792	27750012BW	13274	1/2		.5000	1/2		3		1		.015	
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			
27750022B	18798	27750022BW	13281	1/2		.5000	1/2		3		1-1/4		.015	
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	

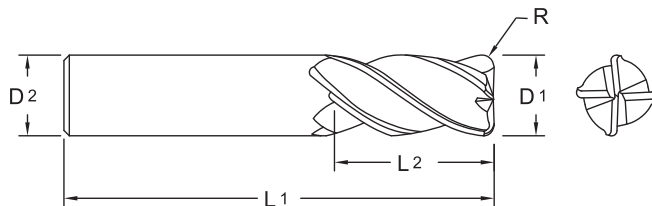
End Mills



Series 277/277W Continued



4
Flute



ALtima® Blaze		ALtima® Blaze Weldon Flat		Diameter			Shank		OAL	Flute Length		Corner Radius		
Tool No.	EDP	Tool No.	EDP	D1			D2 h6		L1	L2		R		
				Inch	mm	Decimal	Inch	mm	Inch	mm	Inch	mm	Inch	mm
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	
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	

Series 277/277W Continued

ALtima® Blaze		ALtima® Blaze Weldon Flat		Diameter			Shank		OAL		Flute Length		Corner Radius	
Tool No.	EDP	Tool No.	EDP	D1			D2 h6		L1		L2		R	
				Inch	mm	Decimal	Inch	mm	Inch	mm	Inch	mm	Inch	mm
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	

4
Flute

End Mills



TECH
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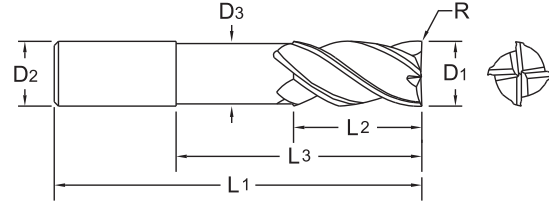
TuffCut® XT Series 277N



4
Flute



- Improved geometries.
- Enhanced corner protection.



ALtima® Blaze		Diameter		Shank	Neck Diameter	OAL	Flute	Neck Length	Corner Radius	Neck/Diameter Ratio
Tool No.	EDP	D1	Decimal	D2 h6	D3	L1	L2	L3	R	L3/D1
27712500N3B	27720	1/8	.1250	1/8	.115	3	3/16	3/8		3
27712502N3B	27721	1/8	.1250	1/8	.115	3	3/16	3/8	.015	3
27712500N5B	27722	1/8	.1250	1/8	.115	3	3/16	5/8		5
27712502N5B	27723	1/8	.1250	1/8	.115	3	3/16	5/8	.015	5
27718700N3B	27724	3/16	.1875	3/16	.177	3	1/4	9/16		3
27718702N3B	27725	3/16	.1875	3/16	.177	3	1/4	9/16	.015	3
27718704N3B	27726	3/16	.1875	3/16	.177	3	1/4	9/16	.030	3
27718700N5B	27727	3/16	.1875	3/16	.177	3	1/4	15/16		5
27718702N5B	27728	3/16	.1875	3/16	.177	3	1/4	15/16	.015	5
27718704N5B	27729	3/16	.1875	3/16	.177	3	1/4	15/16	.030	5
27725000N3B	27730	1/4	.2500	1/4	.240	3	3/8	3/4		3
27725002N3B	27731	1/4	.2500	1/4	.240	3	3/8	3/4	.015	3
27725004N3B	27732	1/4	.2500	1/4	.240	3	3/8	3/4	.030	3
27725006N3B	27733	1/4	.2500	1/4	.240	3	3/8	3/4	.060	3
27725000N5B	27734	1/4	.2500	1/4	.240	4	3/8	1-1/4		5
27725002N5B	27735	1/4	.2500	1/4	.240	4	3/8	1-1/4	.015	5
27725004N5B	27736	1/4	.2500	1/4	.240	4	3/8	1-1/4	.030	5
27725006N5B	27737	1/4	.2500	1/4	.240	4	3/8	1-1/4	.060	5
27731200N3B	27738	5/16	.3125	5/16	.300	3	7/16	15/16		3
27731202N3B	27739	5/16	.3125	5/16	.300	3	7/16	15/16	.015	3
27731204N3B	27740	5/16	.3125	5/16	.300	3	7/16	15/16	.030	3
27737500N3B	27741	3/8	.3750	3/8	.360	3	1/2	1-1/8		3
27737502N3B	27742	3/8	.3750	3/8	.360	3	1/2	1-1/8	.015	3
27737504N3B	27743	3/8	.3750	3/8	.360	3	1/2	1-1/8	.030	3
27737506N3B	27744	3/8	.3750	3/8	.360	3	1/2	1-1/8	.060	3
27737500N4B	27745	3/8	.3750	3/8	.360	4	1/2	1-1/2		4
27737502N4B	27746	3/8	.3750	3/8	.360	4	1/2	1-1/2	.015	4
27737504N4B	27747	3/8	.3750	3/8	.360	4	1/2	1-1/2	.030	4
27737506N4B	27748	3/8	.3750	3/8	.360	4	1/2	1-1/2	.060	4
27737500N5B	27749	3/8	.3750	3/8	.360	4	1/2	1-7/8		5
27737502N5B	27750	3/8	.3750	3/8	.360	4	1/2	1-7/8	.015	5
27737504N5B	27751	3/8	.3750	3/8	.360	4	1/2	1-7/8	.030	5

Inch		Inch	
D1	Tolerance	D2	Tolerance (h6)
1/8-1/4	+0.000/-0.002	.1182 - .2362	+0/-0.00031
>1/4-1	+0.000/-0.003	.2363 - .3937	+0/-0.00035
		.3938 - .7087	+0/-0.00043
		.7088 - 1.000	+0/-0.00051

Series 277N Continued



ALtima® Blaze		Diameter		Shank	Neck Diameter	OAL	Flute	Neck Length	Corner Radius	Neck/Diameter Ratio
Tool No.	EDP	D1	Decimal	D2 h6	D3	L1	L2	L3	R	L3/D1
27737506N5B	27752	3/8	.3750	3/8	.360	4	1/2	1-7/8	.060	5
27750000N3B	27753	1/2	.5000	1/2	.480	4	5/8	1-1/2		3
27750002N3B	27754	1/2	.5000	1/2	.480	4	5/8	1-1/2	.015	3
27750004N3B	27755	1/2	.5000	1/2	.480	4	5/8	1-1/2	.030	3
27750006N3B	27756	1/2	.5000	1/2	.480	4	5/8	1-1/2	.060	3
27750007N3B	27757	1/2	.5000	1/2	.480	4	5/8	1-1/2	.090	3
27750008N3B	27758	1/2	.5000	1/2	.480	4	5/8	1-1/2	.120	3
27750000N4B	27759	1/2	.5000	1/2	.480	5	5/8	2		4
27750002N4B	27760	1/2	.5000	1/2	.480	5	5/8	2	.015	4
27750004N4B	27761	1/2	.5000	1/2	.480	5	5/8	2	.030	4
27750006N4B	27762	1/2	.5000	1/2	.480	5	5/8	2	.060	4
27750007N4B	27763	1/2	.5000	1/2	.480	5	5/8	2	.090	4
27750008N4B	27764	1/2	.5000	1/2	.480	5	5/8	2	.120	4
27750000N5B	27765	1/2	.5000	1/2	.480	6	5/8	2-1/2		5
27750002N5B	27766	1/2	.5000	1/2	.480	6	5/8	2-1/2	.015	5
27750004N5B	27767	1/2	.5000	1/2	.480	6	5/8	2-1/2	.030	5
27750006N5B	27768	1/2	.5000	1/2	.480	6	5/8	2-1/2	.060	5
27750007N5B	27769	1/2	.5000	1/2	.480	6	5/8	2-1/2	.090	5
27750008N5B	27770	1/2	.5000	1/2	.480	6	5/8	2-1/2	.120	5
27762500N3B	27771	5/8	.6250	5/8	.600	5	3/4	1-7/8		3
27762504N3B	27772	5/8	.6250	5/8	.600	5	3/4	1-7/8	.030	3
27762506N3B	27773	5/8	.6250	5/8	.600	5	3/4	1-7/8	.060	3
27762507N3B	27774	5/8	.6250	5/8	.600	5	3/4	1-7/8	.090	3
27762508N3B	27775	5/8	.6250	5/8	.600	5	3/4	1-7/8	.120	3
27762500N4B	27776	5/8	.6250	5/8	.600	5	3/4	2-1/2		4
27762504N4B	27777	5/8	.6250	5/8	.600	5	3/4	2-1/2	.030	4
27762506N4B	27778	5/8	.6250	5/8	.600	5	3/4	2-1/2	.060	4
27762507N4B	27779	5/8	.6250	5/8	.600	5	3/4	2-1/2	.090	4
27762508N4B	27780	5/8	.6250	5/8	.600	5	3/4	2-1/2	.120	4
27762500N5B	27781	5/8	.6250	5/8	.600	6	3/4	3-1/8		5
27762504N5B	27782	5/8	.6250	5/8	.600	6	3/4	3-1/8	.030	5
27762506N5B	27783	5/8	.6250	5/8	.600	6	3/4	3-1/8	.060	5
27762507N5B	27784	5/8	.6250	5/8	.600	6	3/4	3-1/8	.090	5
27762508N5B	27785	5/8	.6250	5/8	.600	6	3/4	3-1/8	.120	5
27775000N3B	27786	3/4	.7500	3/4	.720	5	1	2-1/4		3
27775004N3B	27787	3/4	.7500	3/4	.720	5	1	2-1/4	.030	3
27775006N3B	27788	3/4	.7500	3/4	.720	5	1	2-1/4	.060	3
27775007N3B	27789	3/4	.7500	3/4	.720	5	1	2-1/4	.090	3
27775008N3B	27790	3/4	.7500	3/4	.720	5	1	2-1/4	.120	3
27775009N3B	27791	3/4	.7500	3/4	.720	5	1	2-1/4	.190	3
27775012N3B	27792	3/4	.7500	3/4	.720	5	1	2-1/4	.250	3
27775000N4B	27793	3/4	.7500	3/4	.720	6	1	3		4
27775004N4B	27794	3/4	.7500	3/4	.720	6	1	3	.030	4
27775006N4B	27795	3/4	.7500	3/4	.720	6	1	3	.060	4
27775007N4B	27796	3/4	.7500	3/4	.720	6	1	3	.090	4
27775008N4B	27797	3/4	.7500	3/4	.720	6	1	3	.120	4

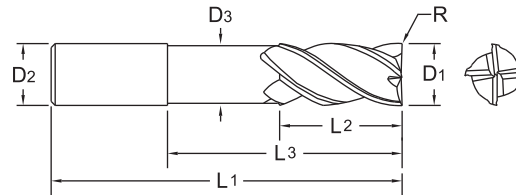
End Mills



Series 277N Continued



4
Flute



ALtima® Blaze		Diameter		Shank	Neck Diameter	OAL	Flute	Neck Length	Corner Radius	Neck/Diameter Ratio
Tool No.	EDP	D1	Decimal	D2 h6	D3	L1	L2	L3	R	L3/D1
27775009N4B	27798	3/4	.7500	3/4	.720	6	1	3	.190	4
27775012N4B	27799	3/4	.7500	3/4	.720	6	1	3	.250	4
27775000N5B	27800	3/4	.7500	3/4	.720	6	1	3-3/4		5
27775004N5B	27801	3/4	.7500	3/4	.720	6	1	3-3/4	.030	5
27775006N5B	27802	3/4	.7500	3/4	.720	6	1	3-3/4	.060	5
27775007N5B	27803	3/4	.7500	3/4	.720	6	1	3-3/4	.090	5
27775008N5B	27804	3/4	.7500	3/4	.720	6	1	3-3/4	.120	5
27775009N5B	27805	3/4	.7500	3/4	.720	6	1	3-3/4	.190	5
27775012N5B	27806	3/4	.7500	3/4	.720	6	1	3-3/4	.250	5
27710000N3B	27807	1	1.0000	1	.960	6	1-1/4	3		3
27710004N3B	27808	1	1.0000	1	.960	6	1-1/4	3	.030	3
27710006N3B	27809	1	1.0000	1	.960	6	1-1/4	3	.060	3
27710007N3B	27810	1	1.0000	1	.960	6	1-1/4	3	.090	3
27710008N3B	27811	1	1.0000	1	.960	6	1-1/4	3	.120	3
27710009N3B	27812	1	1.0000	1	.960	6	1-1/4	3	.190	3
27710012N3B	27813	1	1.0000	1	.960	6	1-1/4	3	.250	3
27710000N4B	27814	1	1.0000	1	.960	6	1-1/4	4		4
27710004N4B	27815	1	1.0000	1	.960	6	1-1/4	4	.030	4
27710006N4B	27816	1	1.0000	1	.960	6	1-1/4	4	.060	4
27710007N4B	27817	1	1.0000	1	.960	6	1-1/4	4	.090	4
27710008N4B	27818	1	1.0000	1	.960	6	1-1/4	4	.120	4
27710009N4B	27819	1	1.0000	1	.960	6	1-1/4	4	.190	4
27710012N4B	27821	1	1.0000	1	.960	6	1-1/4	4	.250	4
27710000N5B	27823	1	1.0000	1	.960	7	1-1/4	5		5
27710004N5B	27825	1	1.0000	1	.960	7	1-1/4	5	.030	5
27710006N5B	27827	1	1.0000	1	.960	7	1-1/4	5	.060	5
27710007N5B	27829	1	1.0000	1	.960	7	1-1/4	5	.090	5
27710008N5B	27831	1	1.0000	1	.960	7	1-1/4	5	.120	5
27710009N5B	27833	1	1.0000	1	.960	7	1-1/4	5	.190	5
27710012N5B	27835	1	1.0000	1	.960	7	1-1/4	5	.250	5

NEW TuffCut® XT Series 278/278W

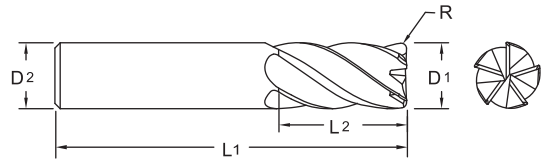


NEW Additional sizes, lengths, corner radii, and Weldon Shank flat options

5
Flute



- Improved geometries.
- Enhanced corner protection.



ALtima® Blaze		ALtima® Blaze Weldon Flat		Diameter		Shank	OAL	Flute Length		Corner Radius	Stock Status
Tool No.	EDP	Tool No.	EDP	D1		D2 h6	L1	L2	R		• Stocked
				Inch	Decimal	Inch	Inch	Inch	Inch		○ Non-Stocked
27812500B	36992			1/8	.1250	1/8	1-1/2	1/4			•
27812502B	97002			1/8	.1250	1/8	1-1/2	1/4	.015		•
27812504B	97003			1/8	.1250	1/8	1-1/2	1/4	.030		•
27812510B	36993			1/8	.1250	1/8	1-1/2	3/8			•
27812520B	97005			1/8	.1250	1/8	1-1/2	1/2			•
27812522B	97006			1/8	.1250	1/8	1-1/2	1/2	.015		•
27812524B	97007			1/8	.1250	1/8	1-1/2	1/2	.030		•
27812530B	97009			1/8	.1250	1/8	2-1/2	3/4			○
27812532B	97010			1/8	.1250	1/8	2-1/2	3/4	.015		○
27812534B	97011			1/8	.1250	1/8	2-1/2	3/4	.030		○
27815600B	36994			5/32	.1562	3/16	2	3/16			•
27815610B	36995			5/32	.1562	3/16	2	7/16			•
27818700B	36996			3/16	.1875	3/16	2	5/16			•
27818702B	97014			3/16	.1875	3/16	2	5/16	.015		•
27818704B	97015			3/16	.1875	3/16	2	5/16	.030		•
27818710B	36997			3/16	.1875	3/16	2	7/16			•
27818720B	97017			3/16	.1875	3/16	2	9/16			•
27818722B	97018			3/16	.1875	3/16	2	9/16	.015		•
27818724B	97019			3/16	.1875	3/16	2	9/16	.030		•
27818730B	97021			3/16	.1875	3/16	2-1/2	3/4			○
27818732B	97022			3/16	.1875	3/16	2-1/2	3/4	.015		○
27818734B	97023			3/16	.1875	3/16	2-1/2	3/4	.030		○
27821800B	36998			7/32	.2187	1/4	2	1/4			•
27821810B	36999			7/32	.2187	1/4	2-1/2	7/16			•
27825000B	37000			1/4	.2500	1/4	2	3/8			•
27825002B	37001			1/4	.2500	1/4	2	3/8	.015		•
27825004B	37002			1/4	.2500	1/4	2	3/8	.030		•
27825006B	97028			1/4	.2500	1/4	2	3/8	.060		○

Inch	
D1	Tolerance
1/8-1/4	+0.000/-0.002
>1/4-1	+0.000/-0.003

Inch	
D2	Tolerance (h6)
.1182 - .2362	+0/-0.00031
.2363 - .3937	+0/-0.00035
.3938 - .7087	+0/-0.00043
.7088 - 1.000	+0/-0.00051

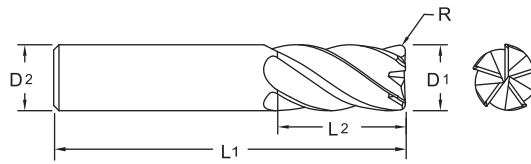


End Mills

Series 278/278W Continued



5
Flute



ALtima® Blaze		ALtima® Blaze Weldon Flat		Diameter		Shank	OAL	Flute Length		Corner Radius	Stock Status
Tool No.	EDP	Tool No.	EDP	Inch	Decimal	Inch	Inch	Inch	Inch	Inch	• Stocked
											○ Non-Stocked
27825007B	97029			1/4	.2500	1/4	2	3/8	.090		○
27825010B	37003			1/4	.2500	1/4	2-1/2	3/4			•
27825012B	37004			1/4	.2500	1/4	2-1/2	3/4	.015		•
27825014B	37005			1/4	.2500	1/4	2-1/2	3/4	.030		•
27825016B	97052			1/4	.2500	1/4	2-1/2	3/4	.060		○
27825017B	97053			1/4	.2500	1/4	2-1/2	3/4	.090		○
278L25000B	37006			1/4	.2500	1/4	3	1-1/4			•
278L25002B	37007			1/4	.2500	1/4	3	1-1/4	.015		•
278L25004B	37008			1/4	.2500	1/4	3	1-1/4	.030		•
278L25006B	97058			1/4	.2500	1/4	3	1-1/4	.060		○
278L25007B	97059			1/4	.2500	1/4	3	1-1/4	.090		○
278X25000B	37009			1/4	.2500	1/4	4	1-3/4			•
278X25002B	37010			1/4	.2500	1/4	4	1-3/4	.015		•
278X25004B	37075			1/4	.2500	1/4	4	1-3/4	.030		•
27831200B	97061			5/16	.3125	5/16	2	7/16			○
27831202B	97062			5/16	.3125	5/16	2	7/16	.015		○
27831204B	97063			5/16	.3125	5/16	2	7/16	.030		○
27831206B	97064			5/16	.3125	5/16	2	7/16	.060		○
27831207B	97065			5/16	.3125	5/16	2	7/16	.090		○
27831210B	97067			5/16	.3125	5/16	2-1/2	13/16			○
27831212B	97068			5/16	.3125	5/16	2-1/2	13/16	.015		○
27831214B	97069			5/16	.3125	5/16	2-1/2	13/16	.030		○
27831216B	97070			5/16	.3125	5/16	2-1/2	13/16	.060		○
27831217B	97071			5/16	.3125	5/16	2-1/2	13/16	.090		○
27831220B	97073			5/16	.3125	5/16	3	1-1/4			○
27831222B	97074			5/16	.3125	5/16	3	1-1/4	.015		○
27831224B	97075			5/16	.3125	5/16	3	1-1/4	.030		○
27831226B	97076			5/16	.3125	5/16	3	1-1/4	.060		○
27831227B	97077			5/16	.3125	5/16	3	1-1/4	.090		○
27831230B	97079			5/16	.3125	5/16	4	2-1/8			○
27831232B	97080			5/16	.3125	5/16	4	2-1/8	.015		○
27831234B	97081			5/16	.3125	5/16	4	2-1/8	.030		○
27831236B	97082			5/16	.3125	5/16	4	2-1/8	.060		○
27831237B	97083			5/16	.3125	5/16	4	2-1/8	.090		○
27837500B	37013			3/8	.3750	3/8	2-1/2	1/2			•
27837502B	37014			3/8	.3750	3/8	2-1/2	1/2	.015		•



Series 278/278W Continued

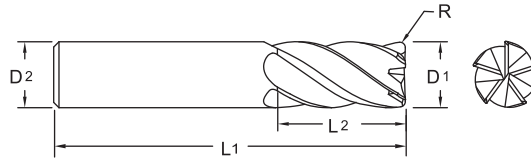
ALtima® Blaze		ALtima® Blaze Weldon Flat		Diameter		Shank	OAL	Flute Length		Corner Radius	Stock Status
Tool No.	EDP	Tool No.	EDP	D1		D2 h6	L1	L2	R	• Stocked	
				Inch	Decimal	Inch	Inch	Inch	Inch	o Non-Stocked	
27837504B	37015			3/8	.3750	3/8	2-1/2	1/2	.030	•	
27837506B	97088			3/8	.3750	3/8	2-1/2	1/2	.060	o	
27837507B	97089			3/8	.3750	3/8	2-1/2	1/2	.090	o	
27837508B	97090			3/8	.3750	3/8	2-1/2	1/2	.120	o	
278375011B	97091			3/8	.3750	3/8	2-1/2	1/2	.156	o	
27837510B	37016			3/8	.3750	3/8	2-1/2	1		•	
27837512B	37017			3/8	.3750	3/8	2-1/2	1	.015	•	
27837514B	37018			3/8	.3750	3/8	2-1/2	1	.030	•	
27837516B	97136			3/8	.3750	3/8	2-1/2	1	.060	o	
27837517B	97137			3/8	.3750	3/8	2-1/2	1	.090	o	
27837518B	97138			3/8	.3750	3/8	2-1/2	1	.120	o	
278375111B	97139			3/8	.3750	3/8	2-1/2	1	.156	o	
27837520B	97141			3/8	.3750	3/8	3	1-1/4		•	
27837522B	97142			3/8	.3750	3/8	3	1-1/4	.015	•	
27837524B	97143			3/8	.3750	3/8	3	1-1/4	.030	•	
27837526B	97144			3/8	.3750	3/8	3	1-1/4	.060	•	
27837527B	97145			3/8	.3750	3/8	3	1-1/4	.090	o	
27837528B	97146			3/8	.3750	3/8	3	1-1/4	.120	o	
278375211B	97147			3/8	.3750	3/8	3	1-1/4	.156	o	
27837530B	97149			3/8	.3750	3/8	3-1/2	1-5/8		o	
27837532B	97150			3/8	.3750	3/8	3-1/2	1-5/8	.015	o	
27837534B	97151			3/8	.3750	3/8	3-1/2	1-5/8	.030	o	
27837536B	97152			3/8	.3750	3/8	3-1/2	1-5/8	.060	o	
27837537B	97153			3/8	.3750	3/8	3-1/2	1-5/8	.090	o	
27837538B	97154			3/8	.3750	3/8	3-1/2	1-5/8	.120	o	
278375311B	97155			3/8	.3750	3/8	3-1/2	1-5/8	.156	o	
27837540B	97165			3/8	.3750	3/8	6	1-5/8		o	
27837542B	97166			3/8	.3750	3/8	6	1-5/8	.015	o	
27837544B	97167			3/8	.3750	3/8	6	1-5/8	.030	o	
27837546B	97168			3/8	.3750	3/8	6	1-5/8	.060	o	
27837547B	97169			3/8	.3750	3/8	6	1-5/8	.090	o	
27837548B	97170			3/8	.3750	3/8	6	1-5/8	.120	o	
278375411B	97171			3/8	.3750	3/8	6	1-5/8	.156	o	
27837550B	97173			3/8	.3750	3/8	4	2		o	
27837552B	97174			3/8	.3750	3/8	4	2	.015	o	
27837554B	97175			3/8	.3750	3/8	4	2	.030	o	
27837556B	97176			3/8	.3750	3/8	4	2	.060	o	
27837557B	97177			3/8	.3750	3/8	4	2	.090	o	
27837558B	97178			3/8	.3750	3/8	4	2	.120	o	
278375511B	97179			3/8	.3750	3/8	4	2	.156	o	
27837560B	97181			3/8	.3750	3/8	6	2-1/2		o	
27837562B	97182			3/8	.3750	3/8	6	2-1/2	.015	o	
27837564B	97183			3/8	.3750	3/8	6	2-1/2	.030	o	
27837566B	97184			3/8	.3750	3/8	6	2-1/2	.060	o	
27837567B	97185			3/8	.3750	3/8	6	2-1/2	.090	o	
27837568B	97186			3/8	.3750	3/8	6	2-1/2	.120	o	



Series 278/278W Continued



5
Flute



ALtima® Blaze		ALtima® Blaze Weldon Flat		Diameter		Shank	OAL	Flute Length		Corner Radius	Stock Status
Tool No.	EDP	Tool No.	EDP	Inch	Decimal	Inch	Inch	Inch	Inch	Inch	● Stocked ○ Non-Stocked
278375611B	97187			3/8	.3750	3/8	6	2-1/2	.156	○	
278L37500B	37019			3/8	.3750	3/8	4	1-5/8		●	
278L37502B	37020			3/8	.3750	3/8	4	1-5/8	.015	●	
278L37504B	37076			3/8	.3750	3/8	4	1-5/8	.030	●	
278L37506B	97160			3/8	.3750	3/8	4	1-5/8	.060	○	
278L37507B	97161			3/8	.3750	3/8	4	1-5/8	.090	○	
278L37508B	97162			3/8	.3750	3/8	4	1-5/8	.120	○	
278L375011B	97163			3/8	.3750	3/8	4	1-5/8	.156	○	
278X37500B	37021			3/8	.3750	3/8	4	2-1/2		●	
278X37502B	37022			3/8	.3750	3/8	4	2-1/2	.015	●	
278X37504B	37077			3/8	.3750	3/8	4	2-1/2	.030	●	
27843700B	97189			7/16	.4375	7/16	2-1/2	5/8		○	
27843702B	97190			7/16	.4375	7/16	2-1/2	5/8	.015	○	
27843704B	97191			7/16	.4375	7/16	2-1/2	5/8	.030	○	
27843706B	97192			7/16	.4375	7/16	2-1/2	5/8	.060	○	
27843707B	97193			7/16	.4375	7/16	2-1/2	5/8	.090	○	
27843708B	97194			7/16	.4375	7/16	2-1/2	5/8	.120	○	
278437011B	97195			7/16	.4375	7/16	2-1/2	5/8	.156	○	
27843710B	97197			7/16	.4375	7/16	2-3/4	1		○	
27843712B	97198			7/16	.4375	7/16	2-3/4	1	.015	○	
27843714B	97199			7/16	.4375	7/16	2-3/4	1	.030	○	
27843716B	97200			7/16	.4375	7/16	2-3/4	1	.060	○	
27843717B	97201			7/16	.4375	7/16	2-3/4	1	.090	○	
27843718B	97202			7/16	.4375	7/16	2-3/4	1	.120	○	
278437111B	97203			7/16	.4375	7/16	2-3/4	1	.156	○	
27843720B	97205			7/16	.4375	7/16	4	2		○	
27843722B	97206			7/16	.4375	7/16	4	2	.015	○	
27843724B	97207			7/16	.4375	7/16	4	2	.030	○	
27843726B	97208			7/16	.4375	7/16	4	2	.060	○	
27843727B	97209			7/16	.4375	7/16	4	2	.090	○	
27843728B	97210			7/16	.4375	7/16	4	2	.120	○	
278437211B	97211			7/16	.4375	7/16	4	2	.156	○	
27850000B	37025	27850000BW	13528	1/2	.5000	1/2	3	5/8		●	
27850002B	37026	27850002BW	13529	1/2	.5000	1/2	3	5/8	.015	●	
27850004B	37027	27850004BW	13550	1/2	.5000	1/2	3	5/8	.030	●	
27850006B	97216			1/2	.5000	1/2	3	5/8	.060	●	

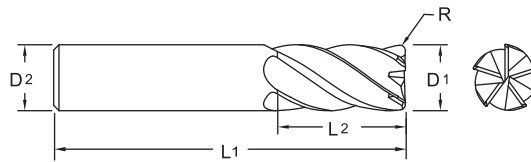


Series 278/278W Continued

ALtima® Blaze		ALtima® Blaze Weldon Flat		Diameter		Shank	OAL	Flute Length	Corner Radius	Stock Status
Tool No.	EDP	Tool No.	EDP	D1		D2 h6	L1	L2	R	• Stocked
				Inch	Decimal	Inch	Inch	Inch	Inch	o Non-Stocked
27850007B	97217			1/2	.5000	1/2	3	5/8	.090	•
27850008B	97218			1/2	.5000	1/2	3	5/8	.120	•
278500011B	97219			1/2	.5000	1/2	3	5/8	.156	o
27850009B	97220			1/2	.5000	1/2	3	5/8	.190	o
27850010B	97258			1/2	.5000	1/2	3	1		•
27850012B	97259			1/2	.5000	1/2	3	1	.015	•
27850014B	97260			1/2	.5000	1/2	3	1	.030	•
27850016B	97261			1/2	.5000	1/2	3	1	.060	•
27850017B	97262			1/2	.5000	1/2	3	1	.090	•
27850018B	97263			1/2	.5000	1/2	3	1	.120	•
278500111B	97264			1/2	.5000	1/2	3	1	.156	o
27850019B	97265			1/2	.5000	1/2	3	1	.190	o
27850020B	37028	27850020BW	13551	1/2	.5000	1/2	3	1-1/4		•
27850022B	37029	27850022BW	13579	1/2	.5000	1/2	3	1-1/4	.015	•
27850024B	37030	27850024BW	12761	1/2	.5000	1/2	3	1-1/4	.030	•
27850026B	37078	27850026BW	13584	1/2	.5000	1/2	3	1-1/4	.060	•
27850027B	97271			1/2	.5000	1/2	3	1-1/4	.090	•
27850028B	97272			1/2	.5000	1/2	3	1-1/4	.120	•
278500211B	97273			1/2	.5000	1/2	3	1-1/4	.156	o
27850029B	97274			1/2	.5000	1/2	3	1-1/4	.190	o
27850030B	97276			1/2	.5000	1/2	4	1-5/8		o
27850032B	97277			1/2	.5000	1/2	4	1-5/8	.015	o
27850034B	97278			1/2	.5000	1/2	4	1-5/8	.030	o
27850036B	97279			1/2	.5000	1/2	4	1-5/8	.060	o
27850037B	97280			1/2	.5000	1/2	4	1-5/8	.090	o
27850038B	97281			1/2	.5000	1/2	4	1-5/8	.120	o
278500311B	97282			1/2	.5000	1/2	4	1-5/8	.156	o
27850039B	97283			1/2	.5000	1/2	4	1-5/8	.190	o
27850040B	97294			1/2	.5000	1/2	4	2-1/8		o
27850042B	97295			1/2	.5000	1/2	4	2-1/8	.015	o
27850044B	97296			1/2	.5000	1/2	4	2-1/8	.030	o
27850046B	97297			1/2	.5000	1/2	4	2-1/8	.060	o
27850047B	97298			1/2	.5000	1/2	4	2-1/8	.090	o
27850048B	97299			1/2	.5000	1/2	4	2-1/8	.120	o
278500411B	97300			1/2	.5000	1/2	4	2-1/8	.156	o
27850049B	97301			1/2	.5000	1/2	4	2-1/8	.190	o
27850050B	97303			1/2	.5000	1/2	5	2-5/8		o
27850052B	97304			1/2	.5000	1/2	5	2-5/8	.015	o
27850054B	97305			1/2	.5000	1/2	5	2-5/8	.030	o
27850056B	97306			1/2	.5000	1/2	5	2-5/8	.060	o
27850057B	97307			1/2	.5000	1/2	5	2-5/8	.090	o
27850058B	97308			1/2	.5000	1/2	5	2-5/8	.120	o
278500511B	97309			1/2	.5000	1/2	5	2-5/8	.156	o
27850059B	97310			1/2	.5000	1/2	5	2-5/8	.190	o
27850060B	97285			1/2	.5000	1/2	6	1-5/8		o
27850062B	97286			1/2	.5000	1/2	6	1-5/8	.015	o



Series 278/278W Continued



ALtima® Blaze		ALtima® Blaze Weldon Flat		Diameter		Shank	OAL	Flute Length		Corner Radius	Stock Status
Tool No.	EDP	Tool No.	EDP	Inch	Decimal	Inch	Inch	Inch	Inch	Inch	• Stocked ○ Non-Stocked
27850064B	97287			1/2	.5000	1/2	6	1-5/8	.030	○	
27850066B	97288			1/2	.5000	1/2	6	1-5/8	.060	○	
27850067B	97289			1/2	.5000	1/2	6	1-5/8	.090	○	
27850068B	97290			1/2	.5000	1/2	6	1-5/8	.120	○	
278500611B	97291			1/2	.5000	1/2	6	1-5/8	.156	○	
27850069B	97292			1/2	.5000	1/2	6	1-5/8	.190	○	
27850070B	97312			1/2	.5000	1/2	6	3-1/4		○	
27850072B	97313			1/2	.5000	1/2	6	3-1/4	.015	○	
27850074B	97314			1/2	.5000	1/2	6	3-1/4	.030	○	
27850076B	97315			1/2	.5000	1/2	6	3-1/4	.060	○	
27850077B	97316			1/2	.5000	1/2	6	3-1/4	.090	○	
27850078B	97317			1/2	.5000	1/2	6	3-1/4	.120	○	
278500711B	97318			1/2	.5000	1/2	6	3-1/4	.156	○	
27850079B	97319			1/2	.5000	1/2	6	3-1/4	.190	○	
278L50000B	37031	278L50000BW	13588	1/2	.5000	1/2	4	2		•	
278L50002B	37032	278L50002BW	13589	1/2	.5000	1/2	4	2	.015	•	
278L50004B	37033	278L50004BW	13593	1/2	.5000	1/2	4	2	.030	•	
278X50000B	37034	278X50000BW	13606	1/2	.5000	1/2	5	3		•	
278X50002B	37035	278X50002BW	13607	1/2	.5000	1/2	5	3	.015	•	
278X50004B	37036	278X50004BW	13608	1/2	.5000	1/2	5	3	.030	•	
27862500B	97321			5/8	.6250	5/8	3	3/4		•	
27862502B	97322			5/8	.6250	5/8	3	3/4	.015	•	
27862504B	97323			5/8	.6250	5/8	3	3/4	.030	•	
27862506B	97324			5/8	.6250	5/8	3	3/4	.060	•	
27862507B	97325			5/8	.6250	5/8	3	3/4	.090	•	
27862508B	97326			5/8	.6250	5/8	3	3/4	.120	•	
278625011B	97327			5/8	.6250	5/8	3	3/4	.156	○	
27862509B	97328			5/8	.6250	5/8	3	3/4	.190	○	
278625012B	97329			5/8	.6250	5/8	3	3/4	.250	○	
27862510B	37039	27862510BW	13609	5/8	.6250	5/8	3-1/2	1-1/4		•	
27862512B	37040	27862512BW	13611	5/8	.6250	5/8	3-1/2	1-1/4	.015	•	
27862514B	37041	27862514BW	13612	5/8	.6250	5/8	3-1/2	1-1/4	.030	•	
27862516B	37042	27862516BW	13613	5/8	.6250	5/8	3-1/2	1-1/4	.060	•	
27862518B	37043	27862518BW	13614	5/8	.6250	5/8	3-1/2	1-1/4	.120	•	
27862520B	97361			5/8	.6250	5/8	3-1/2	1-5/8		○	
27862522B	97362			5/8	.6250	5/8	3-1/2	1-5/8	.015	○	



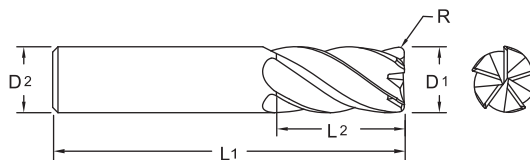
Series 278/278W Continued

ALtima® Blaze		ALtima® Blaze Weldon Flat		Diameter		Shank	OAL	Flute Length		Corner Radius	Stock Status
Tool No.	EDP	Tool No.	EDP	D1		D2 h6	L1	L2	R	• Stocked	
				Inch	Decimal	Inch	Inch	Inch	Inch	o Non-Stocked	
27862524B	97363			5/8	.6250	5/8	3-1/2	1-5/8	.030	o	
27862526B	97364			5/8	.6250	5/8	3-1/2	1-5/8	.060	o	
27862527B	97365			5/8	.6250	5/8	3-1/2	1-5/8	.090	o	
27862528B	97366			5/8	.6250	5/8	3-1/2	1-5/8	.120	o	
278625211B	97368			5/8	.6250	5/8	3-1/2	1-5/8	.156	o	
27862529B	97367			5/8	.6250	5/8	3-1/2	1-5/8	.190	o	
278625212B	97369			5/8	.6250	5/8	3-1/2	1-5/8	.250	o	
27862530B	97371			5/8	.6250	5/8	4	2-1/8		o	
27862532B	97372			5/8	.6250	5/8	4	2-1/8	.015	o	
27862534B	97373			5/8	.6250	5/8	4	2-1/8	.030	o	
27862536B	97374			5/8	.6250	5/8	4	2-1/8	.060	o	
27862537B	97375			5/8	.6250	5/8	4	2-1/8	.090	o	
27862538B	97376			5/8	.6250	5/8	4	2-1/8	.120	o	
278625311B	97377			5/8	.6250	5/8	4	2-1/8	.156	o	
27862539B	97378			5/8	.6250	5/8	4	2-1/8	.190	o	
278625312B	97379			5/8	.6250	5/8	4	2-1/8	.250	o	
27862540B	97391			5/8	.6250	5/8	5	2-5/8		o	
27862542B	97392			5/8	.6250	5/8	5	2-5/8	.015	o	
27862544B	97393			5/8	.6250	5/8	5	2-5/8	.030	o	
27862546B	97394			5/8	.6250	5/8	5	2-5/8	.060	o	
27862547B	97395			5/8	.6250	5/8	5	2-5/8	.090	o	
27862548B	97396			5/8	.6250	5/8	5	2-5/8	.120	o	
278625411B	97397			5/8	.6250	5/8	5	2-5/8	.156	o	
27862549B	97398			5/8	.6250	5/8	5	2-5/8	.190	o	
278625412B	97399			5/8	.6250	5/8	5	2-5/8	.250	o	
27862550B	97381			5/8	.6250	5/8	6	2-1/8		o	
27862552B	97382			5/8	.6250	5/8	6	2-1/8	.015	o	
27862554B	97383			5/8	.6250	5/8	6	2-1/8	.030	o	
27862556B	97384			5/8	.6250	5/8	6	2-1/8	.060	o	
27862557B	97385			5/8	.6250	5/8	6	2-1/8	.090	o	
27862558B	97386			5/8	.6250	5/8	6	2-1/8	.120	o	
278625511B	97387			5/8	.6250	5/8	6	2-1/8	.156	o	
27862559B	97388			5/8	.6250	5/8	6	2-1/8	.190	o	
278625512B	97389			5/8	.6250	5/8	6	2-1/8	.250	o	
27862560B	97401			5/8	.6250	5/8	6	3-1/4		o	
27862562B	97402			5/8	.6250	5/8	6	3-1/4	.015	o	
27862564B	97403			5/8	.6250	5/8	6	3-1/4	.030	o	
27862566B	97404			5/8	.6250	5/8	6	3-1/4	.060	o	
27862567B	97405			5/8	.6250	5/8	6	3-1/4	.090	o	
27862568B	97406			5/8	.6250	5/8	6	3-1/4	.120	o	
278625611B	97407			5/8	.6250	5/8	6	3-1/4	.156	o	
27862569B	97408			5/8	.6250	5/8	6	3-1/4	.190	o	
278625612B	97409			5/8	.6250	5/8	6	3-1/4	.250	o	
27862570B	97411			5/8	.6250	5/8	6	4		o	
27862572B	97412			5/8	.6250	5/8	6	4	.015	o	
27862574B	97413			5/8	.6250	5/8	6	4	.030	o	

End Mills



Series 278/278W Continued



ALtima® Blaze		ALtima® Blaze Weldon Flat		Diameter		Shank	OAL	Flute Length		Corner Radius	Stock Status
Tool No.	EDP	Tool No.	EDP	Inch	Decimal	Inch	Inch	Inch	Inch	Inch	• Stocked ○ Non-Stocked
27862576B	97414			5/8	.6250	5/8	6	4	.060	○	
27862577B	97415			5/8	.6250	5/8	6	4	.090	○	
27862578B	97416			5/8	.6250	5/8	6	4	.120	○	
278625711B	97417			5/8	.6250	5/8	6	4	.156	○	
27862579B	97418			5/8	.6250	5/8	6	4	.190	○	
278625712B	97419			5/8	.6250	5/8	6	4	.250	○	
278L62500B	37044	278L62500BW	13616	5/8	.6250	5/8	5	2-1/4		•	
278L62502B	37045	278L62502BW	13617	5/8	.6250	5/8	5	2-1/4	.015	•	
278L62504B	37046	278L62504BW	13618	5/8	.6250	5/8	5	2-1/4	.030	•	
278X62500B	37047	278X62500BW	13619	5/8	.6250	5/8	6	3		•	
278X62502B	37048	278X62502BW	13621	5/8	.6250	5/8	6	3	.015	•	
278X62504B	37049	278X62504BW	13622	5/8	.6250	5/8	6	3	.030	•	
27875000B	97421			3/4	.7500	3/4	3	1		•	
27875002B	97422			3/4	.7500	3/4	3	1	.015	•	
27875004B	97423			3/4	.7500	3/4	3	1	.030	•	
27875006B	97424			3/4	.7500	3/4	3	1	.060	•	
27875007B	97425			3/4	.7500	3/4	3	1	.090	•	
27875008B	97426			3/4	.7500	3/4	3	1	.120	•	
278750011B	97427			3/4	.7500	3/4	3	1	.156	○	
27875009B	97428			3/4	.7500	3/4	3	1	.190	○	
278750012B	97429			3/4	.7500	3/4	3	1	.250	○	
27875010B	37052	27875010BW	13623	3/4	.7500	3/4	4	1-1/2		•	
27875012B	37053	27875012BW	13624	3/4	.7500	3/4	4	1-1/2	.015	•	
27875014B	37054	27875014BW	13627	3/4	.7500	3/4	4	1-1/2	.030	•	
27875016B	37055	27875016BW	13628	3/4	.7500	3/4	4	1-1/2	.060	•	
27875018B	37056	27875018BW	13629	3/4	.7500	3/4	4	1-1/2	.120	•	
27875019B	37079	27875019BW	13632	3/4	.7500	3/4	4	1 1/2	.190	•	
27875020B	97461			3/4	.7500	3/4	4	1-5/8		○	
27875022B	97462			3/4	.7500	3/4	4	1-5/8	.015	○	
27875024B	97463			3/4	.7500	3/4	4	1-5/8	.030	○	
27875026B	97464			3/4	.7500	3/4	4	1-5/8	.060	○	
27875027B	97465			3/4	.7500	3/4	4	1-5/8	.090	○	
27875028B	97466			3/4	.7500	3/4	4	1-5/8	.120	○	
278750211B	97467			3/4	.7500	3/4	4	1-5/8	.156	○	
27875029B	97468			3/4	.7500	3/4	4	1-5/8	.190	○	
278750212B	97469			3/4	.7500	3/4	4	1-5/8	.250	○	



Series 278/278W Continued

ALtima® Blaze		ALtima® Blaze Weldon Flat		Diameter		Shank	OAL	Flute Length	Corner Radius	Stock Status
Tool No.	EDP	Tool No.	EDP	D1		D2 h6	L1	L2	R	• Stocked
				Inch	Decimal	Inch	Inch	Inch	Inch	o Non-Stocked
27875030B	97471			3/4	.7500	3/4	5	2-3/8		o
27875032B	97472			3/4	.7500	3/4	5	2-3/8	.015	o
27875034B	97473			3/4	.7500	3/4	5	2-3/8	.030	o
27875036B	97474			3/4	.7500	3/4	5	2-3/8	.060	o
27875037B	97475			3/4	.7500	3/4	5	2-3/8	.090	o
27875038B	97476			3/4	.7500	3/4	5	2-3/8	.120	o
278750311B	97477			3/4	.7500	3/4	5	2-3/8	.156	o
27875039B	97478			3/4	.7500	3/4	5	2-3/8	.190	o
278750312B	97479			3/4	.7500	3/4	5	2-3/8	.250	o
27875040B	97481			3/4	.7500	3/4	6	2-3/8		o
27875042B	97482			3/4	.7500	3/4	6	2-3/8	.015	o
27875044B	97483			3/4	.7500	3/4	6	2-3/8	.030	o
27875046B	97484			3/4	.7500	3/4	6	2-3/8	.060	o
27875047B	97485			3/4	.7500	3/4	6	2-3/8	.090	o
27875048B	97486			3/4	.7500	3/4	6	2-3/8	.120	o
278750411B	97487			3/4	.7500	3/4	6	2-3/8	.156	o
27875049B	97488			3/4	.7500	3/4	6	2-3/8	.190	o
278750412B	97489			3/4	.7500	3/4	6	2-3/8	.250	o
27875050B	97491			3/4	.7500	3/4	6	3-1/4		o
27875052B	97492			3/4	.7500	3/4	6	3-1/4	.015	o
27875054B	97493			3/4	.7500	3/4	6	3-1/4	.030	o
27875056B	97494			3/4	.7500	3/4	6	3-1/4	.060	o
27875057B	97495			3/4	.7500	3/4	6	3-1/4	.090	o
27875058B	97496			3/4	.7500	3/4	6	3-1/4	.120	o
278750511B	97497			3/4	.7500	3/4	6	3-1/4	.156	o
27875059B	97498			3/4	.7500	3/4	6	3-1/4	.190	o
278750512B	97499			3/4	.7500	3/4	6	3-1/4	.250	o
27875060B	97501			3/4	.7500	3/4	7	4-1/8		o
27875062B	97502			3/4	.7500	3/4	7	4-1/8	.015	o
27875064B	97503			3/4	.7500	3/4	7	4-1/8	.030	o
27875066B	97504			3/4	.7500	3/4	7	4-1/8	.060	o
27875067B	97505			3/4	.7500	3/4	7	4-1/8	.090	o
27875068B	97506			3/4	.7500	3/4	7	4-1/8	.120	o
278750611B	97507			3/4	.7500	3/4	7	4-1/8	.156	o
27875069B	97508			3/4	.7500	3/4	7	4-1/8	.190	o
278750612B	97509			3/4	.7500	3/4	7	4-1/8	.250	o
278L75000B	37057	278L75000BW	13633	3/4	.7500	3/4	5	2-1/4		•
278L75002B	37058	278L75002BW	13634	3/4	.7500	3/4	5	2-1/4	.015	•
278L75004B	37059	278L75004BW	13636	3/4	.7500	3/4	5	2-1/4	.030	•
278X75000B	37060	278X75000BW	13637	3/4	.7500	3/4	6	3		•
278X75002B	37061	278X75002BW	13639	3/4	.7500	3/4	6	3	.015	•
278X75004B	37062	278X75004BW	13656	3/4	.7500	3/4	6	3	.030	•
27810010B	37065	27810010BW	13657	1	1.0000	1	4	1-1/2		•
27810014B	37066	27810014BW	13658	1	1.0000	1	4	1-1/2	.030	•
27810016B	37067	27810016BW	13659	1	1.0000	1	4	1-1/2	.060	•
27810018B	37068	27810018BW	13677	1	1.0000	1	4	1-1/2	.120	•

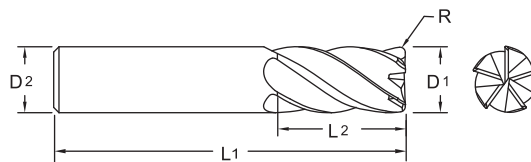
End Mills



Series 278/278W Continued



5
Flute



ALtima® Blaze		ALtima® Blaze Weldon Flat		Diameter		Shank	OAL	Flute Length	Corner Radius	Stock Status		
Tool No.	EDP	Tool No.	EDP	Inch	Decimal	D2 h6	L1	L2	R	● Stocked		
				D1								
				Inch								
				Decimal								
27810019B	37080	27810019BW	14112	1	1.0000	1	4	1-1/2	.190	●		
27810020B	97555			1	1.0000	1	4	1-3/4		○		
27810022B	97556			1	1.0000	1	4	1-3/4	.015	○		
27810024B	97557			1	1.0000	1	4	1-3/4	.030	○		
27810026B	97558			1	1.0000	1	4	1-3/4	.060	○		
27810027B	97559			1	1.0000	1	4	1-3/4	.090	○		
27810028B	97560			1	1.0000	1	4	1-3/4	.120	○		
278100211B	97561			1	1.0000	1	4	1-3/4	.156	○		
27810029B	97562			1	1.0000	1	4	1-3/4	.190	○		
278100212B	97563			1	1.0000	1	4	1-3/4	.250	○		
278100213B	97564			1	1.0000	1	4	1-3/4	.375	○		
27810030B	97566			1	1.0000	1	5	2-5/8		○		
27810032B	97567			1	1.0000	1	5	2-5/8	.015	○		
27810034B	97568			1	1.0000	1	5	2-5/8	.030	○		
27810036B	97569			1	1.0000	1	5	2-5/8	.060	○		
27810037B	97570			1	1.0000	1	5	2-5/8	.090	○		
27810038B	97571			1	1.0000	1	5	2-5/8	.120	○		
278100311B	97572			1	1.0000	1	5	2-5/8	.156	○		
27810039B	97573			1	1.0000	1	5	2-5/8	.190	○		
278100312B	97574			1	1.0000	1	5	2-5/8	.250	○		
278100313B	97575			1	1.0000	1	5	2-5/8	.375	○		
27810040B	97588			1	1.0000	1	6	3-1/4		○		
27810042B	97589			1	1.0000	1	6	3-1/4	.015	○		
27810044B	97590			1	1.0000	1	6	3-1/4	.030	○		
27810046B	97591			1	1.0000	1	6	3-1/4	.060	○		
27810047B	97592			1	1.0000	1	6	3-1/4	.090	○		
27810048B	97593			1	1.0000	1	6	3-1/4	.120	○		
278100411B	97594			1	1.0000	1	6	3-1/4	.156	○		
27810049B	97595			1	1.0000	1	6	3-1/4	.190	○		
278100412B	97596			1	1.0000	1	6	3-1/4	.250	○		
278100413B	97597			1	1.0000	1	6	3-1/4	.375	○		
27810050B	97599			1	1.0000	1	7	4-1/4		○		
27810052B	97600			1	1.0000	1	7	4-1/4	.015	○		
27810054B	97601			1	1.0000	1	7	4-1/4	.030	○		
27810056B	97602			1	1.0000	1	7	4-1/4	.060	○		
27810057B	97603			1	1.0000	1	7	4-1/4	.090	○		



Series 278/278W Continued

ALtima® Blaze		ALtima® Blaze Weldon Flat		Diameter		Shank	OAL	Flute Length		Corner Radius	Stock Status
Tool No.	EDP	Tool No.	EDP	D1		D2 h6	L1	L2	R	• Stocked	
				Inch	Decimal	Inch	Inch	Inch	Inch	o Non-Stocked	
27810058B	97604			1	1.0000	1	7	4-1/4	.120	o	
278100511B	97605			1	1.0000	1	7	4-1/4	.156	o	
27810059B	97606			1	1.0000	1	7	4-1/4	.190	o	
278100512B	97607			1	1.0000	1	7	4-1/4	.250	o	
278100513B	97608			1	1.0000	1	7	4-1/4	.375	o	
278L10000B	37069	278L10000BW	14113	1	1.0000	1	5	2-1/4		•	
278L10002B	37070	278L10002BW	14114	1	1.0000	1	5	2-1/4	.015	•	
278L10004B	37071	278L10004BW	14115	1	1.0000	1	5	2-1/4	.030	•	
278X10000B	37072	278X10000BW	14116	1	1.0000	1	6	3		•	
278X10002B	37073	278X10002BW	14117	1	1.0000	1	6	3	.015	•	
278X10004B	37074	278X10004BW	14118	1	1.0000	1	6	3	.030	•	



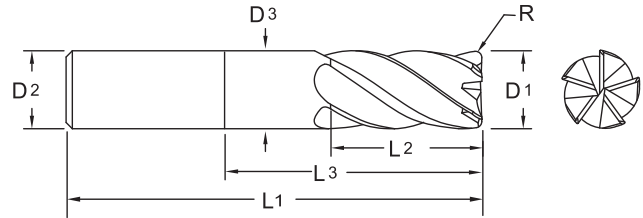
TuffCut® XT Series 278N



5
Flute



- Improved geometries.
- Enhanced corner protection.



ALtima® Blaze		Diameter			Shank		Neck Diameter		OAL		Flute Length		Neck Length		Corner Radius	
		D1			D2 h6		D3		L1		L2		L3		R	
Tool No.	EDP	Inch	mm	Decimal	Inch	mm	Inch	mm	Inch	mm	Inch	mm	Inch	mm	Inch	mm
278 0300N3-0.25RB	27820		3	.1181		6		2.9		57		8		10		0.25
278 0300N3-0.5RB	27822		3	.1181		6		2.9		57		8		10		0.50
278 0400N3-0.25RB	27824		4	.1575		6		3.9		57		11		13		0.25
278 0400N3-0.5RB	27826		4	.1575		6		3.9		57		11		13		0.50
278 0500N3-0.25RB	27828		5	.1968		6		4.9		57		13		16		0.25
278 0500N3-0.5RB	27830		5	.1968		6		4.9		57		13		16		0.50
278 0600N3-0.25RB	27832		6	.2362		6		5.9		57		13		19		0.25
278 0600N3-0.5RB	27834		6	.2362		6		5.9		57		13		19		0.50
278 0600N3-1.0RB	27836		6	.2362		6		5.9		57		13		19		1.00
27825022NB	37011	1/4		.2500	1/4				4		3/4		2-1/8		0.015	
27825024NB	37012	1/4		.2500	1/4				4		3/4		2-1/8		0.030	
278 0800N3-0.25RB	27837		8	.3150		8		7.8		63		19		25		0.25
278 0800N3-0.5RB	27838		8	.3150		8		7.8		63		19		25		0.50
278 0800N3-1.0RB	27840		8	.3150		8		7.8		63		19		25		1.00
278 0800N3-2.0RB	27842		8	.3150		8		7.8		63		19		25		2.00
27837522NB	37023	3/8		.3750	3/8				4		1		2-1/8		0.015	
27837524NB	37024	3/8		.3750	3/8				4		1		2-1/8		0.030	
278 1000N3-0.5RB	27844		10	.3937		10		9.8		72		22		31		0.50
278 1000N3-1.0RB	27846		10	.3937		10		9.8		72		22		31		1.00
278 1000N3-2.0RB	27848		10	.3937		10		9.8		72		22		31		2.00
278 1200N3-0.5RB	27850		12	.4724		12		11.4		84		26		38		0.50
278 1200N3-1.0RB	27852		12	.4724		12		11.4		84		26		38		1.00
278 1200N3-1.5RB	27854		12	.4724		12		11.4		84		26		38		1.50
278 1200N3-2.5RB	27856		12	.4724		12		11.4		84		26		38		2.50
278 1200N3-3.0RB	27858		12	.4724		12		11.4		84		26		38		3.00
278 1200N3-4.0RB	27860		12	.4724		12		11.4		84		26		38		4.00
27850022NB	37037	1/2		.5000	1/2				4		1-1/4		2-1/8		0.015	
27850024NB	37038	1/2		.5000	1/2				4		1-1/4		2-1/8		0.030	

Inch	
D1	Tolerance
1/4	+0.000/-0.002
>1/4-3/4	+0.000/-0.003

Metric (mm)	
D1	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
>18.00-25.00	+0.000/-0.084

Inch	
D2	Tolerance (h6)
.1182 - .2362	+0/-0.00031
.2363 - .3937	+0/-0.00035
.3938 - .7087	+0/-0.00043
.7088 - .7500	+0/-0.00051

Metric (mm)	
D2	Tolerance (h6)
6.0	+0/-0.008
6.01 - 10.0	+0/-0.009
10.01 - 18.0	+0/-0.011
18.01 - 25.0	+0/-0.013

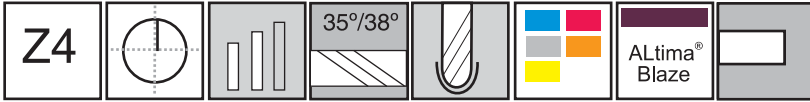


ALtima® Blaze		Diameter			Shank		Neck Diameter		OAL		Flute Length		Neck Length		Corner Radius	
		D1			D2 h6		D3		L1		L2		L3		R	
Tool No.	EDP	Inch	mm	Decimal	Inch	mm	Inch	mm	Inch	mm	Inch	mm	Inch	mm	Inch	mm
27862522NB	37050	5/8		.6250	5/8				4		1-1/2		2-1/8		0.015	
27862524NB	37051	5/8		.6250	5/8				4		1-1/2		2-1/8		0.030	
278 1600N3-0.5RB	27870		16	.6299		16		15.2		100		35		50		0.50
278 1600N3-1.0RB	27872		16	.6299		16		15.2		100		35		50		1.00
278 1600N3-1.5RB	27874		16	.6299		16		15.2		100		35		50		1.50
278 1600N3-2.5RB	27876		16	.6299		16		15.2		100		35		50		2.50
278 1600N3-3.0RB	27878		16	.6299		16		15.2		100		35		50		3.00
278 1600N3-4.0RB	27880		16	.6299		16		15.2		100		35		50		4.00
278 1600N4-1.0RB	27871		16	.6299		16		15.2		117		35		65		1.00
278 1600N4-3.0RB	27873		16	.6299		16		15.2		117		35		65		3.00
278 1600N5-1.0RB	27875		16	.6299		16		15.2		133		35		82		1.00
278 1600N5-3.0RB	27877		16	.6299		16		15.2		133		35		82		3.00
27875022NB	37063	3/4		.7500	3/4				5		1-7/8		3		0.015	
27875024NB	37064	3/4		.7500	3/4				5		1-7/8		3		0.030	
278 2000N3-1.0RB	27890		20	.7874		20		19.2		112		40		62		1.00
278 2000N3-2.0RB	27906		20	.7874		20		19.2		112		40		62		2.00
278 2000N3-3.0RB	27892		20	.7874		20		19.2		112		40		62		3.00
278 2000N3-4.0RB	27894		20	.7874		20		19.2		112		40		62		4.00
278 2000N4-1.0RB	27891		20	.7874		20		19.2		133		40		82		1.00
278 2000N4-3.0RB	27893		20	.7874		20		19.2		133		40		82		3.00
278 2000N5-1.0RB	27895		20	.7874		20		19.2		152		40		102		1.00
278 2000N5-3.0RB	27897		20	.7874		20		19.2		152		40		102		3.00
278 2500N3-1.0RB	27896		25	.9843		25		24.6		127		40		77		1.00
278 2500N3-3.0RB	27898		25	.9843		25		24.6		127		40		77		3.00
278 2500N3-4.0RB	27900		25	.9843		25		24.6		127		40		77		4.00
278 2500N4-1.0RB	27899		25	.9843		25		24.6		152		40		102		1.00
278 2500N4-3.0RB	27901		25	.9843		25		24.6		152		40		102		3.00
278 2500N5-1.0RB	27902		25	.9843		25		24.6		180		40		125		1.00
278 2500N5-3.0RB	27903		25	.9843		25		24.6		180		40		125		3.00

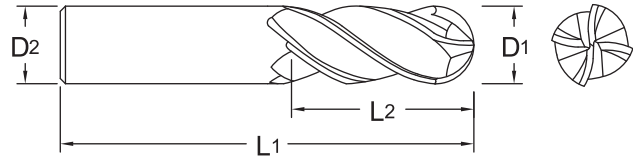
End Mills

Safety Note
 Always wear the appropriate personal protective equipment such as safety glasses and protective clothing when using solid carbide or HSS cutting tools. Machines should be fully guarded. Technical data provided should be considered advisory only as variations may be necessary depending on the particular application.

TuffCut® XT Series 279



**4
Flute
Ball**



- ALtima® Blaze coated.
- Enhanced cutting edge quality.
- Variable helix and flute spacing for improved machining harmonics.

ALtima® Blaze		Diameter			Shank		OAL		Flute Length	
		D1			D2 h6		L1		L2	
Tool Number	EDP	Fraction	mm	Decimal	Inch	mm	Inch	mm	Inch	mm
279M0300B	27938		3	.1181		6		57		8
27912500B	27910	1/8		.1250	1/8		1-1/2		1/4	
27912510B	27912	1/8		.1250	1/8		1-1/2		3/8	
279M0400B	27940		4	.1575		6		57		11
27918700B	27914	3/16		.1875	3/16		2		3/8	
27918710B	27916	3/16		.1875	3/16		2		5/8	
279M0500B	27942		5	.1968		6		57		13
279M0600B	27944		6	.2362		6		57		13
27925000B	27918	1/4		.2500	1/4		2		3/8	
27925010B	27920	1/4		.2500	1/4		2-1/2		3/4	
27931200B	27922	5/16		.3125	5/16		2		1/2	
27931210B	27924	5/16		.3125	5/16		2-1/2		13/16	
279M0800B	27946		8	.3150		8		63		19
27937500B	27926	3/8		.3750	3/8		2		1/2	
27937510B	27928	3/8		.3750	3/8		2-1/2		7/8	
279M1000B	27948		10	.3937		10		72		22
279M1200B	27950		12	.4724		12		83		26
27950000B	27930	1/2		.5000	1/2		2-1/2		5/8	
27950010B	27932	1/2		.5000	1/2		3		1-1/4	
27962510B	27934	5/8		.6250	5/8		3-1/2		1-1/4	
279M1600B	27952		16	.6299		16		92		32
27975010B	27936	3/4		.7500	3/4		4		1-1/2	

Inch	
D1	Tolerance
1/16-1/4	+0/-0.002
> 1/4-3/4	+0/-0.003

Metric (mm)	
D1	Tolerance h10
3.00	+0/-0.040
>3.00-6.00	+0/-0.048
>6.00-10.00	+0/-0.058
>10.00-16.00	+0/-0.070

Inch	
D2	Tolerance (h6)
.1182 - .2362	+0/-0.00031
.2363 - .3937	+0/-0.00035
.3938 - .7087	+0/-0.00043
.7088 - .7500	+0/-0.00051

Metric (mm)	
D2	Tolerance (h6)
3	+0/-0.006
3.01 - 6.0	+0/-0.008
6.01 - 10.0	+0/-0.009
10.01 - 16.0	+0/-0.011

