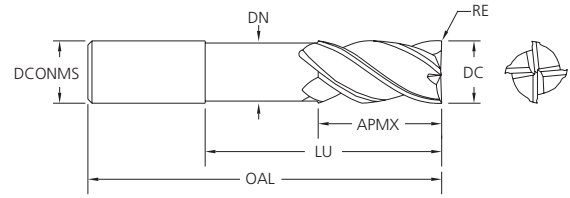


TuffCut® XT - Series 277N



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

ALtima® Blaze		DC		DCONMS	DN	OAL	APMX	LU	RE	Reach
Tool No.	EDP	Inch	Decimal	Inch	Inch	Inch	Inch	Inch	Inch	LU/DC
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

TuffCut® End Mills Series 277N

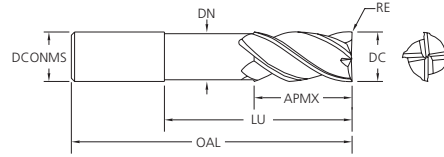
Inch	
DC	Tolerance
1/8 - 1/4	+0.000/-0.002
>1/4 - 1	+0.000/-0.003

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

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



TuffCut® XT - Series 277N *Continued*



ALtima® Blaze		DC		DCONMS	DN	OAL	APMX	LU	RE	Reach
Tool No.	EDP	Inch	Decimal	Inch	Inch	Inch	Inch	Inch	Inch	LU/DC
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
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

TuffCut® End Mills
Series 277N



Altima® Blaze		DC		DCONMS	DN	OAL	APMX	LU	RE	Reach
Tool No.	EDP	Inch	Decimal	Inch	Inch	Inch	Inch	Inch	Inch	LU/DC
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
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

TuffCut® End Mills Series 277N

TuffCut® XT - Series 277 Sets

Altima® Blaze		Diameter in Sets	End
Tool No.	EDP		
27700000B	27699	1/8", 1/4", 3/8", 1/2"	Sq. End
27700002B	27698	1/8", 1/4", 3/8", 1/2"	.015 R

