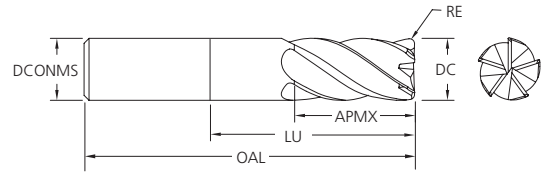


TuffCut® XR - Series 178N


TuffCut® End Mills
Series 178N

ALtima®		DC		DCONMS	OAL	APMX	LU	RE
Tool No.	EDP	Inch	Decimal	Inch	Inch	Inch	Inch	Inch
17825022NA	17833	1/4	.2500	1/4	4	3/4	2-1/8	0.015
17825024NA	17834	1/4	.2500	1/4	4	3/4	2-1/8	0.030
17831222NA	17841	5/16	.3125	5/16	4	1	2-1/8	0.015
17831224NA	17842	5/16	.3125	5/16	4	1	2-1/8	0.030
17837522NA	17849	3/8	.3750	3/8	4	1	2-1/8	0.015
17837524NA	17850	3/8	.3750	3/8	4	1	2-1/8	0.030
17837532NA	17851	3/8	.3750	3/8	6	1-1/4	3-3/8	0.015
17837534NA	17852	3/8	.3750	3/8	6	1-1/4	3-3/8	0.030
17843722NA	17859	7/16	.4375	7/16	4	1-1/4	2-1/8	0.015
17843724NA	17860	7/16	.4375	7/16	4	1-1/4	2-1/8	0.030
17843732NA	17861	7/16	.4375	7/16	6	1-1/2	3-3/8	0.015
17843734NA	17862	7/16	.4375	7/16	6	1-1/2	3-3/8	0.030
17850022NA	17925	1/2	.5000	1/2	4	1-1/4	2-1/8	0.015
17850024NA	17870	1/2	.5000	1/2	4	1-1/4	2-1/8	0.030
17850032NA	17871	1/2	.5000	1/2	5	1-3/8	3-1/8	0.015
17850034NA	17872	1/2	.5000	1/2	5	1-3/8	3-1/8	0.030
17850042NA	17873	1/2	.5000	1/2	6	1-1/2	4-1/8	0.015
17850044NA	17874	1/2	.5000	1/2	6	1-1/2	4-1/8	0.030
17862522NA	18008	5/8	.6250	5/8	4	1-1/2	2-1/8	0.015
17862524NA	17881	5/8	.6250	5/8	4	1-1/2	2-1/8	0.030
17862525NA	17882	5/8	.6250	5/8	4	1-1/2	2-1/8	0.045
17862532NA	18009	5/8	.6250	5/8	5	1-3/4	3-1/8	0.015
17862534NA	17883	5/8	.6250	5/8	5	1-3/4	3-1/8	0.030
17862535NA	17884	5/8	.6250	5/8	5	1-3/4	3-1/8	0.045
17862542NA	18010	5/8	.6250	5/8	6	2	4	0.015
17862544NA	17885	5/8	.6250	5/8	6	2	4	0.030
17862545NA	17886	5/8	.6250	5/8	6	2	4	0.045
17875022NA	18013	3/4	.7500	3/4	5	1-7/8	3	0.015
17875024NA	17891	3/4	.7500	3/4	5	1-7/8	3	0.030
17875025NA	17892	3/4	.7500	3/4	5	1-7/8	3	0.045
17875032NA	18014	3/4	.7500	3/4	6	2-1/4	4	0.015
17875034NA	17893	3/4	.7500	3/4	6	2-1/4	4	0.030
17875035NA	17894	3/4	.7500	3/4	6	2-1/4	4	0.045
17810022NA	18016	1	1.0000	1	5	2-1/4	3	0.015
17810024NA	17897	1	1.0000	1	5	2-1/4	3	0.030
17810025NA	17898	1	1.0000	1	5	2-1/4	3	0.045
17810032NA	18017	1	1.0000	1	6	3	4	0.015
17810034NA	17899	1	1.0000	1	6	3	4	0.030
17810035NA	17900	1	1.0000	1	6	3	4	0.045

Inch	
DC	Tolerance
1/4	+0.000/-0.002
> 1/4 - 1.0	+0.000/-0.003

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

Inch	
RE	Tolerance
1/4 - 1	+0.0000/-0.0016

