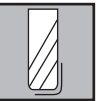
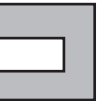
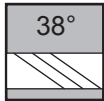
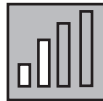


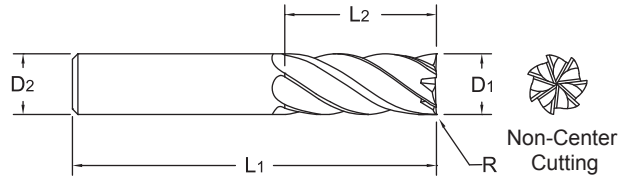
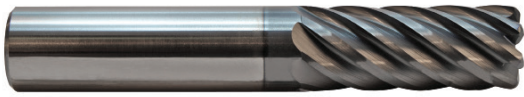
TuffCut® XR7 Series 180

Z7



7
Flute

40% increase in productivity over a 5 flute tool.



- Designed specifically for Titanium, Inconel and similar materials.
- ALtima® Blaze coating for increased performance.

For Long and X-Long lengths see Series 180CB Chipbreaker on page 209.



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ALtima® Blaze		Diameter			Shank		OAL		Flute Length		Corner Radius	
		D1			D2 (h6)		L1		L2		R	
Tool No.	EDP	Inch	mm	Decimal	Inch	mm	Inch	mm	Inch	mm	Inch	mm
18023600B	18936		6	.2362	6	6		57		13		
18023601B	18938		6	.2362	6	6		57		13		0.5
18025000B	18900	1/4		.2500	1/4		2		3/8			
18025002B	18901	1/4		.2500	1/4		2		3/8		.015	
18025010B	18902	1/4		.2500	1/4		2-1/2		3/4			
18025011B	18967	1/4		.2500	1/4		2-1/2		3/4		.010	
18025012B	18903	1/4		.2500	1/4		2-1/2		3/4		.015	
18025013B	18968	1/4		.2500	1/4		2-1/2		3/4		.020	
18031500B	18944		8	.3150	8	8		63		19		
18031501B	18946		8	.3150	8	8		63		19		0.5
18037500B	18908	3/8		.3750	3/8		2-1/2		1/2			
18037502B	18909	3/8		.3750	3/8		2-1/2		1/2		.015	
18037504B	18932	3/8		.3750	3/8		2-1/2		1/2		.030	
18037510B	18910	3/8		.3750	3/8		2-1/2		1			
18037511B	18969	3/8		.3750	3/8		2-1/2		1		.010	
18037512B	18911	3/8		.3750	3/8		2-1/2		1		.015	
18037513B	18970	3/8		.3750	3/8		2-1/2		1		.020	
18037514B	18934	3/8		.3750	3/8		2-1/2		1		.030	
18039300B	18940		10	.3937	10	10		72		22		
18039301B	18942		10	.3937	10	10		72		22		0.5
18047201B	18501		12	.4724	12	12		84		32		0.5
18047203B	18503		12	.4724	12	12		84		32		1.0
18047205B	18505		12	.4724	12	12		84		32		2.0
18047207B	18507		12	.4724	12	12		84		32		3.0
18047209B	18508		12	.4724	12	12		84		32		4.0
18050000B	18512	1/2		.5000	1/2		3		5/8			
18050002B	18515	1/2		.5000	1/2		3		5/8		.015	
18050004B	18517	1/2		.5000	1/2		3		5/8		.030	
18050006B	18519	1/2		.5000	1/2		3		5/8		.060	
18050007B	18521	1/2		.5000	1/2		3		5/8		.090	
18050008B	18523	1/2		.5000	1/2		3		5/8		.125	
18050010B	18514	1/2		.5000	1/2		3		1-1/4			
18050011B	18971	1/2		.5000	1/2		3		1-1/4		.010	
18050012B	18516	1/2		.5000	1/2		3		1-1/4		.015	
18050013B	18972	1/2		.5000	1/2		3		1-1/4		.020	
18050014B	18518	1/2		.5000	1/2		3		1-1/4		.030	

Inch	
D1	Tolerance
.2362	+0/- .0017
.2363-.3937	+0/- .0020
.3938-1.0000	+0/- .0025

Metric (mm)	
D1	Tolerance
6.00	+0/- .043
6.01-.10.00	+0/- .051
10.01-.20.00	+0/- .064

Inch	
D2	Tolerance (h6)
.2362	+0/- .00031
.2363-.3937	+0/- .00035
.3938-.7087	+0/- .00043
.7088-1.0000	+0/- .00051

Metric (mm)	
D2	Tolerance (h6)
6.00	+0/- .008
6.01-.10.00	+0/- .009
10.01-.18.00	+0/- .011
18.01-20.00	+0/- .013

Inch	
R	Tolerance
1/4 - 1	+ .001/- .001

Metric (mm)	
R	Tolerance
6.0 - 20.0	+ .025/- .025

ALtima® Blaze	
Featuring high temperature hardness and oxidation resistance that provides extreme wear resistance under all machining conditions	
Coating Properties	
Micro Hardness (HV)	3200
Max. Working Temperature	1100°C 2012°F
Friction Coefficient	0.35

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TuffCut® XT / XR7

HIGH PERFORMANCE