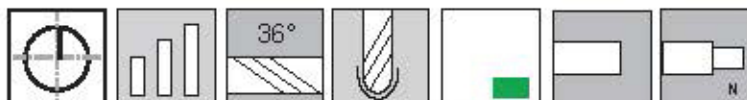


TuffCut® X-AL Series 138BN

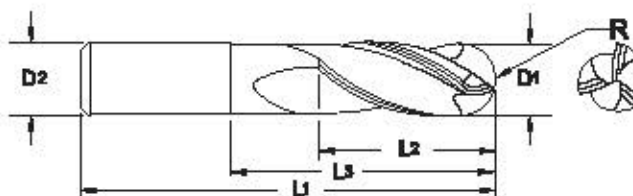
Z3



3
Flute
Ball



- Straight neck.



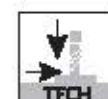
Uncoated Necked		Diameter			Shank		OAL		Flute Length		Neck Length	
Tool No.	EDP	D1			D2 (h6)		L1		L2		L3	
		Inch	mm	Decimal	Inch	mm	Inch	mm	Inch	mm	Inch	mm
138B0787N5	13372		2.0	.0787		6.0		75.0		4.0		12.0
138B1181N5	13374		3.0	.1181		6.0		75.0		5.0		17.0
138B1575N5	13376		4.0	.1575		6.0		75.0		6.0		22.0
138B1968N5	13378		5.0	.1968		6.0		75.0		7.0		27.0
138B2362N5	13380		6.0	.2362		6.0		110.0		8.0		32.0
138B25001N	13342	1/4		.2500	1/4		4		3/4		2-1/8	
138B31251N	13344	5/16		.3125	5/16		4		13/16		2-1/8	
138B3150N5	13382		8.0	.3150		8.0		110.0		10.0		42.0
138B37501N	13346	3/8		.3750	3/8		4		1		2-1/8	
138B3937N5	13384		10.0	.3937		10.0		110.0		12.0		52.0
138B4724N5	13386		12.0	.4724		12.0		120.0		16.0		62.0
138B50001N	13348	1/2		.5000	1/2		4		1-1/4		2-1/8	
138B62501N	13350	5/8		.6250	5/8		6		1-5/8		3-3/8	
138B6299N5	13388		16.0	.6299		16.0		130.0		20.0		82.0
138B75001N	13352	3/4		.7500	3/4		6		1-5/8		3-3/8	
138B10000N	13354	1		1.0000	1		6		1-1/2		3-1/4	

Inch	
D1	Tolerance
1/4 - 1.0	+ .0000/- .0005

Metric (mm)	
D1	Tolerance
2.00 - 16.00	+ .000/- .013

Inch	
R	Tolerance
1/4 - 1	+ .0004/- .0004

Metric (mm)	
R	Tolerance
2.0 - 16.0	+ .01/- .01



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TuffCut® X-AL

HIGH PERFORMANCE

ISO 9001:2015 Certified