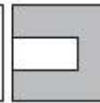
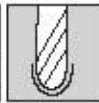
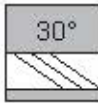
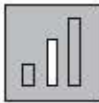


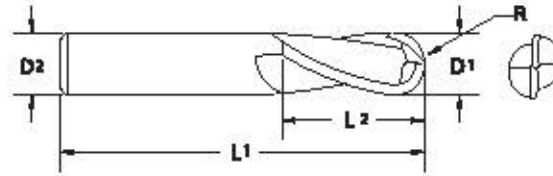
**TuffCut® GP
Series 150**

Z2



**2
Flute
Ball**

Manufactured with a full ball radius end. Designed for milling fillets or similar rounded corners in the bottom of a cut. Ideal for most ferrous metal applications.



• Micro sizes available.

Tool No.	EDP	Diameter			Shank		OAL		Flute Length	
		D1			D2		L1		L2	
		Inch	mm	Decimal	Inch	mm	Inch	mm	Inch	mm
15001500	15002			.0150	1/8		1-1/2		.045	
15001570	15038		0.4	.0157		3		38		1.2
15001960	15040		0.5	.0196		3		38		1.5
15002000	15004			.0200	1/8		1-1/2		.060	
15002360	15042		0.6	.0236		3		38		1.8
15002500	15006			.0250	1/8		1-1/2		.075	
15002750	15044		0.7	.0275		3		38		2.1
15003000	15008			.0300	1/8		1-1/2		.090	
15003120	15001	1/32		.0312	1/8		1-1/2		.564	
15003150	15046		0.8	.0315		3		38		2.4
15003500	15010			.0350	1/8		1-1/2		.105	
15003540	15048		0.9	.0354		3		38		2.7
15003940	15003		1.0	.0394		3		38		3.0
15004000	15012			.0400	1/8		1-1/2		.120	
15004330	15052		1.1	.0433		3		38		3.3
15004500	15014			.0450	1/8		1-1/2		.135	
15004680	15005	3/64		.0468	1/8		1-1/2		.764	
15004720	15054		1.2	.0472		3		38		3.6
15005000	15016			.0500	1/8		1-1/2		.150	
15005120	15056		1.3	.0512		3		38		3.9
15005500	15018			.0550	1/8		1-1/2		.165	
15005510	15058		1.4	.0551		3		38		4.2
15005910	15007		1.5	.0591		3		38		6.0
15005911	15060		1.5	.0591		3		38		4.5
15006000	15020			.0600	1/8		1-1/2		.180	
15006250	15009	1/16		.0625	1/8		1-1/2		3/16	
15006300	15062		1.6	.0630		3		38		4.8
15006500	15022			.0650	1/8		1-1/2		.195	
15006690	15064		1.7	.0669		3		38		5.1
15007000	15024			.0700	1/8		1-1/2		.210	
15007090	15066		1.8	.0709		3		38		5.4
15007480	15068		1.9	.0748		3		38		5.7

Inch	
D1	Tolerance
1/32 - 1/4	+0.000/-0.002
>1/4 - 1	+0.000/-0.003
D1 Micro Sizes*	Tolerance
.015 - .100	+0.0005/-0.0005

*Inch decimal size range .015-.100" only.

Metric (mm)	
D1	Tolerance h10
0.40 - 0.50	+0.000/-0.025
0.60 - 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	
R	Tolerance
≤1/16	+0.001/-0.001
>1/16 - 1/8	+0.002/-0.002
>1/8	+0.003/-0.003

Metric (mm)	
R	Tolerance
≤1.5	+0.025/-0.025
1.6 - 3.0	+0.050/-0.050
>3.0	+0.075/-0.075

Series 150 coated tools on page 306.



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TuffCut® GP

GENERAL PURPOSE