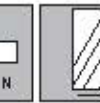
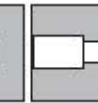
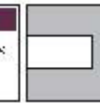
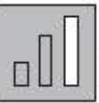
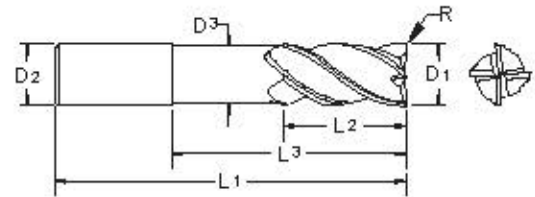


**TuffCut® XR
Series 177L**

Z4



**4
Flute**



- Variable helix.

Alti ma ^x		Diameter		Shank	Neck Dia.	OAL	Flute Length	Neck Length	Corner Radius
		D1 (h 10)	D1 (h 10)	D2 (h6)	D3	L1	L2	L3	R
Tool No.	EDP	mm	Decimal	mm	mm	mm	mm	mm	mm
177L2360R010N5A	18186	6	2362	6	5.8	101	12	31	0.25
177L2360R020N5A	18183	6	2362	6	5.8	101	12	31	0.5
177L2360R039N5A	18184	6	2362	6	5.8	101	12	31	1.0
177L3150R020N5A	18187	8	3150	8	7.6	101	16	41	0.5
177L3150R039N5A	18194	8	3150	8	7.6	101	16	41	1.0
177L3150R078N5A	18195	8	3150	8	7.6	101	16	41	2.0
177L3150R118N5A	18196	8	3150	8	7.6	101	16	41	3.0
177L3930R020N5A	18188	10	3937	10	9.6	127	20	51	0.5
177L3930R039N5A	18197	10	3937	10	9.6	127	20	51	1.0
177L3930R078N5A	18198	10	3937	10	9.6	127	20	51	2.0
177L3930R118N5A	18199	10	3937	10	9.6	127	20	51	3.0
177L4720R020N5A	18189	12	4724	12	11.4	152	24	62	0.5
177L4720R039N5A	18176	12	4724	12	11.4	152	24	62	1.0
177L4720R078N5A	18177	12	4724	12	11.4	152	24	62	2.0
177L4720R118N5A	18190	12	4724	12	11.4	152	24	62	3.0
177L4720R157N5A	18178	12	4724	12	11.4	152	24	62	4.0
177L6290R020N5A	18181	16	6299	16	15.2	152	32	82	0.5
177L6290R039N5A	18191	16	6299	16	15.2	152	32	82	1.0
177L6290R078N5A	18179	16	6299	16	15.2	152	32	82	2.0
177L6290R118N5A	18180	16	6299	16	15.2	152	32	82	3.0
177L7870R020N5A	18182	20	7874	20	19.2	152	40	102	0.5
177L7870R039N5A	18192	20	7874	20	19.2	152	40	102	1.0
177L7870R118N5A	18193	20	7874	20	19.2	152	40	102	3.0

Inch sizes available upon request.

Metric (mm)	
D1	Tolerance (h 10)
6.00	+0.00/- .048
>6.00 - 10.00	+0.00/- .058
>10.00 - 18.00	+0.00/- .070
>18.00 - 20.00	+0.00/- .084

Metric (mm)	
D2	Tolerance (h6)
6.0	+0/- .008
6.01 - 10.0	+0/- .009
10.01 - 18.0	+0/- .011
18.01 - 20.0	+0/- .013

Metric (mm)	
R	Tolerance
6.0 - 20.0	+0.0/- .10



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TuffCut® XR

HIGH PERFORMANCE