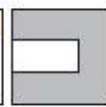
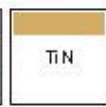
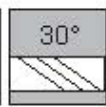
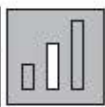


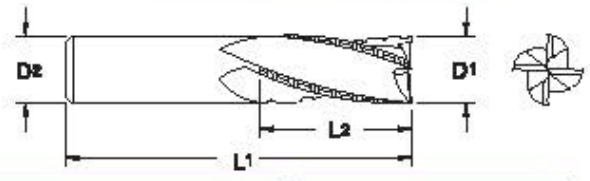
4  
Flute

**TuffCut® GP  
Series 114**



Chipbreaker end mill designed for aggressive milling of most materials.

- Allows high feed rates when roughing.
- Designed to minimize cutting forces, reduce or eliminate chatter and prolong tool life.
- Designed with tooth overlap to produce smooth part finish.



Uncoated		TiN		Diameter			Shank		OAL		Flute Length	
Tool No.	EDP	Tool No.	EDP	D1			D2		L1		L2	
				Inch	mm	Decimal	Inch	mm	Inch	mm	Inch	mm
11411810	11403	11411810T	11404		3.0	.1181		3.0		38		12.0
11412500	11405	11412500T	11406	1/8		.1250	1/8		1-1/2		3/8	
11413780	11407				3.5	.1378		4.0		51		12.0
11415620	11409			5/32		.1562	3/16		2		1/2	
11415750	11411				4.0	.1575		4.0		51		14.0
11417720	11413				4.5	.1772		5.0		51		14.0
11418750	11415	11418750T	11416	3/16		.1875	3/16		2		5/8	
11419680	11417	11419680T	11418		5.0	.1968		5.0		51		20.0
11421650	11419				5.5	.2165		6.0		64		20.0
11421870	11421			7/32		.2187	1/4		2-1/2		5/8	
11423620	11423	11423620T	11424		6.0	.2362		6.0		64		20.0
11425000	11425	11425000T	11426	1/4		.2500	1/4		2-1/2		3/4	
11427560	11427				7.0	.2756		8.0		64		20.0
11428120	11429			9/32		.2812	5/16		2-1/2		3/4	
11431250	11431	11431250T	11432	5/16		.3125	5/16		2-1/2		13/16	
11431500	11433	11431500T	11434		8.0	.3150		8.0		64		20.0
11435430	11435				9.0	.3543		9.0		64		20.0
11437500	11437	11437500T	11438	3/8		.3750	3/8		2-1/2		1	
11439370	11439	11439370T	11440		10.0	.3937		10.0		70		25.0
11443310	11441				11.0	.4331		11.0		70		25.0
11443750	11443	11443750T	11444	7/16		.4375	7/16		2-3/4		1	
11447240	11445	11447240T	11446		12.0	.4724		12.0		76		25.0
11450000	11447	11450000T	11448	1/2		.5000	1/2		3		1	
11455120	11449				14.0	.5512		14.0		89		30.0
11456250	11451			9/16		.5625	9/16		3-1/2		1-1/8	
11462500	11453	11462500T	11454	5/8		.6250	5/8		3-1/2		1-1/4	
11462990	11455	11462990T	11456		16.0	.6299		16.0		89		30.0
11470870	11457	11470870T	11458		18.0	.7087		18.0		102		35.0
11475000	11459	11475000T	11460	3/4		.7500	3/4		4		1-1/2	
11478740	11461	11478740T	11462		20.0	.7874		20.0		102		38.0
11486620	11463				22.0	.8662		22.0		102		40.0
11487500	11465			7/8		.8750	7/8		4		1-1/2	
11498430	11467				25.0	.9843		25.0		102		40.0
11410000	11401			1		1.0000	1		4		1-1/2	

Inch	
D1	Tolerance
1/8 - 1/4	+0.000/-0.002
> 1/4 - 1	+0.000/-0.003

Metric (mm)	
D1	Tolerance h10
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

