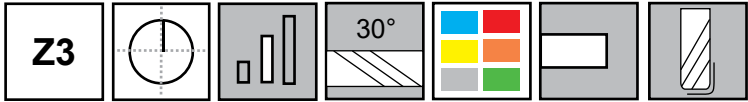
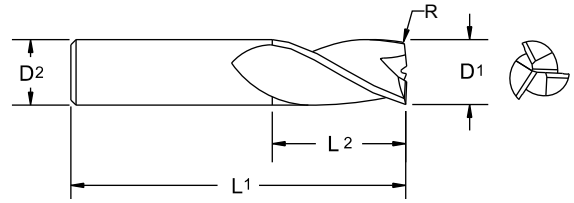




**TuffCut® GP
Series 116**



NEW
**Corner Radius Options
Now Available As Standards!**



Tool No.	EDP	Diameter			Shank		OAL		Flute Length		Corner Radius
		D1			D2		L1		L2		R
		Inch	mm	Decimal	Inch	mm	Inch	mm	Inch	mm	Inch
11601560	11601	1/64		.0156	1/8		1-1/2		1/32		
11603120	11603	1/32		.0312	1/8		1-1/2		5/64		
11603940	11605		1.0	.0394		3.0		38		3.0	
11604680	11607	3/64		.0468	1/8		1-1/2		7/64		
11605910	11609		1.5	.0591		3.0		38		6.0	
11606250	11611	1/16		.0625	1/8		1-1/2		3/16		
NEW 11606250R.005	16197	1/16		.0625	1/8		1-1/2		3/16		.005
11606250R.010	16102	1/16		.0625	1/8		1-1/2		3/16		.010
11606250R.015	16104	1/16		.0625	1/8		1-1/2		3/16		.015
11606250R.020	16106	1/16		.0625	1/8		1-1/2		3/16		.020
NEW 11607810	11613	5/64		.0781	1/8		1-1/2		3/16		
11607810R.005	16198	5/64		.0781	1/8		1-1/2		3/16		.005
11607810R.010	16108	5/64		.0781	1/8		1-1/2		3/16		.010
11607810R.015	16110	5/64		.0781	1/8		1-1/2		3/16		.015
11607810R.020	16112	5/64		.0781	1/8		1-1/2		3/16		.020
11607870	11615		2.0	.0787		3.0		38		9.0	
NEW 11609370	11617	3/32		.0937	1/8		1-1/2		9/32		
11609370R.005	16199	3/32		.0937	1/8		1-1/2		9/32		.005
11609370R.010	16114	3/32		.0937	1/8		1-1/2		9/32		.010
11609370R.015	16116	3/32		.0937	1/8		1-1/2		9/32		.015
11609370R.020	16118	3/32		.0937	1/8		1-1/2		9/32		.020
11609840	11619		2.5	.0984		3.0		38		12.0	
11610930	11623	7/64		.1093	1/8		1-1/2		3/8		
11611810	11625		3.0	.1181		3.0		38		12.0	
11612500	11627	1/8		.1250	1/8		1-1/2		3/8		
NEW 11612500R.005	16202	1/8		.1250	1/8		1-1/2		3/8		.005
11612500R.010	16120	1/8		.1250	1/8		1-1/2		3/8		.010
11612500R.015	16122	1/8		.1250	1/8		1-1/2		3/8		.015
11612500R.020	16124	1/8		.1250	1/8		1-1/2		3/8		.020
11612501	11630	1/8		.1250	1/8		1-1/2		1/2		
11613780	11633		3.5	.1378		4.0		51		12.0	
11614060	11634	9/64		.1406	3/16		2		1/2		
11615620	11635	5/32		.1562	3/16		2		1/2		
11615750	11637		4.0	.1575		4.0		51		14.0	
11617190	11638	11/64		.1719	3/16		2		5/8		

Inch	
D1	Tolerance
1/64	+ .000/- .001
1/32 - 1/4	+ .000/- .002
>1/4 - 1-1/4	+ .000/- .003

Metric (mm)	
D1	Tolerance h10
1.00 - 3.00	+ .000/- .040
>3.00 - 6.00	+ .000/- .048
>6.00 - 10.00	+ .000/- .058
>10.00 - 18.00	+ .000/- .070
>18.00 - 30.00	+ .000/- .084
32.00	+ .000/- .100

Series 116 Continued



Tool No.	EDP	Diameter			Shank		OAL		Flute Length		Corner Radius
		D1			D2		L1		L2		R
		Inch	mm	Decimal	Inch	mm	Inch	mm	Inch	mm	Inch
11617720	11639		4.5	.1772		5.0		51		14.0	
11618750	11641	3/16		.1875	3/16		2		5/8		
11619680	11643		5.0	.1968		5.0		51		20.0	
11620310	11644	13/64		.2031	1/4		2-1/2		5/8		
11621650	11645		5.5	.2165		6.0		64		20.0	
11621870	11647	7/32		.2187	1/4		2-1/2		5/8		
11623440	11648	15/64		.2344	1/4		2-1/2		3/4		
11623620	11649		6.0	.2362		6.0		64		20.0	
11625000	11651	1/4		.2500	1/4		2-1/2		3/4		
11627560	11653		7.0	.2756		8.0		64		20.0	
11628120	11655	9/32		.2812	5/16		2-1/2		3/4		
11631250	11657	5/16		.3125	5/16		2-1/2		13/16		
11631500	11659		8.0	.3150		8.0		64		20.0	
11635430	11661		9.0	.3543		9.0		64		20.0	
11637500	11663	3/8		.3750	3/8		2-1/2		1		
11639370	11665		10.0	.3937		10.0		70		25.0	
11643310	11667		11.0	.4331		11.0		70		25.0	
11643750	11669	7/16		.4375	7/16		2-3/4		1		
11647240	11671		12.0	.4724		12.0		76		25.0	
11650000	11673	1/2		.5000	1/2		3		1		
11655120	11675		14.0	.5512		14.0		89		30.0	
11656250	11677	9/16		.5625	9/16		3-1/2		1-1/8		
11662500	11679	5/8		.6250	5/8		3-1/2		1-1/4		
11662990	11681		16.0	.6299		16.0		89		30.0	
11670870	11683		18.0	.7087		18.0		102		35.0	
11675000	11685	3/4		.7500	3/4		4		1-1/2		
11678740	11687		20.0	.7874		20.0		102		38.0	
11686620	11689		22.0	.8662		22.0		102		40.0	
11687500	11691	7/8		.8750	7/8		4		1-1/2		
11698430	11693		25.0	.9843		25.0		102		40.0	
11610000	11621	1		1.0000	1		4		1-1/2		
11612510	11629	1-1/4		1.2500	1-1/4		4-3/8		1-9/16		
11612600	11631		32.0	1.2600		32.0		111		40.0	



Made in USA

ISO 9001:2008 Certified





NEW Sizes

TuffCut® GP Series 116 Coated

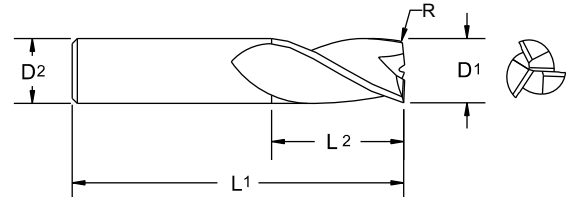
Z3

TiN

ALtima®

TiCN

Fordlube

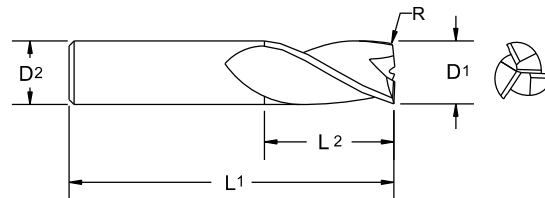
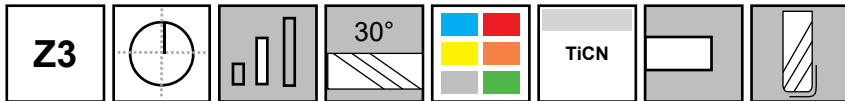


TiN		ALtima®		TiCN		Fordlube		Diameter			Shank D2	OAL L1	Flute Length L2	Corner Radius R
Tool No.	EDP	Tool No.	EDP	Tool No.	EDP	Tool No.	EDP	Inch	mm	Decimal				
		11603940A	11606						1.0	.0394	3.0	38	3.0	
	NEW	11606250R.005A	16204		NEW	11606250R.005F	16210	1/16		.0625	1/8	1-1/2	3/16	.005
		11606250R.010A	16150			11606250R.010F	16212	1/16		.0625	1/8	1-1/2	3/16	.010
		11606250R.015A	16128			11606250R.015F	16214	1/16		.0625	1/8	1-1/2	3/16	.015
		11606250R.020A	16130			11606250R.020F	16216	1/16		.0625	1/8	1-1/2	3/16	.020
		11605910A	11610						1.5	.0591	3.0	38	6.0	
	NEW	11607810R.005A	16206		NEW	11607810R.005F	16218	5/64		.0781	1/8	1-1/2	3/16	.005
		11607810R.010A	16132			11607810R.010F	16220	5/64		.0781	1/8	1-1/2	3/16	.010
		11607810R.015A	16134			11607810R.015F	16222	5/64		.0781	1/8	1-1/2	3/16	.015
		11607810R.020A	16136			11607810R.020F	16224	5/64		.0781	1/8	1-1/2	3/16	.020
		11607870A	11616						2.0	.0787	3.0	38	9.0	
	NEW	11609370R.005A	16208		NEW	11609370R.005F	16227	3/32		.0937	1/8	1-1/2	9/32	.005
		11609370R.010A	16138			11609370R.010F	16228	3/32		.0937	1/8	1-1/2	9/32	.010
		11609370R.015A	16140			11609370R.015F	16230	3/32		.0937	1/8	1-1/2	9/32	.015
		11609370R.020A	16142			11609370R.020F	16232	3/32		.0937	1/8	1-1/2	9/32	.020
		11609840A	11620						2.5	.0984	3.0	38	12.0	
11611810T	11626	11611810A	51603	11611810C	51604				3.0	.1181	3.0	38	12.0	
11612500T	11628	11612500A	51605	11612500C	51606			1/8		.1250	1/8	1-1/2	3/8	
	NEW	11612500R.005A	16242		NEW	11612500R.005F	16234	1/8		.1250	1/8	1-1/2	3/8	.005
		11612500R.010A	16144			11612500R.010F	16238	1/8		.1250	1/8	1-1/2	3/8	.010
		11612500R.015A	16146			11612500R.015F	16239	1/8		.1250	1/8	1-1/2	3/8	.015
		11612500R.020A	16148			11612500R.020F	16240	1/8		.1250	1/8	1-1/2	3/8	.020
11615750T	11636	11615750A	51607	11615750C	51608				4.0	.1575	4.0	51	14.0	
11618750T	11642	11618750A	51609	11618750C	51610			3/16		.1875	3/16	2	5/8	
11619680T	11646	11619680A	51611	11619680C	51612				5.0	.1968	5.0	51	20.0	
11623620T	11650	11623620A	51613	11623620C	51614				6.0	.2362	6.0	64	20.0	
11625000T	11652	11625000A	51615	11625000C	51616			1/4		.2500	1/4	2-1/2	3/4	
11631250T	11658	11631250A	51617	11631250C	51618			5/16		.3125	5/16	2-1/2	13/16	
11631500T	11660	11631500A	51619	11631500C	51620				8.0	.3150	8.0	64	20.0	
11637500T	11664	11637500A	51621	11637500C	51622			3/8		.3750	3/8	2-1/2	1	
11639370T	11666	11639370A	51623	11639370C	51624				10.0	.3937	10.0	70	25.0	
11643750T	11670	11643750A	51625	11643750C	51626			7/16		.4375	7/16	2-3/4	1	
11647240T	11672	11647240A	51627	11647240C	51628				12.0	.4724	12.0	76	25.0	
11650000T	11674	11650000A	51629	11650000C	51630			1/2		.5000	1/2	3	1	
11662500T	11680	11662500A	51631	11662500C	51632			5/8		.6250	5/8	3-1/2	1-1/4	
11662990T	11682	11662990A	51633	11662990C	51634				16.0	.6299	16.0	89	30.0	

Series 116 Coated Continued

TiN		ALtima®		TiCN		Fordlube		Diameter			Shank	OAL	Flute Length	Corner Radius
Tool No.	EDP	Tool No.	EDP	Tool No.	EDP	Tool No.	EDP	D1						
								Inch	mm	Decimal	D2	L1	L2	R
11675000T	11686	11675000A	51635	11675000C	51636			3/4		.7500	3/4	4	1-1/2	
11678740T	11688	11678740A	51637	11678740C	51638				20.0	.7874	20.0	102	38.0	
11698430T	11694	11698430A	51639	11698430C	51640				25.0	.9843	25.0	102	40.0	
11610000T	11622	11610000A	51601	11610000C	51602			1		1.0000	1	4	1-1/2	

TuffCut® GP Series 116C Workhorse



TiCN		Diameter		Shank	OAL	Flute Length		Corner Radius
Tool No.	EDP	Inch	Decimal	D2	L1	L2		R
11612508C	11695	1/8	.1250	1/8	1-1/2	1/2		0.01
11615628C	11696	5/32	.1562	3/16	2	9/16		0.01
11618758C	11697	3/16	.1875	3/16	2	5/8		0.01
11621872C	11698	7/32	.2187	1/4	2-1/2	3/4		0.02
11625002C	11699	1/4	.2500	1/4	2-1/2	3/4		0.02
11628122C	11468	9/32	.2812	5/16	2-1/2	3/4		0.02
11631252C	11469	5/16	.3125	5/16	2-1/2	13/16		0.02
11634382C	11500	11/32	.3438	3/8	2-1/2	7/8		0.02
11637502C	11369	3/8	.3750	3/8	2-1/2	1		0.02
11640622C	11370	13/32	.4062	7/16	2-3/4	1		0.02
11643752C	11382	7/16	.4375	7/16	2-3/4	1		0.02
11646882C	11383	15/32	.4688	1/2	3	1-1/4		0.02
11650002C	11371	1/2	.5000	1/2	3	1-1/4		0.02
11650003C	11372	1/2	.5000	1/2	3	1-1/4		0.03
11662502C	11373	5/8	.6250	5/8	3-1/2	1-5/8		0.02
11662503C	11374	5/8	.6250	5/8	3-1/2	1-5/8		0.03
11675002C	11375	3/4	.7500	3/4	4	1-1/2		0.02
11675003C	11376	3/4	.7500	3/4	4	1-1/2		0.03
11610002C	11379	1	1.0000	1	4	1-1/2		0.02
11610003C	11380	1	1.0000	1	4	1-1/2		0.03
11610012C	11377	1	1.0000	1	4	2		0.02
11610013C	11378	1	1.0000	1	4	2		0.03

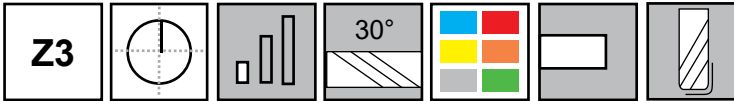
Inch	
D1	Tolerance
1/8 - 1/4	+0.000/-0.002
>1/4 - 1	+0.000/-0.003

Inch	
R	Tolerance
1/8 - 1	+0.002/-0.002

- Performs well in all materials including Stainless Steel, Inconel and Stellite.
- Produces long cuts at reasonable speeds on everyday equipment.
- Exceptional tool life at moderate speeds and feeds
- Ideal for long cuts requiring accuracy and minimal tool wear deflection.
- Perfect Job Shop Tool.



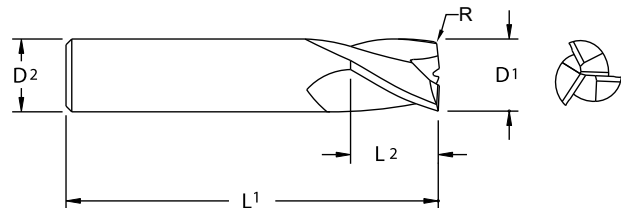
TuffCut® GP Series 169



NEW

**Corner Radius Options
Now Available As
Standards!**

Designed for aggressive milling of most materials. Provides reduced deflection, improved tool life and overall economy.



Tool No.	EDP	Diameter			Shank		OAL		Flute Length		Corner Radius
		D1			D2		L1		L2		R
		Inch	mm	Decimal	Inch	mm	Inch	mm	Inch	mm	Inch
16901560	16900	1/64		.0156	1/8		1-1/2		.023		
16903120	16901	1/32		.0312	1/8		1-1/2		1/16		
16903940	16903		1.0	.0394		3.0		38		2.0	
16904680	16905	3/64		.0468	1/8		1-1/2		3/32		
16905910	16907		1.5	.0591		3.0		38		3.0	
16906250	16909	1/16		.0625	1/8		1-1/2		1/8		
16906250R.005	16966	1/16		.0625	1/8		1-1/2		1/8		.005
16906250R.010	16910	1/16		.0625	1/8		1-1/2		1/8		.010
16906250R.015	16912	1/16		.0625	1/8		1-1/2		1/8		.015
16906250R.020	16914	1/16		.0625	1/8		1-1/2		1/8		.020
16907810	16911	5/64		.0781	1/8		1-1/2		5/32		
16907810R.005	16968	5/64		.0781	1/8		1-1/2		5/32		.005
16907810R.010	16916	5/64		.0781	1/8		1-1/2		5/32		.010
16907810R.015	16918	5/64		.0781	1/8		1-1/2		5/32		.015
16907810R.020	16920	5/64		.0781	1/8		1-1/2		5/32		.020
16907870	16913		2.0	.0787		3.0		38		4.0	
16909370	16915	3/32		.0937	1/8		1-1/2		3/16		
16909370R.005	16970	3/32		.0937	1/8		1-1/2		3/16		.005
16909370R.010	16922	3/32		.0937	1/8		1-1/2		3/16		.010
16909370R.015	16924	3/32		.0937	1/8		1-1/2		3/16		.015
16909370R.020	16928	3/32		.0937	1/8		1-1/2		3/16		.020
16909840	16917		2.5	.0984		3.0		38		5.0	
16910930	16919	7/64		.1093	1/8		1-1/2		7/32		
16911810	16921		3.0	.1181		3.0		38		6.0	
16912500	16923	1/8		.1250	1/8		1-1/2		1/4		
16912500R.005	16972	1/8		.1250	1/8		1-1/2		1/4		.005
16912500R.010	16932	1/8		.1250	1/8		1-1/2		1/4		.010
16912500R.015	16934	1/8		.1250	1/8		1-1/2		1/4		.015
16912500R.020	16938	1/8		.1250	1/8		1-1/2		1/4		.020
16913780	16925		3.5	.1378		4.0		51		7.0	

Inch	
D1	Tolerance
1/64	+0.00/-0.001
1/32 - 1/4	+0.00/-0.002
>1/4 - 3/4	+0.00/-0.003

Metric (mm)	
D1	Tolerance h10
1.00 - 3.00	+0.00/-0.040
>3.00 - 6.00	+0.00/-0.048
>6.00 - 10.00	+0.00/-0.058
>10.00 - 18.00	+0.00/-0.070
>18.00 - 20.00	+0.00/-0.084

NEW

NEW

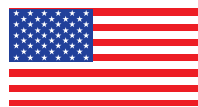
NEW

NEW



Series 169 Continued

Tool No.	EDP	Diameter			Shank		OAL		Flute Length		Corner Radius
		D1			D2		L1		L2		R
		Inch	mm	Decimal	Inch	mm	Inch	mm	Inch	mm	Inch
16914060	16926	9/64		.1406	3/16		2		5/16		
16915620	16927	5/32		.1562	3/16		2		5/16		
16915750	16929		4.0	.1575		4.0		51		8.0	
16917180	16930	11/64		.1718	3/16		2		3/8		
16917720	16931		4.5	.1772		5.0		51		9.0	
16918750	16933	3/16		.1875	3/16		2		3/8		
16919680	16935		5.0	.1968		5.0		51		11.0	
16920310	16936	13/64		.2031	1/4		2		1/2		
16921650	16937		5.5	.2165		6.0		51		12.0	
16921870	16939	7/32		.2187	1/4		2		1/2		
16923430	16940	15/64		.2343	1/4		2		1/2		
16923620	16941		6.0	.2362		6.0		51		13.0	
16925000	16943	1/4		.2500	1/4		2		1/2		
16927560	16945		7.0	.2756		8.0		51		13.0	
16928120	16947	9/32		.2812	5/16		2		1/2		
16931250	16949	5/16		.3125	5/16		2		1/2		
16931500	16951		8.0	.3150		8.0		51		13.0	
16935430	16953		9.0	.3543		9.0		51		14.0	
16937500	16955	3/8		.3750	3/8		2		5/8		
16939370	16957		10.0	.3937		10.0		51		14.0	
16943310	16959		11.0	.4331		11.0		64		16.0	
16943750	16961	7/16		.4375	7/16		2-1/2		5/8		
16947240	16963		12.0	.4724		12.0		64		16.0	
16950000	16965	1/2		.5000	1/2		2-1/2		5/8		
16955120	16967		14.0	.5512		14.0		70		18.0	
16962500	16969	5/8		.6250	5/8		3		3/4		
16962990	16971		16.0	.6299		16.0		76		20.0	
16970870	16973		18.0	.7087		18.0		76		25.0	
16975000	16975	3/4		.7500	3/4		3		1		
16978740	16977		20.0	.7874		20.0		76		25.0	



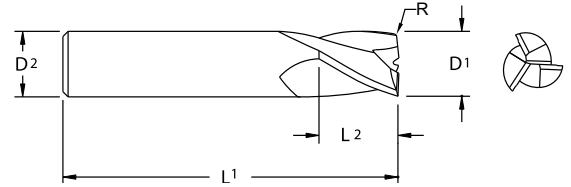
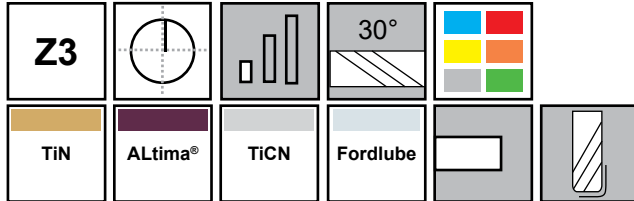
Made in USA

ISO 9001:2008 Certified





TuffCut® GP Series 169 Coated

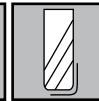
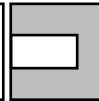
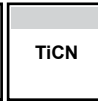
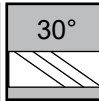
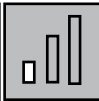
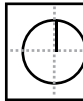


TiN		ALtima®		TiCN		Fordlube		Diameter			Shank D2	OAL L1	Flute Length L2	Corner Radius R
Tool No.	EDP	Tool No.	EDP	Tool No.	EDP	Tool No.	EDP	Inch	mm	Decimal				
	NEW	16906250R.005A	16974			NEW	16906250R.005F	16997	1/16	.0625	1/8	1-1/2	1/8	.005
		16906250R.010A	16942				16906250R.010F	16998	1/16	.0625	1/8	1-1/2	1/8	.010
		16906250R.015A	16944				16906250R.015F	16999	1/16	.0625	1/8	1-1/2	1/8	.015
		16906250R.020A	16946				16906250R.020F	17000	1/16	.0625	1/8	1-1/2	1/8	.020
		16907810R.005A	16976				16907810R.005F	17001	5/64	.0781	1/8	1-1/2	5/32	.005
		16907810R.010A	16948				16907810R.010F	17002	5/64	.0781	1/8	1-1/2	5/32	.010
		16907810R.015A	16950				16907810R.015F	17003	5/64	.0781	1/8	1-1/2	5/32	.015
		16907810R.020A	16952				16907810R.020F	17004	5/64	.0781	1/8	1-1/2	5/32	.020
		16909370R.005A	16995				16909370R.005F	17005	3/32	.0937	1/8	1-1/2	3/16	.005
		16909370R.010A	16954				16909370R.010F	17006	3/32	.0937	1/8	1-1/2	3/16	.010
		16909370R.015A	16956				16909370R.015F	17007	3/32	.0937	1/8	1-1/2	3/16	.015
		16909370R.020A	16958				16909370R.020F	17008	3/32	.0937	1/8	1-1/2	3/16	.020
16911810T	56900	16911810A	56933	16911810C	56966				3/8	.1181	3.0	38	6.0	
16912500T	56901	16912500A	56934	16912500C	56967				1/8	.1250	1/8	1-1/2	1/4	
	NEW	16912500R.005A	16996			NEW	16912500R.005F	17009	1/8	.1250	1/8	1-1/2	1/4	.005
		16912500R.010A	16960				16912500R.010F	17010	1/8	.1250	1/8	1-1/2	1/4	.010
		16912500R.015A	16962				16912500R.015F	17011	1/8	.1250	1/8	1-1/2	1/4	.015
		16912500R.020A	16964				16912500R.020F	17012	1/8	.1250	1/8	1-1/2	1/4	.020
16915750T	56905	16915750A	56938	16915750C	56971				1/2	.1575	4.0	51	8.0	
16918750T	56908	16918750A	56941	16918750C	56974				3/16	.1875	3/16	2	3/8	
16919680T	56909	16919680A	56942	16919680C	56975				1/2	.1968	5.0	51	11.0	
16923620T	56914	16923620A	56947	16923620C	56980				1/2	.2362	6.0	51	13.0	
16925000T	56915	16925000A	56948	16925000C	56981				1/4	.2500	1/4	2	1/2	
16931250T	56918	16931250A	56951	16931250C	56984				5/16	.3125	5/16	2	1/2	
16931500T	56919	16931500A	56952	16931500C	56985				1/2	.3150	8.0	51	13.0	
16937500T	56921	16937500A	56954	16937500C	56987				3/8	.3750	3/8	2	5/8	
16939370T	56922	16939370A	56955	16939370C	56988				1/2	.3937	10.0	51	14.0	
16943750T	56924	16943750A	56957	16943750C	56990				7/16	.4375	7/16	2-1/2	5/8	
16947240T	56925	16947240A	56958	16947240C	56991				1/2	.4724	12.0	64	16.0	
16950000T	56926	16950000A	56959	16950000C	56992				1/2	.5000	1/2	2-1/2	5/8	
16962500T	56928	16962500A	56961	16962500C	56994				5/8	.6250	5/8	3	3/4	
16962990T	56929	16962990A	56962	16962990C	56995				1/2	.6299	16.0	76	20.0	
16975000T	56931	16975000A	56964	16975000C	56997				3/4	.7500	3/4	3	1	
16978740T	56932	16978740A	56965	16978740C	56998				1/2	.7874	20.0	76	25	

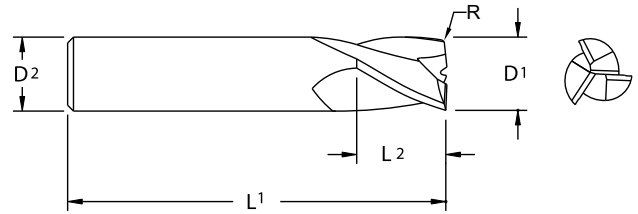


TuffCut® GP Series 169C Workhorse

Z3



Designed for aggressive milling of most materials.



TiCN		Diameter		Shank	OAL	Flute Length		Corner Radius R
Tool No.	EDP	Inch	Decimal	Inch	Inch	Inch	Inch	
16912508C	16978	1/8	.1250	1/8	1-1/2	1/4	0.01	
16915628C	16979	5/32	.1562	3/16	2	5/16	0.01	
16918758C	16980	3/16	.1875	3/16	2	3/8	0.01	
16921872C	16981	7/32	.2187	1/4	2	1/2	0.02	
16925002C	16982	1/4	.2500	1/4	2	1/2	0.02	
16928122C	11381	9/32	.2812	5/16	2	1/2	0.02	
16931252C	16983	5/16	.3125	5/16	2	1/2	0.02	
16934382C	16984	11/32	.3438	3/8	2	1/2	0.02	
16937502C	16985	3/8	.3750	3/8	2	5/8	0.02	
16940622C	16986	13/32	.4062	7/16	2-1/2	9/16	0.02	
16943752C	16987	7/16	.4375	7/16	2-1/2	5/8	0.02	
16946882C	16988	15/32	.4688	1/2	2-1/2	1/2	0.02	
16950002C	16989	1/2	.5000	1/2	2-1/2	5/8	0.02	
16950003C	16990	1/2	.5000	1/2	2-1/2	5/8	0.03	
16962502C	16991	5/8	.6250	5/8	3	3/4	0.02	
16962503C	16992	5/8	.6250	5/8	3	3/4	0.03	
16975002C	16993	3/4	.7500	3/4	3	1	0.02	
16975003C	16994	3/4	.7500	3/4	3	1	0.03	

Inch	
D1	Tolerance
1/8 - 1/4	+ .000/- .002
>1/4 - 3/4	+ .000/- .003

Inch	
R	Tolerance
1/8 - 3/4	+ .002/- .002

- Performs well in all materials including Stainless Steel, Inconel and Stellite.
- Produces long cuts at reasonable speeds on everyday equipment.
- Exceptional tool life at moderate speeds and feeds.
- Ideal for long cuts requiring accuracy and minimal tool wear deflection.
- Perfect Job Shop Tool.

**FOR MORE INFORMATION
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SALES@MAFORD.COM
WWW.MAFORD.COM**



WB116R169R