

END MILL

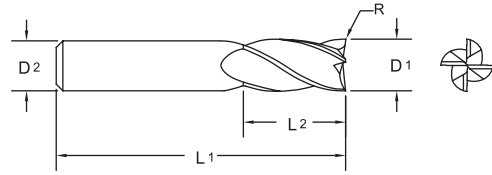
ดอกเอ็นมิลล์

END MILL
เอ็นมิลล์



เอ็นมิลล์ - รุ่น 111

TuffCut® GP ENDMILLS - STANDARD LENGTH SERIES 111



Designed for aggressive milling of most materials - Micro sizes available.

	Order No.	EDP	Diameter		Shank	OAL	Flute Length	Corner Radius
			D1					
			mm	Decimal	D2	L1	L2	R
Ball หัวบอล	11100780	51003	0.2	.0078*	3.0	38	0.6	
Radius หัวกึ่งมุม R	11101180	51007	0.3	.0118*	3.0	38	0.9	
Square หัวสี่	11101570	51013	0.4	.0157	3.0	38	1.2	
Taper Ball หัวตaperบอล	11101960	51015	0.5	.0196	3.0	38	1.5	
Roughing	11102360	51019	0.6	.0236	3.0	38	1.8	
	11102750	51023	0.7	.0275	3.0	38	2.1	
	11103150	51029	0.8	.0315	3.0	38	2.4	
	11103540	51033	0.9	.0354	3.0	38	2.7	
	11103940	11035	1.0	.0394	3.0	38	3.0	
	11104330	151041	1.1	.0433	3.0	38	3.3	
	11104720	51047	1.2	.0472	3.0	38	3.6	
	11105120	51051	1.3	.0512	3.0	38	3.9	
	11105510	51055	1.4	.0551	3.0	38	4.2	
	11105910	11057	1.5	.0591	3.0	38	6.0	
	11105911	51057	1.5	.0591	3.0	38	4.5	
	11106300	51065	1.6	.0630	3.0	38	4.8	
	11106690	51069	1.7	.0669	3.0	38	5.1	
	11107090	51073	1.8	.0709	3.0	38	5.4	
	11107480	51075	1.9	.0748	3.0	38	5.7	
	11107870	11081	2.0	.0787	3.0	38	9.0	
	11107871	51081	2.0	.0787	3.0	38	6.0	
	11109840	11095	2.5	.0984	3.0	38	12.0	
	11111810	11103	3.0	.1181	3.0	38	12.0	
	11111811	51402	3.0	.1181	3.0	38	12.0	0.50
	11113780	11111	3.5	.1378	4.0	51	12.0	
	11115750	11115	4.0	.1575	4.0	51	14.0	
	11115751	51404	4.0	.1575	4.0	51	14.0	0.50
	11115752	51422	4.0	.1575	4.0	51	14.0	0.75
	11117720	11117	4.5	.1772	5.0	51	14.0	
	11119680	11121	5.0	.1968	5.0	51	20.0	
	11119681	51406	5.0	.1968	5.0	51	20.0	0.50
	11119682	51424	5.0	.1968	5.0	51	20.0	0.75
	11119683	51440	5.0	.1968	5.0	51	20.0	1.00
	11121650	11123	5.5	.2165	6.0	64	20.0	
	11123620	11127	6.0	.2362	6.0	64	20.0	
	11123621	51408	6.0	.2362	6.0	64	20.0	0.50
	11123622	51426	6.0	.2362	6.0	64	20.0	0.75
	11123623	51442	6.0	.2362	6.0	64	20.0	1.00
	11127560	11131	7.0	.2756	8.0	64	20.0	
	11131500	11137	8.0	.3150	8.0	64	20.0	
	11131501	51410	8.0	.3150	8.0	64	20.0	0.50
	11131502	51428	8.0	.3150	8.0	64	20.0	0.75
	11131503	51444	8.0	.3150	8.0	64	20.0	1.00

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	11131504	51456	8.0	.3150	8.0	64	20.0	1.50
	11135430	11139	9.0	.3543	9.0	64	20.0	
	11139370	11143	10.0	.3937	10.0	70	25.0	
	11139371	51412	10.0	.3937	10.0	70	25.0	0.50
	11139372	51430	10.0	.3937	10.0	70	25.0	0.75
	11139373	51446	10.0	.3937	10.0	70	25.0	1.00
	11139374	51458	10.0	.3937	10.0	70	25.0	1.50
	11143310	11145	11.0	.4331	11.0	70	25.0	
	11147240	11149	12.0	.4724	12.0	76	25.0	
	11147241	51414	12.0	.4724	12.0	76	25.0	0.50
	11147242	51432	12.0	.4724	12.0	76	25.0	0.75
	11147243	51448	12.0	.4724	12.0	76	25.0	1.00
	11147244	51460	12.0	.4724	12.0	76	25.0	1.50
	11147245	51468	12.0	.4724	12.0	76	25.0	2.00
	11155120	11153	14.0	.5512	14.0	89	30.0	
	11162990	11159	16.0	.6299	16.0	89	30.0	
	11162991	51416	16.0	.6299	16.0	89	30.0	0.50
	11162992	51434	16.0	.6299	16.0	89	30.0	0.75
	11162993	51450	16.0	.6299	16.0	89	30.0	1.00
	11162994	51462	16.0	.6299	16.0	89	30.0	1.50
	11162995	51470	16.0	.6299	16.0	89	30.0	2.00
	11162996	51476	16.0	.6299	16.0	89	30.0	2.50
	11162997	51482	16.0	.6299	16.0	89	30.0	3.00
	11170870	11161	18.0	.7087	18.0	102	35.0	
	11178740	11165	20.0	.7874	20.0	102	38.0	
	11178741	51418	20.0	.7874	20.0	102	38.0	0.50
	11178742	51436	20.0	.7874	20.0	102	38.0	0.75
	11178743	51452	20.0	.7874	20.0	102	38.0	1.00
	11178744	51464	20.0	.7874	20.0	102	38.0	1.50
	11178745	51472	20.0	.7874	20.0	102	38.0	2.00
	11178746	51478	20.0	.7874	20.0	102	38.0	2.50
	11178747	51484	20.0	.7874	20.0	102	38.0	3.00
	11186620	11167	22.0	.8662	22.0	102	40.0	
	11198430	11171	25.0	.9843	25.0	102	40.0	
	11198431	51420	25.0	.9843	25.0	102	40.0	0.50
	11198432	51438	25.0	.9843	25.0	102	40.0	0.75
	11198433	51454	25.0	.9843	25.0	102	40.0	1.00
	11198434	51466	25.0	.9843	25.0	102	40.0	1.50
	11198435	51474	25.0	.9843	25.0	102	40.0	2.00
	11198436	51480	25.0	.9843	25.0	102	40.0	2.50
	11198437	51486	25.0	.9843	25.0	102	40.0	3.00
	11112600	11109	32.0	1.2600	32.0	111	40.0	

D1	Tolerance h10	D1	Tolerance h10
0.20-0.50	+ .000/- .025	>10.00-18.00	+ .000/- .070
0.60-3.00	+ .000/- .040	>18.00-30.00	+ .000/- .084
>3.00-6.00	+ .000/- .048	32.00	+ .000/- .100
>6.00-10.00	+ .000/- .058		

R	Tolerance
3.0-25.0	+ .05/- .05