Series V5C - Chip Splitter

.4724" - .6299"
(12.000mm - 16.000mm)

HIGH EFFICIENCY MILLING

Z=5 | VAR | TECH PAGES 298-299

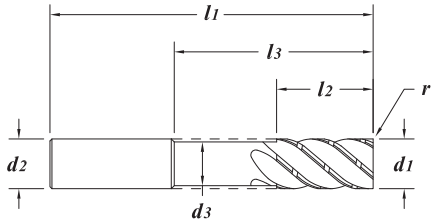
TOLERANCES	
d_1	+.000" –.002" (+.000mm –.050mm)
d_2	h6
r	+.001" –.001" (+.025 –.025mm)

Recommended for titanium and tool steels under 45Rc

Variable Helix End Mill

AlCrN Coating

Solid submicron grain carbide end mill - center cutting
Chip splitter to help break long chips
Engineered for High Efficiency Milling
Staggered flutes to control harmonics
Variable flute design helps with chip evacuation in slots and pockets
PCT (Polish Carbide Treatment) enhances tool life



MATERIAL HARDNESS (Rc)
70
35
0

EDP#	d_1 † Diameter Decimal	Diameter	Metric	d_2 Shank Diameter	l_1 Overall Length	l_2 Flute Length	r Corner Radius	l_3 Reach Length	d_3 Neck Diameter	1-11	12-24	25-49	50-100
50801	.4724		12.000	12.0	100	42	0.30	-	-	98.80	94.50	90.21	85.91
50800	.4724		12.000	12.0	100	42	1.00	-	-	98.80	94.50	90.21	85.91
50803	.5000	1/2"	12.700	1/2"	3"	1"	-	-	-	69.05	66.04	63.04	60.04
50807	.5000	1/2"	12.700	1/2"	3"	1"	.015"	-	-	82.55	78.96	75.37	71.78
50805	.5000	1/2"	12.700	1/2"	3"	1"	.020"	-	-	82.55	78.96	75.37	71.78
50809	.5000	1/2"	12.700	1/2"	3"	1"	.030"	-	-	82.55	78.96	75.37	71.78
50811	.5000	1/2"	12.700	1/2"	3"	1-1/4"	.015"	-	-	82.55	78.96	75.37	71.78
50810	.5000	1/2"	12.700	1/2"	3"	1-1/4"	.020"	-	-	82.55	78.96	75.37	71.78
50815	.5000	1/2"	12.700	1/2"	3"	1-1/4"	.030"	-	-	82.55	78.96	75.37	71.78
50813	.5000	1/2"	12.700	1/2"	3"	1-1/4"	.060"	-	-	82.55	78.96	75.37	71.78
50820	.5000	1/2"	12.700	1/2"	3"	1-1/4"	.090"	-	-	82.55	78.96	75.37	71.78
50825	.5000	1/2"	12.700	1/2"	4"	1-1/2"	.010"	-	-	96.40	92.21	88.02	83.83
50817	.5000	1/2"	12.700	1/2"	4"	1-1/2"	.030"	-	-	96.40	92.21	88.02	83.83
50830	.5000	1/2"	12.700	1/2"	4"	1-5/8"	-	-	-	91.21	87.24	83.28	79.31
50819	.5000	1/2"	12.700	1/2"	4"	1-5/8"	.030"	-	-	96.40	92.21	88.02	83.83
50835	.5000	1/2"	12.700	1/2"	4"	2-1/8"	-	-	-	91.21	87.24	83.28	79.31
50836	.5000	1/2"	12.700	1/2"	4"	2-1/8"	.030"	-	-	96.40	92.21	88.02	83.83
50821	.5000	1/2"	12.700	1/2"	4"	5/8"	.015"	1-1/2"	.475"	109.17	104.42	99.68	94.93
50823	.6250	5/8"	15.875	5/8"	3-1/2"	1-1/4"	.020"	-	-	128.95	123.34	117.74	112.13
50840	.6250	5/8"	15.875	5/8"	3-1/2"	1-1/4"	.030"	-	-	128.95	123.34	117.74	112.13
50827	.6250	5/8"	15.875	5/8"	4"	1-5/8"	-	-	-	131.22	125.51	119.81	114.10
50829	.6250	5/8"	15.875	5/8"	4"	1-5/8"	.030"	-	-	139.53	133.46	127.40	121.33
50845	.6250	5/8"	15.875	5/8"	4"	2-1/8"	.030"	-	-	139.53	133.46	127.40	121.33
50831	.6250	5/8"	15.875	5/8"	6"	2-1/2"	.030"	-	-	189.22	180.99	172.77	164.54
50833	.6299		16.000	16.0	100	40	0.50	-	-	142.26	136.07	129.89	123.70
50837	.6299		16.000	16.0	100	40	1.00	-	-	142.26	136.07	129.89	123.70

† *Metric equivalents are for reference only*

EDP#	d_1 † Diameter Decimal	Diameter	Metric	d_2 Shank Diameter	l_1 Overall Length	l_2 Flute Length	r Corner Radius	l_3 Reach Length	d_3 Neck Diameter	1-11	12-24	25-49	50-100
50839	.7500	3/4"	19.050	3/4"	3"	7/8"	-	-	-	169.46	162.10	154.73	147.36
50841	.7500	3/4"	19.050	3/4"	3"	7/8"	.030"	-	-	178.27	170.52	162.77	155.02
50843	.7500	3/4"	19.050	3/4"	4"	1-1/2"	.030"	-	-	181.99	174.08	166.16	158.25
50847	.7500	3/4"	19.050	3/4"	4"	1-1/2"	.060"	-	-	181.99	174.08	166.16	158.25
50850	.7500	3/4"	19.050	3/4"	4"	1-1/2"	.120"	-	-	181.99	174.08	166.16	158.25
50849	.7500	3/4"	19.050	3/4"	4"	1-3/4"	-	-	-	173.17	165.64	158.11	150.58
50851	.7500	3/4"	19.050	3/4"	4"	1-3/4"	.030"	-	-	181.99	174.08	166.16	158.25
50855	.7500	3/4"	19.050	3/4"	5"	2-1/8"	.030"	-	-	249.38	238.54	227.69	216.85
50853	.7500	3/4"	19.050	3/4"	5"	2-1/4"	.030"	-	-	249.38	238.54	227.69	216.85
50857	.7500	3/4"	19.050	3/4"	5"	2-1/2"	.030"	-	-	249.38	238.54	227.69	216.85
50859	.7500	3/4"	19.050	3/4"	5"	2-3/4"	.015"	-	-	249.38	238.54	227.69	216.85
50861	.7500	3/4"	19.050	3/4"	5"	2-3/4"	.030"	-	-	249.38	238.54	227.69	216.85
50863	.7500	3/4"	19.050	3/4"	6"	3-1/4"	-	-	-	267.52	255.89	244.26	232.63
50860	.7500	3/4"	19.050	3/4"	6"	3-1/4"	.030"	-	-	294.76	281.94	269.13	256.31
50867	.7500	3/4"	19.050	3/4"	7"	4-1/4"	.015"	-	-	369.69	353.62	337.54	321.47
50869	1.000	1"	25.400	1"	5"	2-1/2"	.030"	-	-	373.61	357.37	341.12	324.88
50871	1.000	1"	25.400	1"	5"	2-5/8"	.030"	-	-	373.61	357.37	341.12	324.88
50873	1.000	1"	25.400	1"	6"	3-1/4"	.030"	-	-	484.89	463.80	442.72	421.64