

Series VX-7

**NEW
SERIES**

.3150" - .4724"
(8.000mm - 12.000mm)



TECH
PAGES
286-287

TOLERANCES

d_1	+0.000" - .002" (+.000mm - .050mm)
d_2	h6
r	+0.011" - .001" (+.025 - .025mm)

Recommended for titanium, stainless, and tool steels under 45Rc

Seven-Flute End Mill

AlCrN-Based Coating

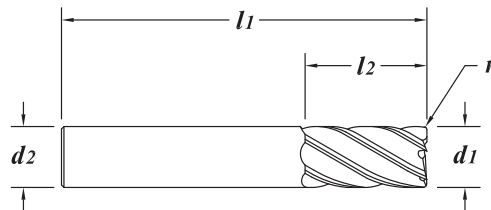
Solid submicron grain carbide end mill - non-center cutting

Recommended for Dynamic milling

Multiple flutes for increased feed rates

Staggered flute geometry

Up to 15% Radial (ae) engagement



MATERIAL HARDNESS (Rc)

70

35

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EDP#	d_1 † Diameter		d_2 Shank Diameter	l_1 Overall Length	l_2 Flute Length	r Corner Radius	1-11	12-24	25-49	50-100	
	Decimal	Metric									
64100	.3150	8.000	8.0	65	22	-	51.91	49.65	47.40	45.14	
64102	.3150	8.000	8.0	65	22	0.50	57.19	54.70	52.22	49.73	
64104	.3150	8.000	8.0	65	22	1.00	57.19	54.70	52.22	49.73	
64106	.3150	8.000	8.0	75	32	-	64.18	61.39	58.60	55.81	
64108	.3150	8.000	8.0	75	32	0.50	70.14	67.09	64.04	60.99	
64110	.3150	8.000	8.0	75	32	1.00	70.14	67.09	64.04	60.99	
64112	.3750	3/8"	9.525	3/8"	2-1/2"	1"	-	56.42	53.97	51.51	49.06
64114	.3750	3/8"	9.525	3/8"	2-1/2"	1"	.020"	61.77	59.08	56.40	53.71
64116	.3750	3/8"	9.525	3/8"	2-1/2"	1"	.030"	61.77	59.08	56.40	53.71
64118	.3750	3/8"	9.525	3/8"	3"	1-1/2"	-	68.03	65.07	62.11	59.16
64120	.3750	3/8"	9.525	3/8"	3"	1-1/2"	.020"	75.14	71.87	68.61	65.34
64122	.3750	3/8"	9.525	3/8"	3"	1-1/2"	.030"	75.14	71.87	68.61	65.34
64124	.3937	10.000	10.0	70	25	-	66.06	63.19	60.32	57.44	
64126	.3937	10.000	10.0	70	25	0.50	72.91	69.74	66.57	63.40	
64128	.3937	10.000	10.0	70	25	1.00	72.91	69.74	66.57	63.40	
64130	.4724	12.000	12.0	75	26	-	79.30	75.85	72.40	68.96	
64132	.4724	12.000	12.0	75	26	0.50	96.55	92.35	88.15	83.96	
64134	.4724	12.000	12.0	75	26	1.00	96.55	92.35	88.15	83.96	
64136	.4724	12.000	12.0	75	32	-	79.30	75.85	72.40	68.96	
64138	.4724	12.000	12.0	75	32	0.50	96.55	92.35	88.15	83.96	
64140	.4724	12.000	12.0	75	32	1.00	96.55	92.35	88.15	83.96	
64142	.4724	12.000	12.0	100	50	-	106.50	101.87	97.24	92.61	
64144	.4724	12.000	12.0	100	50	0.50	117.12	112.03	106.94	101.84	
64146	.4724	12.000	12.0	100	50	1.00	117.12	112.03	106.94	101.84	

EDP#	$d1$ † Diameter		$d2$ Shank Diameter	$l1$ Overall Length	$l2$ Flute Length	r Corner Radius	1-11	12-24	25-49	50-100	
	Decimal	Metric									
64218	.5000	1/2"	12.700	1/2"	2-1/2"	5/8"	-	74.11	70.89	67.67	64.44
64220	.5000	1/2"	12.700	1/2"	2-1/2"	5/8"	.015"	86.35	82.60	78.84	75.09
64222	.5000	1/2"	12.700	1/2"	2-1/2"	5/8"	.030"	86.35	82.60	78.84	75.09
64224	.5000	1/2"	12.700	1/2"	3"	1"	-	77.02	73.67	70.32	66.97
64226	.5000	1/2"	12.700	1/2"	3"	1"	.015"	93.53	89.46	85.40	81.33
64228	.5000	1/2"	12.700	1/2"	3"	1"	.030"	93.53	89.46	85.40	81.33
64148	.5000	1/2"	12.700	1/2"	3"	1-1/4"	-	77.02	73.67	70.32	66.97
64150	.5000	1/2"	12.700	1/2"	3"	1-1/4"	.015"	93.53	89.46	85.40	81.33
64152	.5000	1/2"	12.700	1/2"	3"	1-1/4"	.020"	93.53	89.46	85.40	81.33
64154	.5000	1/2"	12.700	1/2"	3"	1-1/4"	.030"	93.53	89.46	85.40	81.33
64156	.5000	1/2"	12.700	1/2"	3"	1-1/4"	.060"	93.53	89.46	85.40	81.33
64158	.5000	1/2"	12.700	1/2"	3-1/2"	1-1/2"	-	100.17	95.81	91.46	87.10
64160	.5000	1/2"	12.700	1/2"	3-1/2"	1-1/2"	.030"	110.40	105.60	100.80	96.00
64162	.5000	1/2"	12.700	1/2"	4"	2"	-	102.76	98.29	93.82	89.36
64164	.5000	1/2"	12.700	1/2"	4"	2"	.030"	113.00	108.09	103.17	98.26
64166	.6250	5/8"	15.875	5/8"	3-1/2"	1-1/4"	-	130.76	125.07	119.39	113.70
64168	.6250	5/8"	15.875	5/8"	3-1/2"	1-1/4"	.030"	142.93	136.72	130.50	124.29
64170	.6250	5/8"	15.875	5/8"	3-1/2"	1-1/4"	.060"	142.93	136.72	130.50	124.29
64172	.6250	5/8"	15.875	5/8"	4"	1-3/4"	-	137.67	131.68	125.70	119.71
64174	.6250	5/8"	15.875	5/8"	4"	1-3/4"	.030"	150.68	144.13	137.58	131.03
64176	.6250	5/8"	15.875	5/8"	4"	1-3/4"	.060"	150.68	144.13	137.58	131.03
64178	.6299		16.000	16.0	88	32	-	139.91	133.83	127.74	121.66
64180	.6299		16.000	16.0	88	32	0.50	152.54	145.91	139.28	132.64
64182	.6299		16.000	16.0	88	32	1.00	152.54	145.91	139.28	132.64
64230	.6299		16.000	16.0	88	32	2.00	152.54	145.91	139.28	132.64
64232	.6299		16.000	16.0	100	40	1.50	160.08	153.12	146.16	139.20
64234	.6299		16.000	16.0	125	65	0.50	201.28	192.53	183.78	175.03
64236	.6299		16.000	16.0	125	65	3.00	201.28	192.53	183.78	175.03
64184	.7500	3/4"	19.050	3/4"	4"	1-1/2"	-	179.06	171.27	163.49	155.71
64186	.7500	3/4"	19.050	3/4"	4"	1-1/2"	.030"	196.85	188.29	179.73	171.17
64188	.7500	3/4"	19.050	3/4"	4"	1-1/2"	.060"	196.85	188.29	179.73	171.17
64190	.7500	3/4"	19.050	3/4"	4"	1-1/2"	.120"	196.85	188.29	179.73	171.17
64192	.7500	3/4"	19.050	3/4"	5"	2-1/4"	-	235.80	225.55	215.29	205.04
64194	.7500	3/4"	19.050	3/4"	5"	2-1/4"	.030"	266.60	255.01	243.42	231.83
64238	.7500	3/4"	19.050	3/4"	5"	2-1/4"	.060"	266.60	255.01	243.42	231.83
64196	.7500	3/4"	19.050	3/4"	6"	3-1/4"	-	276.00	264.00	252.00	240.00
64198	.7500	3/4"	19.050	3/4"	6"	3-1/4"	.030"	313.27	299.65	286.03	272.41
64200	.7874		20.000	20.0	100	38	-	239.61	229.19	218.77	208.36
64202	.7874		20.000	20.0	100	38	0.50	274.11	262.19	250.27	238.36
64204	.7874		20.000	20.0	100	38	1.00	274.11	262.19	250.27	238.36
64206	1.000	1"	25.400	1"	4"	1-1/2"	-	260.39	249.07	237.75	226.43
64208	1.000	1"	25.400	1"	4"	1-1/2"	.030"	321.20	307.23	293.27	279.31
64240	1.000	1"	25.400	1"	4"	1-1/2"	.125"	321.20	307.23	293.27	279.31
64210	1.000	1"	25.400	1"	5"	2"	-	339.79	325.02	310.24	295.47
64212	1.000	1"	25.400	1"	5"	2-1/2"	-	339.79	325.02	310.24	295.47
64214	1.000	1"	25.400	1"	6"	3-1/4"	-	433.14	414.31	395.47	376.65
64216	1.000	1"	25.400	1"	6"	3-1/4"	.030"	496.10	474.53	452.96	431.39

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MATERIAL HARDNESS (Rc)

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