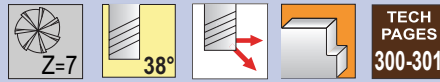


Series VX-7 **NEW ITEMS** HIGH EFFICIENCY MILLING

.3150" - .5000"  
(8.000mm - 12.700mm)



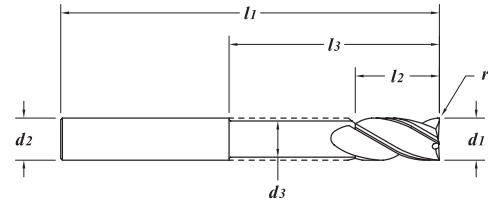
TOLERANCES	
d1	+0.000" - .002" (+.000mm - .050mm)
d2	h6
r	+0.011" - .001" (+.025 - .025mm)

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
- Engineered for High Efficiency Milling
- Multiple flutes for increased feed rates
- Staggered flute geometry
- PCT (Polish Carbide Treatment) enhances tool life
- Up to 15% Radial (ae) engagement



70  
35  
0  
MATERIAL HARDNESS (Rc)

EDP#	d1 † Diameter		d2 Shank Diameter	l1 Overall Length	l2 Flute Length	r Corner Radius	l3 Reach Length	d3 Neck Diameter	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	
<b>NEW</b> 64105	.3150	8.000	8.0	75	27	1.60	-	-	70.14	67.09	64.04	60.99	
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	
<b>NEW</b> 64117	.3750	3/8"	9.525	3/8"	3"	1"	.025"	-	75.14	71.87	68.61	65.34	
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	
<b>NEW</b> 64123	.3750	3/8"	9.525	3/8"	3"	1-1/2"	.060"	-	75.14	71.87	68.61	65.34	
<b>NEW</b> 64246	.3750	3/8"	9.525	3/8"	4"	7/8"	.015"	1-7/8"	.355"	97.80	93.55	89.30	85.04
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	
<b>NEW</b> 64141	.4724	12.000	12.0	100	42	1.00	-	-	117.12	112.03	106.94	101.84	
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	
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	
<b>NEW</b> 64223	.5000	1/2"	12.700	1/2"	2-1/2"	5/8"	.060"	-	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	

EDP#	$d1$ † Diameter		$d2$ Shank Diameter	$l1$ Overall Length	$l2$ Flute Length	$r$ Corner Radius	$l3$ Reach Length	$d3$ Neck Diameter	1-11	12-24	25-49	50-100	
	Decimal	Metric											
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
NEW 64157	.5000	1/2"	12.700	1/2"	3"	1-1/4"	.125"	-	-	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
NEW 64161	.5000	1/2"	12.700	1/2"	4"	5/8"	.015"	2-1/8"	.475"	123.67	118.29	112.92	107.54
NEW 64242	.5000	1/2"	12.700	1/2"	4"	1-5/8"	-	-	-	102.76	98.29	93.82	89.36
NEW 64244	.5000	1/2"	12.700	1/2"	4"	1-5/8"	.015"	-	-	113.00	108.09	103.17	98.26
64162	.5000	1/2"	12.700	1/2"	4"	2"	-	-	-	102.76	98.29	93.82	89.36
NEW 64163	.5000	1/2"	12.700	1/2"	4"	2"	.015"	-	-	113.00	108.09	103.17	98.26
64164	.5000	1/2"	12.700	1/2"	4"	2"	.030"	-	-	113.00	108.09	103.17	98.26
NEW 64165	.5000	1/2"	12.700	1/2"	4"	2"	.125"	-	-	113.00	108.09	103.17	98.26
NEW 64248	.5512		14.000	14.0	88	32	0.50	-	-	137.80	131.81	125.82	119.83
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
NEW 64171	.6250	5/8"	15.875	5/8"	3-1/2"	1-1/4"	.120"	-	-	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
NEW 64177	.6250	5/8"	15.875	5/8"	4"	1-3/4"	.120"	-	-	150.68	144.13	137.58	131.03
NEW 64250	.6250	5/8"	15.875	5/8"	4"	2"	.120"	-	-	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
NEW 64231	.6299		16.000	16.0	100	40	1.00	-	-	160.08	153.12	146.16	139.20
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
NEW 64252	.7500	3/4"	19.050	3/4"	3"	1"	-	-	-	170.10	162.70	155.31	147.91
NEW 64254	.7500	3/4"	19.050	3/4"	3"	1"	.030"	-	-	187.58	179.42	171.27	163.11
64184	.7500	3/4"	19.050	3/4"	4"	1-1/2"	-	-	-	179.05	171.27	163.49	155.70
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
NEW 64256	.7500	3/4"	19.050	3/4"	4"	1-3/4"	-	-	-	179.07	171.28	163.50	155.71
NEW 64258	.7500	3/4"	19.050	3/4"	4"	1-3/4"	.030"	-	-	196.85	188.29	179.73	171.17
NEW 64260	.7500	3/4"	19.050	3/4"	5"	1"	.030"	3"	.730"	277.29	265.23	253.18	241.12
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
NEW 64262	.7500	3/4"	19.050	3/4"	5"	2-1/4"	.120"	-	-	266.60	255.01	243.42	231.83
NEW 64264	.7500	3/4"	19.050	3/4"	5"	2-1/2"	.060"	-	-	266.60	255.01	243.42	231.83
NEW 64266	.7500	3/4"	19.050	3/4"	6"	1-1/8"	.120"	3-5/8"	.730"	323.97	309.88	295.80	281.71
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

70

35

MATERIAL HARDNESS (Rc)

0

continued →

Series VX-7 (continued)

.7874" - 1.0000"  
(20.000mm - 25.400mm)

EDP#	$d1$ † Diameter		$d2$ Shank Diameter	$l1$ Overall Length	$l2$ Flute Length	$r$ Corner Radius	$l3$ Reach Length	$d3$ Neck Diameter	1-11	12-24	25-49	50-100
	Decimal	Metric										
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
<b>NEW</b> 64213	1.000	1" 25.400	1"	5"	2-1/2"	.030"	-	-	390.92	373.92	356.93	339.93
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

