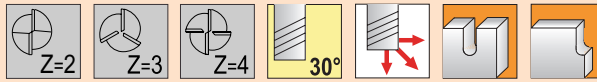


Series 720MA, 723MA, 730MA, 740MA, 743MA, 750MA

.1181" - .3150"
(3.000mm - 8.000mm)



TECH
PAGES
282-283

TOLERANCES

d_1	+0.000" - .002" (+0.000 - .050mm)
d_2	h6
ball radius	+0.000" - .001" (+0.000 - .025mm)

Extra Length - Ball End

TiAlN Coating

Solid submicron grain carbide end mill - center cutting

Extended reach

Dry or semi-dry machining

Can be modified with a neck within 48 hours

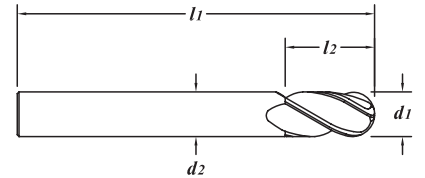
Extremely versatile

Uncoated - page 247

TiCN Coating - page 249

Stub Length - page 215

Standard length - page 232



MATERIAL HARDNESS (Rc)
70
35
0

(720MA/740MA) 2 Flute EDP#	(723MA/743MA) 3 Flute EDP#	(730MA/750MA) 4 Flute EDP#	d_1 † Diameter		d_2 Shank Diameter	l_1 Overall Length	l_2 Flute Length	1-11	12-24	25-49	50-100	
			Decimal	Metric								
97017	98017	99017	.1181	3.000	3.0	50	16	17.58	16.82	16.05	15.29	
97027	98027	99027	.1181	3.000	3.0	75	20	28.11	26.88	25.66	24.44	
97037	98037	99037	.1181	3.000	3.0	75	25	28.11	26.88	25.66	24.44	
43017	55517	44017	.1250	1/8"	3.175	1/8"	2"	5/8"	18.32	17.52	16.73	15.93
43027	55527	44027	.1250	1/8"	3.175	1/8"	3"	3/4"	27.44	26.25	25.05	23.86
43037	55537	44037	.1250	1/8"	3.175	1/8"	3"	1"	27.44	26.25	25.05	23.86
97047	98047	99047	.1575	4.000	4.0	50	16	18.78	17.96	17.15	16.33	
97057	98057	99057	.1575	4.000	4.0	75	20	30.15	28.84	27.53	26.22	
97067	98067	99067	.1575	4.000	4.0	75	25	30.15	28.84	27.53	26.22	
43047	55547	44047	.1875	3/16"	4.763	3/16"	3"	1"	30.82	29.48	28.14	26.80
43057	55557	44057	.1875	3/16"	4.763	3/16"	3"	1-1/8"	30.82	29.48	28.14	26.80
43067	55567	44067	.1875	3/16"	4.763	3/16"	4"	1"	33.55	32.09	30.63	29.17
97087	98087	99087	.1969	5.000	5.0	75	20	33.58	32.12	30.66	29.20	
97097	98097	99097	.1969	5.000	5.0	75	25	33.58	32.12	30.66	29.20	
97107	98107	99107	.2362	6.000	6.0	75	25	38.00	36.34	34.69	33.04	
97117	98117	99117	.2362	6.000	6.0	100	25	40.65	38.89	37.12	35.35	
97127	98127	99127	.2362	6.000	6.0	100	32	40.65	38.89	37.12	35.35	
97137	98137	99137	.2362	6.000	6.0	150	38	53.56	51.23	48.90	46.57	
43077	55577	44077	.2500	1/4"	6.350	1/4"	3"	1"	36.40	34.82	33.23	31.65
43087	55587	44087	.2500	1/4"	6.350	1/4"	4"	1"	38.96	37.27	35.57	33.88
43097	55597	44097	.2500	1/4"	6.350	1/4"	4"	1-1/2"	38.96	37.27	35.57	33.88
43107	55607	44107	.2500	1/4"	6.350	1/4"	6"	1-1/2"	51.35	49.12	46.88	44.65
43117	-	44117	.3125	5/16"	7.938	5/16"	3"	1"	46.41	44.40	42.38	40.36
43127	55627	44127	.3125	5/16"	7.938	5/16"	4"	1"	53.06	50.75	48.45	46.14
43137	55637	44137	.3125	5/16"	7.938	5/16"	4"	1-5/8"	53.06	50.75	48.45	46.14
43147	55647	44147	.3125	5/16"	7.938	5/16"	6"	1-1/2"	77.50	74.13	70.76	67.39
97147	98147	99147	.3150	8.000	8.0	75	25	48.39	46.29	44.18	42.08	
97157	98157	99157	.3150	8.000	8.0	100	25	55.28	52.88	50.47	48.07	
97167	98167	99167	.3150	8.000	8.0	100	41	55.28	52.88	50.47	48.07	
97177	98177	99177	.3150	8.000	8.0	150	50	79.15	75.71	72.27	68.83	

Series 720MA, 723MA, 730MA, 740MA, 743MA, 750MA (continued)

.3750" - 1.000"
(9.525mm - 25.400mm)

GENERAL PURPOSE
END MILLS

(720MA/740MA) 2 Flute EDP#	(723MA/743MA) 3 Flute EDP#	(730MA/750MA) 4 Flute EDP#	$d1$ † Diameter		$d2$ Shank Diameter	$l1$ Overall Length	$l2$ Flute Length	1-11	12-24	25-49	50-100	
			Decimal		Metric							
43157	55657	44157	.3750	3/8"	9.525	3/8"	3"	1"	51.16	48.94	46.71	44.49
43167	55667	44167	.3750	3/8"	9.525	3/8"	4"	1"	57.58	55.08	52.57	50.07
43177	55677	44177	.3750	3/8"	9.525	3/8"	4"	2"	57.58	55.08	52.57	50.07
43187	55687	44187	.3750	3/8"	9.525	3/8"	6"	1-1/2"	79.72	76.25	72.79	69.32
43197	55697	44197	.3750	3/8"	9.525	3/8"	6"	3"	79.72	76.25	72.79	69.32
97187	98187	99187	.3937		10.000	10.0	75	25	55.78	53.35	50.93	48.50
97197	98197	99197	.3937		10.000	10.0	100	25	72.90	69.73	66.56	63.39
97207	98207	99207	.3937		10.000	10.0	100	50	72.90	69.73	66.56	63.39
97217	98217	99217	.3937		10.000	10.0	150	38	95.24	91.10	86.96	82.82
97227	98227	99227	.3937		10.000	10.0	150	75	95.24	91.10	86.96	82.82
43207	-	44207	.4375	7/16"	11.113	7/16"	4"	1"	77.00	73.66	70.31	66.96
-	55717	44217	.4375	7/16"	11.113	7/16"	4"	2"	77.00	73.66	70.31	66.96
43227	-	44227	.4375	7/16"	11.113	7/16"	6"	1-1/2"	101.35	96.94	92.54	88.13
43237	55737	44237	.4375	7/16"	11.113	7/16"	6"	3"	101.35	96.94	92.54	88.13
97237	-	99237	.4724		12.000	12.0	100	25	81.89	78.33	74.77	71.21
97247	98247	99247	.4724		12.000	12.0	100	50	81.89	78.33	74.77	71.21
97257	98257	99257	.4724		12.000	12.0	150	50	110.84	106.02	101.20	96.38
97267	98267	99267	.4724		12.000	12.0	150	75	110.84	106.02	101.20	96.38
43247	55747	44247	.5000	1/2"	12.700	1/2"	4"	1"	78.37	74.97	71.56	68.15
43257	55757	44257	.5000	1/2"	12.700	1/2"	4"	2"	78.37	74.97	71.56	68.15
43267	55767	44267	.5000	1/2"	12.700	1/2"	6"	1-1/2"	110.84	106.02	101.20	96.38
43277	55777	44277	.5000	1/2"	12.700	1/2"	6"	3"	110.84	106.02	101.20	96.38
97277	-	99277	.5512		14.000	14.0	100	25	109.96	105.18	100.40	95.62
-	-	99287	.5512		14.000	14.0	100	50	109.96	105.18	100.40	95.62
97297	-	99297	.5512		14.000	14.0	150	50	150.97	144.41	137.84	131.28
-	-	99307	.5512		14.000	14.0	150	75	150.97	144.41	137.84	131.28
43287	-	44287	.5625	9/16"	14.288	9/16"	6"	2"	150.97	144.41	137.84	131.28
43297	-	44297	.5625	9/16"	14.288	9/16"	6"	3"	150.97	144.41	137.84	131.28
43307	55807	44307	.6250	5/8"	15.875	5/8"	6"	2"	157.99	151.12	144.25	137.38
43317	55817	44317	.6250	5/8"	15.875	5/8"	6"	3"	157.99	151.12	144.25	137.38
97317	98317	99317	.6299		16.000	16.0	150	50	157.99	151.12	144.25	137.38
97327	98327	99327	.6299		16.000	16.0	150	75	157.99	151.12	144.25	137.38
-	98337	99337	.7087		18.000	18.0	150	50	235.32	225.09	214.86	204.63
-	-	99347	.7087		18.000	18.0	150	75	235.32	225.09	214.86	204.63
43327	55827	44327	.7500	3/4"	19.050	3/4"	6"	2"	249.47	238.62	227.78	216.93
43337	55837	44337	.7500	3/4"	19.050	3/4"	6"	3"	249.47	238.62	227.78	216.93
97357	98357	99357	.7874		20.000	20.0	150	50	263.43	251.98	240.52	229.07
97367	98367	99367	.7874		20.000	20.0	150	75	263.43	251.98	240.52	229.07
-	-	99377	.9843		25.000	25.0	150	50	400.04	382.65	365.25	347.86
-	-	99387	.9843		25.000	25.0	150	75	400.04	382.65	365.25	347.86
-	55847	44347	1.000	1"	25.400	1"	6"	2"	414.81	396.77	378.74	360.70
43357	55857	44357	1.000	1"	25.400	1"	6"	3"	414.81	396.77	378.74	360.70

70

35

MATERIAL HARDNESS (Rc)

0