

# Series 620M, 623M, 630M, 640M, 643M, 650M

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



TECH  
PAGES  
262,264

TOLERANCES	
$d_1$	+0.000" - .002" (+0.000 - .050mm)
$d_2$	h6

## Extra Length

Solid submicron grain carbide end mill - center cutting

Extended reach

Can be modified with a neck within 48 hours

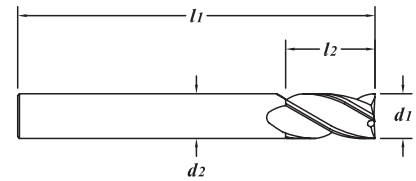
Extremely versatile

TiCN Coating - page 222

TiALN Coating - page 223

Stub Length - page 185

Standard length - page 194



MATERIAL HARDNESS (Rc) 70 35 0

(620M/640M) 2 Flute EDP#	(623M/643M) 3 Flute EDP#	(630M/650M) 4 Flute EDP#	$d_1$ †		$d_2$ Shank Diameter	$l_1$ Overall Length	$l_2$ Flute Length	1-11	12-24	25-49	50-100	
			Decimal	Metric								
92010	93010	94010	.1181	3.000	3.0	50	16	11.64	11.13	10.63	10.12	
92020	93020	94020	.1181	3.000	3.0	75	20	19.78	18.92	18.06	17.20	
92030	93030	94030	.1181	3.000	3.0	75	25	19.78	18.92	18.06	17.20	
41010	54510	42010	.1250	1/8"	3.175	1/8"	2"	5/8"	12.18	11.65	11.12	10.59
41020	54520	42020	.1250	1/8"	3.175	1/8"	3"	3/4"	18.79	17.97	17.16	16.34
41030	54530	42030	.1250	1/8"	3.175	1/8"	3"	1"	18.79	17.97	17.16	16.34
92040	93040	94040	.1575	4.000	4.0	50	16	12.24	11.70	11.17	10.64	
92050	93050	94050	.1575	4.000	4.0	75	20	20.24	19.36	18.48	17.60	
92060	93060	94060	.1575	4.000	4.0	75	25	20.24	19.36	18.48	17.60	
41040	54540	42040	.1875	3/16"	4.763	3/16"	3"	1"	20.73	19.83	18.93	18.03
41050	54550	42050	.1875	3/16"	4.763	3/16"	3"	1-1/8"	20.73	19.83	18.93	18.03
41060	54560	42060	.1875	3/16"	4.763	3/16"	4"	1"	22.90	21.90	20.91	19.91
92070	93070	94070	.1969	5.000	5.0	50	16	14.38	13.75	13.13	12.50	
92080	93080	94080	.1969	5.000	5.0	75	20	21.83	20.88	19.93	18.98	
92090	93090	94090	.1969	5.000	5.0	75	25	21.83	20.88	19.93	18.98	
92100	93100	94100	.2362	6.000	6.0	75	25	25.30	24.20	23.10	22.00	
92110	93110	94110	.2362	6.000	6.0	100	25	26.69	25.53	24.37	23.21	
92120	93120	94120	.2362	6.000	6.0	100	32	26.69	25.53	24.37	23.21	
92130	93130	94130	.2362	6.000	6.0	150	38	36.11	34.54	32.97	31.40	
41070	54570	42070	.2500	1/4"	6.350	1/4"	3"	1"	24.01	22.97	21.92	20.88
41080	54580	42080	.2500	1/4"	6.350	1/4"	4"	1"	25.36	24.26	23.15	22.05
41090	54590	42090	.2500	1/4"	6.350	1/4"	4"	1-1/2"	25.36	24.26	23.15	22.05
41100	54600	42100	.2500	1/4"	6.350	1/4"	6"	1-1/2"	34.29	32.80	31.31	29.82
41110	54610	42110	.3125	5/16"	7.938	5/16"	3"	1"	29.64	28.35	27.06	25.77
41120	54620	42120	.3125	5/16"	7.938	5/16"	4"	1"	33.09	31.65	30.21	28.77
41130	54630	42130	.3125	5/16"	7.938	5/16"	4"	1-5/8"	33.09	31.65	30.21	28.77
41140	54640	42140	.3125	5/16"	7.938	5/16"	6"	1-1/2"	49.07	46.94	44.80	42.67
92140	93140	94140	.3150	8.000	8.0	75	25	31.21	29.85	28.50	27.14	
92150	93150	94150	.3150	8.000	8.0	100	25	34.81	33.30	31.78	30.27	
92160	93160	94160	.3150	8.000	8.0	100	41	34.81	33.30	31.78	30.27	
92170	93170	94170	.3150	8.000	8.0	150	50	50.31	48.13	45.94	43.75	

# Series 620M, 623M, 630M, 640M, 643M, 650M (continued)

.3750" - 1.250"  
(9.525mm - 31.750mm)

END MILLS

(620M/640M) 2 Flute EDP#	(623M/643M) 3 Flute EDP#	(630M/650M) 4 Flute EDP#	$d1$ †		$d2$ Shank Diameter	$l1$ Overall Length	$l2$ Flute Length	1-11	12-24	25-49	50-100	
			Decimal	Diameter								Metric
41150	54650	42150	.3750	3/8"	9.525	3/8"	3"	1"	33.34	31.89	30.44	28.99
41160	54660	42160	.3750	3/8"	9.525	3/8"	4"	1"	36.60	35.01	33.42	31.83
41170	54670	42170	.3750	3/8"	9.525	3/8"	4"	2"	36.60	35.01	33.42	31.83
41180	54680	42180	.3750	3/8"	9.525	3/8"	6"	1-1/2"	53.35	51.03	48.71	46.39
41190	54690	42190	.3750	3/8"	9.525	3/8"	6"	3"	53.35	51.03	48.71	46.39
92180	93180	94180	.3937		10.000	10.0	75	25	36.20	34.63	33.05	31.48
92190	93190	94190	.3937		10.000	10.0	100	25	46.67	44.64	42.61	40.58
92200	93200	94200	.3937		10.000	10.0	100	50	46.67	44.64	42.61	40.58
92210	93210	94210	.3937		10.000	10.0	150	38	61.39	58.72	56.05	53.38
92220	93220	94220	.3937		10.000	10.0	150	75	61.39	58.72	56.05	53.38
41200	54700	42200	.4375	7/16"	11.113	7/16"	4"	1"	50.39	48.20	46.01	43.82
41210	54710	42210	.4375	7/16"	11.113	7/16"	4"	2"	50.39	48.20	46.01	43.82
41220	54720	42220	.4375	7/16"	11.113	7/16"	6"	1-1/2"	66.99	64.08	61.16	58.25
41230	54730	42230	.4375	7/16"	11.113	7/16"	6"	3"	66.99	64.08	61.16	58.25
92230	93230	94230	.4724		12.000	12.0	100	25	56.83	54.36	51.89	49.42
92240	93240	94240	.4724		12.000	12.0	100	50	56.83	54.36	51.89	49.42
92250	93250	94250	.4724		12.000	12.0	150	50	77.50	74.13	70.76	67.39
92260	93260	94260	.4724		12.000	12.0	150	75	77.50	74.13	70.76	67.39
41240	54740	42240	.5000	1/2"	12.700	1/2"	4"	1"	53.60	51.27	48.94	46.61
41250	54750	42250	.5000	1/2"	12.700	1/2"	4"	2"	53.60	51.27	48.94	46.61
41260	54760	42260	.5000	1/2"	12.700	1/2"	6"	1-1/2"	77.50	74.13	70.76	67.39
41270	54770	42270	.5000	1/2"	12.700	1/2"	6"	3"	77.50	74.13	70.76	67.39
92270	93270	94270	.5512		14.000	14.0	100	25	78.03	74.64	71.24	67.85
92280	93280	94280	.5512		14.000	14.0	100	50	78.03	74.64	71.24	67.85
92290	93290	94290	.5512		14.000	14.0	150	50	101.73	97.31	92.88	88.46
92300	93300	94300	.5512		14.000	14.0	150	75	101.73	97.31	92.88	88.46
41280	54780	42280	.5625	9/16"	14.288	9/16"	6"	2"	101.74	97.32	92.89	88.47
41290	54790	42290	.5625	9/16"	14.288	9/16"	6"	3"	101.74	97.32	92.89	88.47
41300	54800	42300	.6250	5/8"	15.875	5/8"	6"	2"	110.47	105.67	100.86	96.06
41310	54810	42310	.6250	5/8"	15.875	5/8"	6"	3"	110.47	105.67	100.86	96.06
92310	93310	94310	.6299		16.000	16.0	150	50	110.47	105.67	100.86	96.06
92320	93320	94320	.6299		16.000	16.0	150	75	110.47	105.67	100.86	96.06
92330	93330	94330	.7087		18.000	18.0	150	50	166.08	158.86	151.64	144.42
92340	93340	94340	.7087		18.000	18.0	150	75	166.08	158.86	151.64	144.42
41320	54820	42320	.7500	3/4"	19.050	3/4"	6"	2"	175.97	168.32	160.67	153.02
41330	54830	42330	.7500	3/4"	19.050	3/4"	6"	3"	175.97	168.32	160.67	153.02
92350	93350	94350	.7874		20.000	20.0	150	50	185.38	177.32	169.26	161.20
92360	93360	94360	.7874		20.000	20.0	150	75	185.38	177.32	169.26	161.20
92370	93370	94370	.9843		25.000	25.0	150	50	285.66	273.24	260.82	248.40
92380	93380	94380	.9843		25.000	25.0	150	75	285.66	273.24	260.82	248.40
41340	54840	42340	1.000	1"	25.400	1"	6"	2"	299.16	286.15	273.15	260.14
41350	54850	42350	1.000	1"	25.400	1"	6"	3"	299.16	286.15	273.15	260.14
-	-	42360	1.000	1"	25.400	1"	6"	4"	314.90	301.21	287.52	273.83
-	-	42390	1.250	1-1/4"	31.750	1-1/4"	6"	3"	634.71	607.11	579.52	551.92

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35

MATERIAL HARDNESS (Rc)

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