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

Z=2 Z=3 Z=4 30°

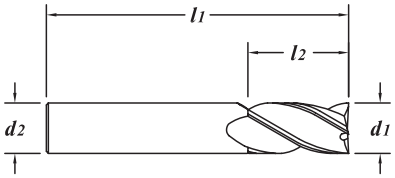
TECH PAGES 290-291



Standard Length - Square End

TiCN Coating

Solid submicron grain carbide end mill - center cutting
Improved abrasion resistance and lubricity
Extremely versatile
Bright Finish - page 228
TiN Coating - page 230
TiALN Coating - page 232
Extended length - page 250



(220MC) 2 Flute EDP#	(223MC) 3 Flute EDP#	(230MC) 4 Flute EDP#	d_1 † Diameter Decimal	d_1 † Diameter	d_1 † Diameter Metric	d_2 Shank Diameter	l_1 Overall Length	l_2 Flute Length
11014	12014	13014	.0312	1/32"	0.792	1/8"	1-1/2"	3/32"
11024	12024	13024	.0469	3/64"	1.191	1/8"	1-1/2"	1/8"
11034	12034	13034	.0625	1/16"	1.588	1/8"	1-1/2"	1/4"
11044	12044	13044	.0781	5/64"	1.984	1/8"	1-1/2"	1/4"
11054	12054	13054	.0938	3/32"	2.383	1/8"	1-1/2"	3/8"
11064	12064	13064	.1094	7/64"	2.779	1/8"	1-1/2"	3/8"
11074	12074	13074	.1250	1/8"	3.175	1/8"	1-1/2"	1/2"
11084	12084	13084	.1406	9/64"	3.571	3/16"	2"	9/16"
11094	12094	13094	.1562	5/32"	3.967	3/16"	2"	9/16"
11104	12104	13104	.1719	11/64"	4.366	3/16"	2"	9/16"
11114	12114	13114	.1875	3/16"	4.763	3/16"	2"	5/8"
11124	12124	13124	.2031	13/64"	5.159	1/4"	2-1/2"	5/8"
11134	12134	13134	.2188	7/32"	5.558	1/4"	2-1/2"	5/8"
11144	12144	13144	.2344	15/64"	5.954	1/4"	2-1/2"	3/4"
11154	12154	13154	.2500	1/4"	6.350	1/4"	2-1/2"	3/4"
11164	12164	13164	.2656	17/64"	6.746	5/16"	2-1/2"	7/8"
11174	12174	13174	.2812	9/32"	7.142	5/16"	2-1/2"	7/8"
11184	12184	13184	.2969	19/64"	7.541	5/16"	2-1/2"	7/8"
11194	12194	13194	.3125	5/16"	7.938	5/16"	2-1/2"	7/8"
11204	12204	13204	.3281	21/64"	8.334	3/8"	2-1/2"	7/8"
11214	12214	13214	.3438	11/32"	8.733	3/8"	2-1/2"	7/8"
11224	12224	13224	.3594	23/64"	9.129	3/8"	2-1/2"	7/8"
11234	12234	13234	.3750	3/8"	9.525	3/8"	2-1/2"	7/8"
11244	-	13244	.3906	25/64"	9.921	7/16"	2-3/4"	7/8"
11254	12254	13254	.4062	13/32"	10.317	7/16"	2-3/4"	7/8"
11264	-	13264	.4219	27/64"	10.716	7/16"	2-3/4"	7/8"
11274	12274	13274	.4375	7/16"	11.113	7/16"	2-3/4"	1"
-	-	13284	.4531	29/64"	11.509	1/2"	3"	1"
11294	12294	13294	.4688	15/32"	11.908	1/2"	3"	1"
-	12304	13304	.4844	31/64"	12.304	1/2"	3"	1"
11314	12314	13314	.5000	1/2"	12.700	1/2"	3"	1"
11324	12324	13324	.5625	9/16"	14.288	9/16"	3-1/2"	1-1/4"
11334	12334	13334	.6250	5/8"	15.875	5/8"	3-1/2"	1-1/4"
11344	-	13344	.6875	11/16"	17.463	3/4"	4"	1-1/2"
11354	12354	13354	.7500	3/4"	19.050	3/4"	4"	1-1/2"
11364	-	13364	.8750	7/8"	22.225	7/8"	4"	1-1/2"
11374	12374	13374	1.000	1"	25.400	1"	4"	1-1/2"

