

180M (980M metric) / z = 2
190M (990M metric) / z = 4

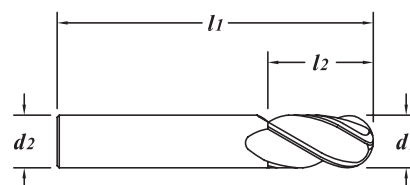
Technical information:
page 200, 202



TOLERANCES

d_1	$\leq .030"$	+0,0100 -0,0100mm (+0.0004" -0.0004")
	$\geq 1/32"$	+0,000 -0,050mm (+0.000" -0.002")
d_2	3mm - 6mm	-0,0000 -0,0075mm (+0.0000" -0.0003")
	1/4" - 1"	-0,0025 -0,0100mm (-0.001" -0.004")
Ball radius		+0,000 -0,025mm (+0.000" -0.001")

Stub Length - Ball End Kurze Länge - Vollradius Longitud Corta - Cabeza Esférica Longueur Courte - Hemispherique Serie Corta - Sferica 短柱长度 - 球头



Solid submicron grain carbide end mill - center cutting
Shorter flute length for rigidity
Extremely versatile
TiALN Coated - page 126



Vollhartmetallfräser aus Feinkornhartmetall - Zentrumschnitt
Kürzere Spannuten für höhere Stabilität
Extrem Vielseitig
Radius Toleranz: +0,000 / -0,025 (+0.000" -0.001")
TiALN-Beschichtet - Seite 126



Fresa de submicrograno sólido carburo - corte centrado
Longitud de ranura más corta para proporcionar mayor rigidez
Extremadamente versátil
Tolerancia de la cabeza esférica +0,000 / -0,025 (+0.000" -0.001")
Recubrimiento de TiALN - Página 126



Fraises carbure submicrograin - coupe au centre
Longueur de coupe courte pour plus de rigidité
Utilisations variables
Tolerance du rayon de hemispherique +0,000 / -0,025 (+0.000" -0.001")
Revêtement TiALN - Page 126



Super sub-micrograno metallo duro - taglio al centro
Tagliente più corto per maggiore rigidità
Estremamente versatile
Tolleranza del raggio +0,000 / -0,025 (+0.000" -0.001")
Rivestimento in TiALN - Pagina 126



超细晶粒整体硬质合金立铣刀 - 中心切削
为了增加刚性应缩短出屑槽长度
功能极多
半径公差 +0,000 / -0,025 (+0.000" -0.001")
TiALN 涂层 - 126页

z = 2 EDP#	z = 4 EDP#	d_1 †		d_2 Shank Diameter	l_1 Overall Length	l_2 Flute Length
		Decimal	Diameter Metric			
03250	-	.0100	.0100"	0,25	1/8"	1-1/2"
03300	-	.0150	.0150"	0,38	1/8"	1-1/2"
03350	-	.0200	.0200"	0,51	1/8"	1-1/2"
03400	-	.0250	.0250"	0,64	1/8"	1-1/2"
03450	-	.0300	.0300"	0,76	1/8"	1-1/2"
03010	04010	.0312	1/32"	0,79	1/8"	1-1/2"
03510	04510	.0394		1,00	3,0	38
03020	04020	.0469	3/64"	1,19	1/8"	1-1/2"
03520	04520	.0591		1,50	3,0	38
03030	04030	.0625	1/16"	1,59	1/8"	1-1/2"
03530	04530	.0787		2,00	3,0	38
03040	04040	.0938	3/32"	2,38	1/8"	1-1/2"
03540	04540	.0984		2,50	3,0	38
03550	04550	.1181		3,00	3,0	38
03050	04050	.1250	1/8"	3,17	1/8"	1-1/2"
03560	04560	.1378		3,50	4,0	50
03060	04060	.1562	5/32"	3,97	3/16"	2"
03570	04570	.1575		4,00	4,0	50
03580	04580	.1772		4,50	5,0	50
03070	04070	.1875	3/16"	4,76	3/16"	2"
03590	04590	.1969		5,00	5,0	50
03080	04080	.2188	7/32"	5,56	1/4"	2"
03600	04600	.2362		6,00	6,0	50
03090	04090	.2500	1/4"	6,35	1/4"	2"
03610	04610	.2756		7,00	7,0	50
03100	04100	.3125	5/16"	7,94	5/16"	2"
03620	04620	.3150		8,00	8,0	50
03630	04630	.3543		9,00	9,0	50
03110	04110	.3750	3/8"	9,52	3/8"	2"
03640	04640	.3937		10,00	10,0	50
03650	04650	.4331		11,00	11,0	65
03120	04120	.4375	7/16"	11,11	7/16"	2-1/2"
03660	04660	.4724		12,00	12,0	65
03130	04130	.5000	1/2"	12,70	1/2"	2-1/2"
03140	04140	.6250	5/8"	15,87	5/8"	3"
03670	04670	.6299		16,00	16,0	75
03150	04150	.7500	3/4"	19,05	3/4"	3"
03680	04680	.7874		20,00	20,0	75
-	04690	.9843		25,00	25,0	75