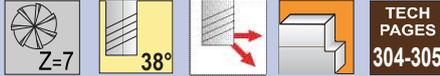


.3150" - .5000"
(8.000mm - 12.700mm)



TOLERANCES	
d_1	+0.000" - .002" (+.000mm - .050mm)
d_2	h6
r	+0.001" - .001" (+.025 - .025mm)

HIGH PERFORMANCE END MILLS

Square End, Corner Radius - AlCrN-based Coated

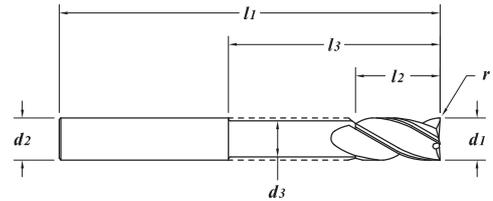
Ohne Eckenradius, Eckenradius - AlCrN-Basierende Beschichtet

Extremo Sin Radio, Ángulo Redondeado - Recubrimiento Basado en AlCrN

Extrémité Carré, Rayon de Coin - Revêtement à base de AlCrN

Piatte, Torico - Rivestimento in Base AlCrN

平头, 圆角半径 - 涂层铝氮化铬



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% (ae) Radial engagement



Hochleistungs-Vollhartmetallfräser aus Feinkornhartmetall - ohne zentrumsschnitt
Entwickelt für hocheffizientes Fräsen
Mehr Zähne für höhere Vorschube
Spezielles Spannut-Design
PCT (Polish Carbide Treatment, Treatment zum Polieren Hartmetall) steigert die Starzeit
Bis zu 15% radialen (ae) eintauchen



Fresa de submicrograno sólido carburo de alto rendimiento - no corte centrado
Diseñado para el fresado de alta eficiencia
Múltiples labios para aumentar las gamas de avance
Labios escalonados
PCT (Polish Carbide Treatment, Tratamiento de pulido) aumenta la vida
Hasta 15% radial (ae)



Fraises carbure submicrograin - pas de coupe au centre
Conçu pour un fraisage à haute efficacité
Fraise multi-lèvres pour de plus grandes avances
Une denture variable réduit les vibrations
PCT (le traitement pour polir le carbure) améliore la durée de vie de l'outil
Jusqu'à 15% amorce radiale (ae)



Fresa sub-micrograno metallo duro - no taglio al centro
Progettato per la fresatura ad alta efficienza
Taglienti multipli per alti avanzamenti
Taglienti sfalsati per controllare le forze
PCT (Polish Carbide Treatment, trattamento di lucidatura del metallo duro) incrementa la vita utensile
Fino a 15% radiale (ae)



高效超细晶粒整体硬质合金立铣刀 - 不切割在中心
有效的摆线 铣削
多刃提高进给率
整个切削刃的螺旋角可变
PCT (硬质合金抛光处理) 使刀具寿命提高
设计并加工0.15倍径切削宽度

EDP#	d_1 † Diameter		d_2 Shank Diameter	l_1 Overall Length	l_2 Flute Length	r Corner Radius	l_3 Reach Length	d_3 Neck Diameter
	Decimal	Metric						
64100	.3150	8.000	8.0	65	22	-	-	-
64102	.3150	8.000	8.0	65	22	0.50	-	-
64104	.3150	8.000	8.0	65	22	1.00	-	-
NEW 64105	.3150	8.000	8.0	75	27	1.60	-	-
64106	.3150	8.000	8.0	75	32	-	-	-
64108	.3150	8.000	8.0	75	32	0.50	-	-
64110	.3150	8.000	8.0	75	32	1.00	-	-
64112	.3750	3/8"	9.525	3/8"	2-1/2"	1"	-	-
64114	.3750	3/8"	9.525	3/8"	2-1/2"	1"	.020"	-
64116	.3750	3/8"	9.525	3/8"	2-1/2"	1"	.030"	-
NEW 64117	.3750	3/8"	9.525	3/8"	3"	1"	.025"	-
64118	.3750	3/8"	9.525	3/8"	3"	1-1/2"	-	-
64120	.3750	3/8"	9.525	3/8"	3"	1-1/2"	.020"	-
64122	.3750	3/8"	9.525	3/8"	3"	1-1/2"	.030"	-
NEW 64123	.3750	3/8"	9.525	3/8"	3"	1-1/2"	.060"	-
NEW 64246	.3750	3/8"	9.525	3/8"	4"	7/8"	.015"	1-7/8"
64124	.3937	10.000	10.0	70	25	-	-	-
64126	.3937	10.000	10.0	70	25	0.50	-	-
64128	.3937	10.000	10.0	70	25	1.00	-	-
64130	.4724	12.000	12.0	75	26	-	-	-
64132	.4724	12.000	12.0	75	26	0.50	-	-
64134	.4724	12.000	12.0	75	26	1.00	-	-
64136	.4724	12.000	12.0	75	32	-	-	-
64138	.4724	12.000	12.0	75	32	0.50	-	-
64140	.4724	12.000	12.0	75	32	1.00	-	-
NEW 64141	.4724	12.000	12.0	100	42	1.00	-	-
64142	.4724	12.000	12.0	100	50	-	-	-
64144	.4724	12.000	12.0	100	50	0.50	-	-
64146	.4724	12.000	12.0	100	50	1.00	-	-
64218	.5000	1/2"	12.700	1/2"	2-1/2"	5/8"	-	-
64220	.5000	1/2"	12.700	1/2"	2-1/2"	5/8"	.015"	-
64222	.5000	1/2"	12.700	1/2"	2-1/2"	5/8"	.030"	-
NEW 64223	.5000	1/2"	12.700	1/2"	2-1/2"	5/8"	.060"	-
64224	.5000	1/2"	12.700	1/2"	3"	1"	-	-
64226	.5000	1/2"	12.700	1/2"	3"	1"	.015"	-
64228	.5000	1/2"	12.700	1/2"	3"	1"	.030"	-

MATERIAL HARDNESS (Rc)

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EDP#	d_1 † Diameter		d_2 Shank Diameter	l_1 Overall Length	l_2 Flute Length	r Corner Radius	l_3 Reach Length	d_3 Neck Diameter
	Decimal	Metric						
64148	.5000	1/2"	12.700	1/2"	3"	1-1/4"	-	-
64150	.5000	1/2"	12.700	1/2"	3"	1-1/4"	.015"	-
64152	.5000	1/2"	12.700	1/2"	3"	1-1/4"	.020"	-
64154	.5000	1/2"	12.700	1/2"	3"	1-1/4"	.030"	-
64156	.5000	1/2"	12.700	1/2"	3"	1-1/4"	.060"	-
NEW 64157	.5000	1/2"	12.700	1/2"	3"	1-1/4"	.125"	-
64158	.5000	1/2"	12.700	1/2"	3-1/2"	1-1/2"	-	-
64160	.5000	1/2"	12.700	1/2"	3-1/2"	1-1/2"	.030"	-
NEW 64161	.5000	1/2"	12.700	1/2"	4"	5/8"	.015"	2-1/8"
NEW 64242	.5000	1/2"	12.700	1/2"	4"	1-5/8"	-	-
NEW 64244	.5000	1/2"	12.700	1/2"	4"	1-5/8"	.015"	-
64162	.5000	1/2"	12.700	1/2"	4"	2"	-	-
NEW 64163	.5000	1/2"	12.700	1/2"	4"	2"	.015"	-
64164	.5000	1/2"	12.700	1/2"	4"	2"	.030"	-
NEW 64165	.5000	1/2"	12.700	1/2"	4"	2"	.125"	-
NEW 64248	.5512		14.000	14.0	88	32	0.50	-
64166	.6250	5/8"	15.875	5/8"	3-1/2"	1-1/4"	-	-
64168	.6250	5/8"	15.875	5/8"	3-1/2"	1-1/4"	.030"	-
64170	.6250	5/8"	15.875	5/8"	3-1/2"	1-1/4"	.060"	-
NEW 64171	.6250	5/8"	15.875	5/8"	3-1/2"	1-1/4"	.120"	-
64172	.6250	5/8"	15.875	5/8"	4"	1-3/4"	-	-
64174	.6250	5/8"	15.875	5/8"	4"	1-3/4"	.030"	-
64176	.6250	5/8"	15.875	5/8"	4"	1-3/4"	.060"	-
NEW 64177	.6250	5/8"	15.875	5/8"	4"	1-3/4"	.120"	-
NEW 64250	.6250	5/8"	15.875	5/8"	4"	2"	.120"	-
64178	.6299		16.000	16.0	88	32	-	-
64180	.6299		16.000	16.0	88	32	0.50	-
64182	.6299		16.000	16.0	88	32	1.00	-
64230	.6299		16.000	16.0	88	32	2.00	-
NEW 64231	.6299		16.000	16.0	100	40	1.00	-
64232	.6299		16.000	16.0	100	40	1.50	-
64234	.6299		16.000	16.0	125	65	0.50	-
64236	.6299		16.000	16.0	125	65	3.00	-
NEW 64252	.7500	3/4"	19.050	3/4"	3"	1"	-	-
NEW 64254	.7500	3/4"	19.050	3/4"	3"	1"	.030"	-
64184	.7500	3/4"	19.050	3/4"	4"	1-1/2"	-	-
64186	.7500	3/4"	19.050	3/4"	4"	1-1/2"	.030"	-
64188	.7500	3/4"	19.050	3/4"	4"	1-1/2"	.060"	-
64190	.7500	3/4"	19.050	3/4"	4"	1-1/2"	.120"	-
NEW 64256	.7500	3/4"	19.050	3/4"	4"	1-3/4"	-	-
NEW 64258	.7500	3/4"	19.050	3/4"	4"	1-3/4"	.030"	-
NEW 64260	.7500	3/4"	19.050	3/4"	5"	1"	.030"	3"
64192	.7500	3/4"	19.050	3/4"	5"	2-1/4"	-	.730"
64194	.7500	3/4"	19.050	3/4"	5"	2-1/4"	.030"	-
64238	.7500	3/4"	19.050	3/4"	5"	2-1/4"	.060"	-
NEW 64262	.7500	3/4"	19.050	3/4"	5"	2-1/4"	.120"	-
NEW 64264	.7500	3/4"	19.050	3/4"	5"	2-1/2"	.060"	-
NEW 64266	.7500	3/4"	19.050	3/4"	6"	1-1/8"	.120"	3-5/8"
64196	.7500	3/4"	19.050	3/4"	6"	3-1/4"	-	.730"
64198	.7500	3/4"	19.050	3/4"	6"	3-1/4"	.030"	-

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MATERIAL HARDNESS (Rc)

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continued →

Series VX-7 (continued)

.7874" - 1.000"
(20.000mm - 25.400mm)

HIGH PERFORMANCE
END MILLS

EDP#	$d1$ † Diameter		$d2$ Shank Diameter	$l1$ Overall Length	$l2$ Flute Length	r Corner Radius	$l3$ Reach Length	$d3$ Neck Diameter
	Decimal	Metric						
64200	.7874	20.000	20.0	100	38	-	-	-
64202	.7874	20.000	20.0	100	38	0.50	-	-
64204	.7874	20.000	20.0	100	38	1.00	-	-
64206	1.000	1" 25.400	1"	4"	1-1/2"	-	-	-
64208	1.000	1" 25.400	1"	4"	1-1/2"	.030"	-	-
64240	1.000	1" 25.400	1"	4"	1-1/2"	.125"	-	-
64210	1.000	1" 25.400	1"	5"	2"	-	-	-
64212	1.000	1" 25.400	1"	5"	2-1/2"	-	-	-
NEW 64213	1.000	1" 25.400	1"	5"	2-1/2"	.030"	-	-
64214	1.000	1" 25.400	1"	6"	3-1/4"	-	-	-
64216	1.000	1" 25.400	1"	6"	3-1/4"	.030"	-	-

