

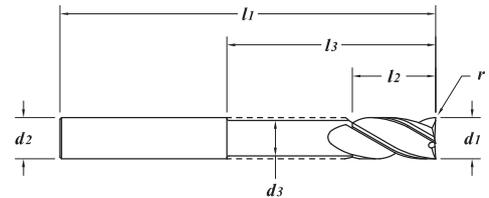
.2362" - .4724"
(6.000mm - 12.000mm)



TOLERANCES	
d_1	+0.001" - .002" (+.000mm - .050mm)
d_2	h6
r	+0.011" - .001" (+.025 - .025mm)

HIGH PERFORMANCE
END MILLS

Square End, Corner Radius - AlTiN Coated
Ohne Eckenradius, Eckenradius - AlTiN-Beschichtet
Extremo Sin Radio, Ángulo Redondeado - Recubrimiento de AlTiN
Extrémité Carré, Rayon de Coin - Revêtement AlTiN
Piatte, Torico - Rivestimento in AlTiN
平头, 圆角半径 - AlTiN 涂层



Solid submicron grain carbide end mill - center cutting
Reduces vibration for more aggressive machining resulting in less cycle times and greater productivity
Recommended for stainless steel, inconel, titanium and tool steels
Staggered flute geometry
Engineered for High Efficiency Milling

Hochleistungs-Vollhartmetallfräser aus Feinkornhartmetall - Zentrumschnitt
Reduziert Vibrationen für eine aggressivere Bearbeitung, um Bearbeitungszeit zu reduzieren und eine grössere Produktivität zu erzielen
Empfohlen für Rostfreien Stahl, Inconel, Titan, und Werkzeugstähle
Entwickelt für hocheffizientes Fräsen

Fresa de submicrograno sólido carburo de alto rendimiento - corte centrado
Reduce las vibraciones hasta en los más agresivos mecanizados, obteniéndose bajos tiempos de ciclo y mayor productividad
Recomendado para acero inoxidable, inconel, acero laminado en frío, hierro de fundición y aceros herramienta
Diseñado para el fresado de alta eficiencia

Fraises carbure submicrograin - coupe au centre
Reduction des vibrations pour un fraisage plus agressif resultant des temps de cycles plus court et une meilleure productivité
Recommandée pour les aciers inoxydables, Inconel, aciers a outils, aciers forges, titane, fontes et aciers a outils
Conçu pour un fraisage à haute efficacité

Fresa sub-micrograno metallo duro - taglio al centro
Riduzioni delle vibrazioni per lavorazioni aggressive per ridurre il tempo ciclo ed aumentare la produttività
Raccomandata per lavorazioni su inox, inconel, titanio e acciai per utensili
Progettato per la fresatura ad alta efficienza

超细晶粒整体硬质合金立铣刀-中心切削
适合更高速度, 更大进给的加工, 可以减少振动, 减少加工时间, 提高生产效率
推荐加工不锈钢, 镍铬铁耐热合金, 含磷材质, 钛钢 和工具钢
有效的振纹抑制

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						
60101	.2362	6.000	6.0	65	20	-	-	-
60103	.2362	6.000	6.0	65	20	0.50	-	-
60100	.2500	1/4"	6.350	1/4"	2-1/2"	3/4"	-	-
60102	.2500	1/4"	6.350	1/4"	2-1/2"	3/4"	.010"	-
60104	.2500	1/4"	6.350	1/4"	2-1/2"	3/4"	.015"	-
60105	.2500	1/4"	6.350	1/4"	2-1/2"	3/4"	.020"	-
60106	.2500	1/4"	6.350	1/4"	2-1/2"	3/4"	.030"	-
60162	.3150	8.000	8.0	65	22	-	-	-
60107	.3150	8.000	8.0	65	22	0.50	-	-
60109	.3750	3/8"	9.525	3/8"	2"	1/2"	-	-
60111	.3750	3/8"	9.525	3/8"	2"	1/2"	.020"	-
60108	.3750	3/8"	9.525	3/8"	2-1/2"	7/8"	-	-
60110	.3750	3/8"	9.525	3/8"	2-1/2"	7/8"	.015"	-
60113	.3750	3/8"	9.525	3/8"	2-1/2"	7/8"	.020"	-
60112	.3750	3/8"	9.525	3/8"	2-1/2"	7/8"	.030"	-
60114	.3750	3/8"	9.525	3/8"	2-1/2"	7/8"	.060"	-
60184	.3750	3/8"	9.525	3/8"	3"	1-1/4"	.030"	-
60164	.3937	10.000	10.0	70	22	-	-	-
60115	.3937	10.000	10.0	70	22	0.50	-	-
60117	.3937	10.000	10.0	70	22	1.00	-	-
60119	.4724	12.000	12.0	65	20	-	-	-
60121	.4724	12.000	12.0	65	20	0.50	-	-
60123	.4724	12.000	12.0	75	26	-	-	-
60125	.4724	12.000	12.0	75	26	0.75	-	-
60166	.4724	12.000	12.0	75	32	-	-	-
60127	.4724	12.000	12.0	75	32	0.50	-	-
60129	.4724	12.000	12.0	75	32	1.00	-	-

MATERIAL HARDNESS (Rc)

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**NEW
ITEMS**

Series VRX-6 (continued)

.5000" - 1.000"
(12.700mm - 25.400mm)

HIGH PERFORMANCE
END MILLS

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							
60131	.5000	1/2"	12.700	1/2"	2-1/2"	5/8"	-	-	-
NEW 60185	.5000	1/2"	12.700	1/2"	2-1/2"	5/8"	.010"	-	-
60157	.5000	1/2"	12.700	1/2"	2-1/2"	5/8"	.015"	-	-
60133	.5000	1/2"	12.700	1/2"	2-1/2"	5/8"	.020"	-	-
60159	.5000	1/2"	12.700	1/2"	2-1/2"	5/8"	.030"	-	-
NEW 60189	.5000	1/2"	12.700	1/2"	2-1/2"	5/8"	.060"	-	-
60186	.5000	1/2"	12.700	1/2"	2-1/2"	5/8"	.125"	-	-
60135	.5000	1/2"	12.700	1/2"	3"	1"	-	-	-
60201	.5000	1/2"	12.700	1/2"	3"	1"	.030"	-	-
60116	.5000	1/2"	12.700	1/2"	3"	1-1/4"	-	-	-
60118	.5000	1/2"	12.700	1/2"	3"	1-1/4"	.010"	-	-
60120	.5000	1/2"	12.700	1/2"	3"	1-1/4"	.015"	-	-
60122	.5000	1/2"	12.700	1/2"	3"	1-1/4"	.020"	-	-
60124	.5000	1/2"	12.700	1/2"	3"	1-1/4"	.030"	-	-
60126	.5000	1/2"	12.700	1/2"	3"	1-1/4"	.060"	-	-
60128	.5000	1/2"	12.700	1/2"	3"	1-1/4"	.125"	-	-
60137	.5000	1/2"	12.700	1/2"	4"	1-1/2"	-	-	-
60139	.5000	1/2"	12.700	1/2"	4"	1-1/2"	.030"	-	-
60190	.5000	1/2"	12.700	1/2"	4"	1-5/8"	-	-	-
60194	.5000	1/2"	12.700	1/2"	4"	1-5/8"	.030"	-	-
60196	.5000	1/2"	12.700	1/2"	4"	1-5/8"	.060"	-	-
60130	.5000	1/2"	12.700	1/2"	4"	2-1/8"	-	-	-
60132	.5000	1/2"	12.700	1/2"	4"	2-1/8"	.010"	-	-
60134	.5000	1/2"	12.700	1/2"	4"	2-1/8"	.020"	-	-
60136	.5000	1/2"	12.700	1/2"	4"	2-1/8"	.030"	-	-
60200	.5000	1/2"	12.700	1/2"	4"	2-1/8"	.060"	-	-
60141	.6250	5/8"	15.875	5/8"	3"	3/4"	-	-	-
NEW 60143	.6250	5/8"	15.875	5/8"	3"	3/4"	.020"	-	-
60138	.6250	5/8"	15.875	5/8"	3-1/2"	1-1/4"	-	-	-
60140	.6250	5/8"	15.875	5/8"	3-1/2"	1-1/4"	.015"	-	-
60145	.6250	5/8"	15.875	5/8"	3-1/2"	1-1/4"	.020"	-	-
60142	.6250	5/8"	15.875	5/8"	3-1/2"	1-1/4"	.030"	-	-
60144	.6250	5/8"	15.875	5/8"	3-1/2"	1-1/4"	.060"	-	-
60146	.6250	5/8"	15.875	5/8"	3-1/2"	1-1/4"	.125"	-	-
60148	.6250	5/8"	15.875	5/8"	4"	1-5/8"	-	-	-
60150	.6250	5/8"	15.875	5/8"	4"	1-5/8"	.030"	-	-
60168	.6299		16.000	16.0	88	32	-	-	-
60170	.6299		16.000	16.0	88	32	0.50	-	-
60174	.6299		16.000	16.0	100	40	-	-	-
60176	.6299		16.000	16.0	100	40	0.50	-	-
60180	.6299		16.000	16.0	100	32	-	50	14.50
NEW 60182	.6299		16.000	16.0	100	32	0.50	50	14.50
60152	.7500	3/4"	19.050	3/4"	4"	1-1/2"	-	-	-
60154	.7500	3/4"	19.050	3/4"	4"	1-1/2"	.015"	-	-
60147	.7500	3/4"	19.050	3/4"	4"	1-1/2"	.020"	-	-
60156	.7500	3/4"	19.050	3/4"	4"	1-1/2"	.030"	-	-
60158	.7500	3/4"	19.050	3/4"	4"	1-1/2"	.060"	-	-
60160	.7500	3/4"	19.050	3/4"	4"	1-1/2"	.125"	-	-
60149	.7500	3/4"	19.050	3/4"	6"	3"	-	-	-
60151	.7500	3/4"	19.050	3/4"	6"	3"	.030"	-	-
NEW 60188	1.000	1"	25.400	1"	4"	1-1/2"	.125"	-	-
60153	1.000	1"	25.400	1"	6"	3"	.030"	-	-
60155	1.000	1"	25.400	1"	7"	1-1/4"	-	4-1/8"	.980"

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MATERIAL HARDNESS (Rc)