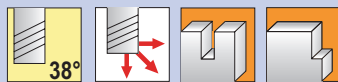


143M / Z = 3

Technical information: page 204

TOLERANCES

d_1	+0,000 -0,025mm (+.000" - .001")
d_2	3mm - 6mm +0,0000 -0,0075mm (+.0000" - .0003")
	1/4" - 1" -0,0025 -0,0100mm (-.0001" - .0004")

.1575" - .3937"
(4,00mm - 10,00mm)

HSAL - ALUMASTAR Coated

HSAL - ALUMASTAR-Beschichtet

HSAL - Recubrimiento de ALUMASTAR

HSAL - Revêtement ALUMASTAR

HSAL - Rivestimento in ALUMASTAR

HSAL - ALUMASTAR 涂层



Solid submicron grain carbide end mill - center cutting
Specific coating engineered to repel aluminum
Engineered to run at 750-2500 SFM (225-750 M/Min.)
For high speed machining of aluminum
High velocity - high metal removal rate (for spindles 5,000-25,000 RPM)
Need to use properly balanced holders
Holds perpendicularity
Flats can be added within 48 hours



Hochleistungs- Vollhartmetallfräser aus Feinkornhartmetall - Zentrumschnitt
Spezielle Beschichtung entwickelt zu abstoßen Aluminium
Entwickelt für Vorschübe von 225 - 750 M/Min. (750 - 2500 SFM)
Für die Hochgeschwindigkeitsbearbeitung von Aluminium
Hohe Geschwindigkeit - Hohe Abtragungsraten (Für Spindeldrehzahlen 5.000-25.000 min⁻¹)
Benutzen Sie korrekt gewichtete Spannmittel
Hilft die Perpendicularität zu halten
Kann mit einer Fläche innerhalb von 48 Stunden werden



Fresa de submicrograno sólido carburo de alto rendimiento - corte centrado
Recubrimiento concebido específicamente para repeler el aluminio
Diseñado para trabajar a 225-750 M/Min. (750-2500 SFM)
Para el mecanizado a alta velocidad de aluminio
Alta velocidad - alto índice de desalajo de viruta (Para husillos de 5.000-25.000 r.p.m.)
Use portaherramientas adecuadaente equilibrados
Ayuda a mantener la perpendicularidad
Puede ser modificado con un plano en 48 horas



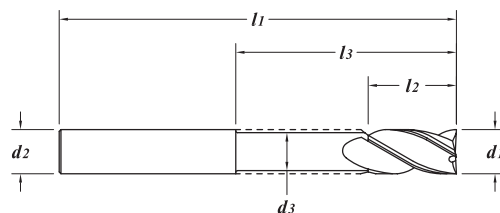
Fraises carbure submicrograin - coupe au centre
Revetement special conçu pour l'aluminium
Developpement pour usiner a 225-750 M/Min. (750-2500 SFM)
Pour haute vitesse usinage pour l'aluminium
Haute vitesse et haut volume copeaux (Pour les mandrins 5,000-25,000 RPM)
Utilisation avec porte outils équilibrés
Aide a tenir la perpendicularite
Peut etre modifier avec un surface plat sous un delai de 48 heures



Super sub-micrograno metallo duro - taglio al centro
Rivestimento specifico costruito per respingere alluminio
Costruito per alta velocità 225-750 M/Min. (750-2500 SFM)
Per lavorazioni ad alta velocità su alluminio
Alta velocità - Alto volume di materiale asportato (Per 5.000-25.000 Giri al minuto)
Usare mandrini bilanciati
Rispettare la perpendicolarità
Può essere modificata in 48 ore



高速加工铝合金整体硬质合金立铣刀 - 中心切削
特殊涂层专为加工铝合金
适用于按750-2500英尺/分 (225-750 米/分) 线速度运转的专用涂层
适合高速加工铝合金
高速 - 高切屑率 用于主轴转速在5,000-25,000 RPM
使用动平衡的刀夹
保持垂直
可在48小时内磨成削平柄



EDP#	d_1 † Diameter		d_2 Shank Diameter	l_1 Overall Length	l_2 Flute Length	l_3 Reach Length	d_3 Neck Diameter
	Decimal	Metric					
41223	.1575	4,00	6,0	50	12	-	-
41243	.1575	4,00	6,0	65	6	16	3,7
NEW 41273	.1875	3/16"	4,76	3/16"	2"	5/16"	-
41283	.1875	3/16"	4,76	3/16"	2"	9/16"	-
41303	.1875	3/16"	4,76	3/16"	3"	7/32"	3/4"
41313	.1875	3/16"	4,76	3/16"	3"	1"	-
41343	.1969	5,00	6,0	65	16	-	-
41363	.1969	5,00	6,0	75	8	20	4,7
41403	.2362	6,00	6,0	65	19	-	-
41423	.2362	6,00	6,0	75	10	25	5,7
NEW 41453	.2500	1/4"	6,35	1/4"	2-1/2"	3/8"	-
41463	.2500	1/4"	6,35	1/4"	2-1/2"	3/4"	-
NEW 41473	.2500	1/4"	6,35	1/4"	3"	1"	-
41493	.2500	1/4"	6,35	1/4"	4"	3/8"	1-1/8"
41503	.2500	1/4"	6,35	1/4"	4"	3/8"	2-1/8"
41513	.2500	1/4"	6,35	1/4"	4"	1-5/8"	-
41543	.2756	7,00	8,0	65	19	-	-
41563	.2756	7,00	8,0	75	12	25	6,4
NEW 41593	.3125	5/16"	7,94	5/16"	2-1/2"	7/16"	-
41603	.3125	5/16"	7,94	5/16"	2-1/2"	3/4"	-
41623	.3125	5/16"	7,94	5/16"	4"	7/16"	1-1/8"
41663	.3150	8,00	8,0	65	19	-	-
41683	.3150	8,00	8,0	75	12	25	7,4
NEW 41693	.3150	8,00	8,0	100	12	55	7,4
NEW 41713	.3750	3/8"	9,52	3/8"	2-1/2"	1/2"	-
41723	.3750	3/8"	9,52	3/8"	2-1/2"	7/8"	-
NEW 41733	.3750	3/8"	9,52	3/8"	3"	1"	-
41763	.3750	3/8"	9,52	3/8"	4"	1/2"	2-1/8"
41773	.3750	3/8"	9,52	3/8"	4"	1-5/8"	-
NEW 42363	.3750	3/8"	9,52	3/8"	4"	2"	-
41783	.3750	3/8"	9,52	3/8"	6"	1/2"	4"
41803	.3937	10,00	10,0	70	24	-	-
41843	.3937	10,00	10,0	100	12	35	9,4
NEW 41853	.3937	10,00	10,0	100	12	55	9,4
NEW 41863	.3937	10,00	10,0	150	12	110	9,4

143M / z = 3 (continued)

.4724" - 1.000"
(12,00mm - 25,40mm)

HIGH PERFORMANCE
END MILLS

EDP#	d_1 †			d_2 Shank Diameter	l_1 Overall Length	l_2 Flute Length	l_3 Reach Length	d_3 Neck Diameter
	Decimal	Diameter	Metric					
	41883	.4724	12,00	12,0	75	32	-	-
NEW	41893	.4724	12,00	12,0	100	50	-	-
	41903	.4724	12,00	12,0	100	16	35	11,4
NEW	41913	.4724	12,00	12,0	100	16	55	11,4
NEW	41923	.4724	12,00	12,0	150	16	110	11,4
NEW	41933	.5000 1/2"	12,70	1/2"	3"	5/8"	-	-
	41943	.5000 1/2"	12,70	1/2"	3"	1-1/4"	-	-
NEW	41963	.5000 1/2"	12,70	1/2"	4"	1-5/8"	-	-
	41973	.5000 1/2"	12,70	1/2"	4"	2"	-	-
	41983	.5000 1/2"	12,70	1/2"	4"	5/8"	2-1/8"	.475"
	41993	.5000 1/2"	12,70	1/2"	6"	5/8"	4-1/8"	.475"
	42003	.5000 1/2"	12,70	1/2"	6"	3-1/8"	-	-
NEW	42013	.6250 5/8"	15,87	5/8"	3-1/2"	3/4"	-	-
	42023	.6250 5/8"	15,87	5/8"	4"	1-5/8"	-	-
NEW	42373	.6250 5/8"	15,87	5/8"	4"	2-1/8"	-	-
	42033	.6250 5/8"	15,87	5/8"	6"	3/4"	2-3/8"	.590"
	42043	.6250 5/8"	15,87	5/8"	6"	3/4"	4-3/8"	.590"
	42053	.6250 5/8"	15,87	5/8"	6"	3-1/4"	-	-
	42083	.6299	16,00	16,0	100	40	-	-
	42103	.6299	16,00	16,0	100	20	40	15,4
NEW	42113	.6299	16,00	16,0	125	20	60	15,4
NEW	42123	.6299	16,00	16,0	150	20	110	15,4
NEW	42133	.7500 3/4"	19,05	3/4"	4"	1"	-	-
	42143	.7500 3/4"	19,05	3/4"	4"	1-5/8"	-	-
	42153	.7500 3/4"	19,05	3/4"	5"	2-1/4"	-	-
	42163	.7500 3/4"	19,05	3/4"	6"	1"	2-1/2"	.715"
	42173	.7500 3/4"	19,05	3/4"	6"	1"	4-3/8"	.715"
NEW	42193	.7500 3/4"	19,05	3/4"	6"	3-1/4"	-	-
NEW	42203	.7874	20,00	20,0	100	25	-	-
	42213	.7874	20,00	20,0	100	32	-	-
	42223	.7874	20,00	20,0	100	20	40	19,0
NEW	42226	.7874	20,00	20,0	125	20	60	19,0
NEW	42233	.7874	20,00	20,0	150	20	85	19,0
NEW	42236	.7874	20,00	20,0	150	20	110	19,0
	42243	.9843	25,00	25,0	100	38	-	-
	42283	.9843	25,00	25,0	100	25	50	24,0
NEW	42286	.9843	25,00	25,0	125	25	65	24,0
NEW	42291	.9843	25,00	25,0	150	25	90	24,0
NEW	42293	1.000 1"	25,40	1"	4"	1"	-	-
	42303	1.000 1"	25,40	1"	4"	1-5/8"	-	-
NEW	42313	1.000 1"	25,40	1"	5"	2"	-	-
	42343	1.000 1"	25,40	1"	6"	1-1/4"	3-3/8"	.960"
	42353	1.000 1"	25,40	1"	6"	3-1/4"	-	-