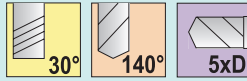


d	+0,0000 -0,0127mm (+.0000" -.0005")
l_1	+3,175 -3,175mm (+.125" -.125")
l_2	+3,175 -3,175mm (+.125" -.125")

.1575" - .3150"
(4,00mm - 8,00mm)



ALUMASTAR Coated

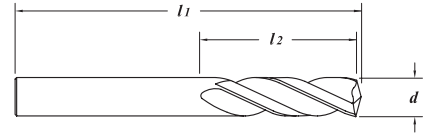
ALUMASTAR-Beschichtet

Recubrimiento de ALUMASTAR

Revêtement ALUMASTAR

Rivestimento in ALUMASTAR

ALUMASTAR 涂层



High performance solid submicron grain carbide drill
Designed for drilling aluminum and other soft materials
No spot drilling required
Unique point geometry and coating for higher speeds and feeds
Up to 5x longer tool life than Zn coated drills
High performance drill point
Live tooling recommended on lathe processes
Shank tolerance: -0,0025 / -0,0100mm (-.0001" -.0004")



Hochleistungs- Vollhartmetallbohrer aus Feinkornhartmetall
Entwickelt für das Bohren von Aluminium und anderen weichen Werkstoffen
Anzentrieren nicht empfohlen
Einzigartige Spitzengeometrie und Beschichtung für höhere Schnittgeschwindigkeiten und Vorschübe
Bis zu 5x höhere Standzeit als Zn Beschichtete Bohrer
Hochleistungsspitzengeometrie
Empfehlung fuer den Einsatz auf der Drehmaschine
Schaft-Toleranz: -0,0025 / -0,0100mm (-.0001" -.0004")



Broca de submicrograno sólido carburo de alto rendimiento
Diseñada para taladrado de aluminio y otros materiales blandos
No require pretaladrado
Geometría de punto único y recubrimiento para altas velocidades y alimentaciones
Durabilidad de la herramienta hasta 5 veces mayor que en brocas con recubrimiento Zn
Ángulo de punta de la broca de alto rendimiento
Recomendación para la aplicación en torno
Tolerancia del vástago: -0,0025 / -0,0100mm (-.0001" -.0004")



Forets carbure submicrograin a haute performances
Developpes pour le perçage des aluminium et autres matieres tendres
Pas de point de centre recommande
Geometrie et revetement unique pour de plus grandes vitesses et avances
Duree de vie 5 fois plus longue que les forest revetus Zn
Foret a haute performance
Outilage allumé est conseillé pendant les process avec le tour
Tolerance de la tige: -0,0025 / -0,0100mm (-.0001" -.0004")



Punta in metallo duro ad alte prestazioni
Progettata per foratura di alluminio e altri materiali non ferrosi
Non richiede centrino
Geometria e rivestimento per alta velocità
Vita utensile fino a 5 volte superiore al rivestimento Zn
Punta ad alte prestazioni
Giri consigliati per forature su tornio
Tolleranza gambo: -0,0025 / -0,0100mm (-.0001" -.0004")



高效整体硬质合金钻头
适合钻削铝合金和其它软性材料
不需要定位钻
独一无二的刀尖几何形状和涂层适合更高转速和更大进给量
刀具使用寿命比氮化钛 (TiN) 涂层钻头长达5倍
140° 高效钻尖
推荐在车床加工中
柄部公差: -0,0025 / -0,0100mm (-.0001" -.0004")

EDP#	$d^{\dagger}$			l_1	l_2
	Decimal	Diameter	Metric	Overall Length	Flute Length
70166	.1575		4,00	65	24
70191	.1772		4,50	65	25
70211	.1875	3/16"	4,76	2-3/4"	1-1/4"
70216	.1890	#12	4,80	2-3/4"	1-1/4"
70221	.1910	#11	4,85	2-3/4"	1-1/4"
70226	.1935	#10	4,91	2-3/4"	1-1/4"
70231	.1969		5,00	75	32
70236	.1990	#8	5,05	3"	1-5/16"
70241	.2010	#7	5,10	3"	1-5/16"
70246	.2031	13/64"	5,16	3"	1-5/16"
70251	.2040	#6	5,18	3"	1-3/8"
70256	.2055	#5	5,22	3"	1-3/8"
70261	.2090	#4	5,31	3"	1-3/8"
70266	.2130	#3	5,41	3"	1-3/8"
70271	.2165		5,50	75	35
70276	.2188	7/32"	5,56	3"	1-3/8"
70281	.2210	#2	5,61	3"	1-3/8"
70286	.2280	#1	5,79	3"	1-3/8"
70296	.2344	15/64"	5,95	3-1/4"	1-1/2"
70301	.2362		6,00	82	38
70306	.2380	B	6,04	3-1/4"	1-5/8"
70311	.2420	C	6,15	3-1/4"	1-5/8"
70316	.2460	D	6,25	3-1/4"	1-5/8"
70321	.2500	1/4" / E	6,35	3-1/4"	1-5/8"
70326	.2559		6,50	82	41
70331	.2570	F	6,53	3-1/4"	1-11/16"
70336	.2610	G	6,63	3-1/2"	1-11/16"
70341	.2656	17/64"	6,75	3-1/2"	1-11/16"
70346	.2660	H	6,76	3-1/2"	1-11/16"
70351	.2720	I	6,91	3-1/2"	1-11/16"
70356	.2756		7,00	88	43
70361	.2770	J	7,03	3-1/2"	1-11/16"
70371	.2812	9/32"	7,14	3-1/2"	1-3/4"
70376	.2900	L	7,37	3-1/2"	1-3/4"
70381	.2953		7,50	95	44
70386	.2969	19/64"	7,54	3-3/4"	1-7/8"
70391	.3020	N	7,67	3-3/4"	1-7/8"
70396	.3125	5/16"	7,94	3-3/4"	1-7/8"
70401	.3150		8,00	95	48

.3160" - .6299"
(8,03mm - 16,00mm)

EDP#	d^+ Diameter			l_1 Overall Length	l_2 Flute Length
	Decimal		Metric		
70406	.3160	O	8,03	3-3/4"	1-7/8"
70411	.3230	P	8,20	3-3/4"	2-3/32"
70416	.3281	21/64"	8,33	4"	2-3/32"
70421	.3320	Q	8,43	4"	2-3/32"
70426	.3346		8,50	100	53
70431	.3390	R	8,61	4"	2-3/32"
70436	.3438	11/32"	8,73	4"	2-3/16"
70441	.3480	S	8,84	4"	2-3/16"
70446	.3543		9,00	100	55
70451	.3580	T	9,09	4-1/4"	2-9/32"
70456	.3594	23/64"	9,13	4-1/4"	2-9/32"
70461	.3680	U	9,35	4-1/4"	2-9/32"
70466	.3740		9,50	108	58
70471	.3750	3/8"	9,52	4-1/4"	2-3/8"
70476	.3770	V	9,57	4-1/4"	2-3/8"
70481	.3860	W	9,80	4-1/2"	2-3/8"
70486	.3906	25/64"	9,92	4-1/2"	2-3/8"
70491	.3937		10,00	114	60
70496	.3970	X	10,08	4-1/2"	2-1/2"
70501	.4040	Y	10,26	4-1/2"	2-9/16"
70506	.4062	13/32"	10,32	4-1/2"	2-9/16"
70511	.4134		10,50	114	67
70516	.4219	27/64"	10,72	4-1/2"	2-11/16"
70521	.4331		11,00	114	68
70526	.4375	7/16"	11,11	4-3/4"	2-13/16"
70531	.4528		11,50	120	70
70536	.4531	29/64"	11,51	4-3/4"	2-7/8"
70541	.4688	15/32"	11,91	4-3/4"	2-7/8"
70546	.4724		12,00	120	73
70551	.4844	31/64"	12,30	5-5/16"	3"
70556	.4921		12,50	135	75
70561	.5000	1/2"	12,70	5-3/8"	3-1/16"
70566	.5118		13,00	136	78
70571	.5156	33/64"	13,10	5-3/8"	3-1/8"
70576	.5312	17/32"	13,49	5-11/16"	3-5/16"
70581	.5469	35/64"	13,89	5-13/16"	3-3/8"
70586	.5512		14,00	148	86
70591	.5625	9/16"	14,29	5-15/16"	3-1/2"
70596	.5781	37/64"	14,68	6"	3-1/2"
70601	.5906		15,00	152	90
70606	.5938	19/32"	15,08	6"	3-9/16"
70611	.6094	39/64"	15,48	6-3/16"	3-11/16"
70616	.6250	5/8"	15,87	6-5/16"	3-3/4"
70621	.6299		16,00	160	95