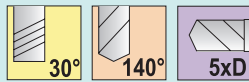


.1181" - .2165"
(3,00mm - 5,50mm)

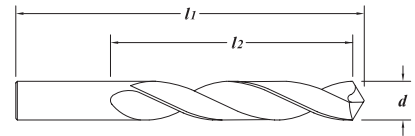


TOLERANCES

d	+0,0000 -0,0127mm (+.0000" -.0005")
l ₁	≤ 1/8" +3,175 -1,588mm (+.125" -.062") > 1/8" +3,175 -3,175mm (+.125" -.125")
l ₂	≤ 1/8" +3,175 -1,588mm (+.125" -.062") > 1/8" +3,175 -3,175mm (+.125" -.125")

HIGH PERFORMANCE DRILLS

Balinit® HARDLUBE Coated
Balinit® HARDLUBE-Beschichtet
Recubrimiento de Balinit® HARDLUBE
Revêtement Balinit® HARDLUBE
Rivestimento in Balinit® HARDLUBE
Balinit® HARDLUBE 涂层



High performance - high penetration solid submicron grain carbide drill
 Extended tool life and greater surface finish through faster SFM rates
 Up to 50% faster than standard carbide drills
 30° helix for better chip evacuation
 Honed cutting edge

Recommended to run in high nickel, high temperature alloys, cobalt-based alloys, stainless steels and tool steels

Live tooling recommended on lathe processes
 Shank tolerance: -0,0025 / -0,0100mm (-.0001" -.0004")



Hochleistungs- Vollhartmetallbohrer aus Feinkornhartmetall
 Hohe Leistung - Hohe Vorschubgeschwindigkeiten
 Bis zu 50% schneller als Standard Hartmetallbohrer
 30° Spirale für bessere Spanabfuhr
 Gehonte Schneidkante

Empfohlen für Hoch Nickelhaltige und Hochwärmefeste Stähle, Kobaltbasislegierungen, Rostfreier- und Werkzeugstahl

Empfehlung fuer den Einsatz auf der Drehmaschine
 Schaft-Toleranz: -0,0025 / -0,0100mm (-.0001" -.0004")



Broca de submicrograno sólido carburo de alto rendimiento
 Mayor duración de la herramienta y mejores acabados superficiales gracias al mayor índice SFM
 Hasta un 50% más rápidas que las brocas de carburo convencionales
 Hélice de 30° para una mejor evacuación de viruta
 Labio cortante afilado

Recomendado para aleaciones con alto contenido de níquel, aleaciones de alta temperatura, aleaciones con base de cobalto, aceros inoxidables, y aceros de herramienta

Recomendación para la aplicación en torno
 Tolerancia del vástago: -0,0025 / -0,0100mm (-.0001" -.0004")



Forets carbure submicrograin a haute performance - haut pouvoir de coupe
 Amélioration de la durée de vie et de l'état de surface en finition aussi avec des avances plus élevées
 50% plus rapide que les forets carbure standards
 Hélice a 30° pour une meilleure évacuation de copeaux
 Préparation de l'arête de coupe

Recommander pour base nickel, alliages a hautes temperatures, alliages de cobalt, aciers inoxydables et aciers a outils

Outils allumés est conseillé pendant les process avec le tour
 Tolerance de la tige: -0,0025 / -0,0100mm (-.0001" -.0004")



Alte prestazioni - Alta penetrazioni Super sub-micrograno metallo duro
 Vita utensile più lunga e ottima finitura della superficie con maggiori avanzamenti
 Fino al 50% più veloce rispetto alle punte in metallo duro standard
 Elica a 30° per una migliore evacuazione del truciolo
 Tagliente onato

Raccomandata per lavorazioni su nickel, superleghe, leghe ad alta percentuale di cobalto, inox e acciai per utensili

Giri consigliati per forature su tornio
 Tolleranza gambo: -0,0025 / -0,0100mm (-.0001" -.0004")



高效率—高进给 高效整体硬质合金钻头
 通过加快切削速度延长刀具使用寿命、提高表面光洁度
 跟普通的硬质合金钻头相比可提高速度高达50%
 30°螺旋角更便于排屑
 切削刃经过珩磨

高镍耐高温合金、钴基合金、不锈钢和工具钢
 推荐在车床加工中

柄部公差: -0,0025 / -0,0100mm (-.0001" -.0004")

EDP#	d †		l ₁ Overall Length	l ₂ Flute Length
	Decimal	Diameter Metric		
21301	.1181	3,00	51	19
21306	.1200	#31 3,05	2"	3/4"
21311	.1250	1/8" 3,17	2"	3/4"
21316	.1285	#30 3,26	2-1/4"	3/4"
21321	.1360	#29 3,45	2-1/4"	7/8"
21326	.1378	3,50	57	22
21331	.1405	#28 3,57	2-1/4"	7/8"
21336	.1406	9/64" 3,57	2-1/4"	7/8"
21341	.1440	#27 3,67	2-1/4"	7/8"
21346	.1470	#26 3,73	2-1/4"	7/8"
21351	.1495	#25 3,80	2-1/4"	15/16"
21356	.1520	#24 3,86	2-1/4"	15/16"
21361	.1540	#23 3,91	2-1/4"	15/16"
21366	.1562	5/32" 3,97	2-1/2"	15/16"
21371	.1570	#22 3,99	2-1/2"	15/16"
21376	.1575	4,00	64	24
21381	.1590	#21 4,04	2-1/2"	15/16"
21386	.1610	#20 4,09	2-1/2"	15/16"
21391	.1660	#19 4,22	2-1/2"	1"
21396	.1695	#18 4,30	2-1/2"	1"
21401	.1719	11/64" 4,37	2-1/2"	1"
21406	.1730	#17 4,39	2-1/2"	1"
21411	.1770	#16 4,49	2-1/2"	1"
21416	.1772	4,50	65	25
21421	.1800	#15 4,57	2-3/4"	1"
21426	.1820	#14 4,62	2-3/4"	1"
21431	.1850	#13 4,70	2-3/4"	1-1/4"
21436	.1875	3/16" 4,76	2-3/4"	1-1/4"
21441	.1890	#12 4,80	2-3/4"	1-1/4"
21446	.1910	#11 4,85	2-3/4"	1-1/4"
21451	.1935	#10 4,91	2-3/4"	1-1/4"
21456	.1960	#9 4,98	3"	1-5/16"
21461	.1969	5,00	76	33
21466	.1990	#8 5,05	3"	1-5/16"
21471	.2010	#7 5,10	3"	1-5/16"
21476	.2031	13/64" 5,16	3"	1-5/16"
21481	.2040	#6 5,18	3"	1-3/8"
21486	.2055	#5 5,22	3"	1-3/8"
21491	.2090	#4 5,31	3"	1-3/8"
21496	.2130	#3 5,41	3"	1-3/8"
21501	.2165	5,50	76	35

continued →

1280H / z = 2 (continued).2188" - .4528"
(5,56mm - 11,50mm)

EDP#	$d^{\dagger}$ Diameter		l_1 Overall Length	l_2 Flute Length
	Decimal	Metric		
21506	.2188	7/32"	3"	1-3/8"
21511	.2210	#2	3"	1-3/8"
21516	.2280	#1	3"	1-3/8"
21521	.2340	A	3-1/4"	1-1/2"
21526	.2344	15/64"	3-1/4"	1-1/2"
21531	.2362		6,00	83
21536	.2380	B	3-1/4"	1-5/8"
21541	.2420	C	3-1/4"	1-5/8"
21546	.2460	D	3-1/4"	1-5/8"
21551	.2500	1/4" / E	3-1/4"	1-5/8"
21556	.2559		6,50	83
21561	.2570	F	3-1/4"	1-11/16"
21566	.2610	G	3-1/2"	1-11/16"
21571	.2656	17/64"	3-1/2"	1-11/16"
21576	.2660	H	3-1/2"	1-11/16"
21581	.2720	I	3-1/2"	1-11/16"
21586	.2756		7,00	89
21591	.2770	J	3-1/2"	1-11/16"
21596	.2810	K	3-1/2"	1-3/4"
21601	.2812	9/32"	3-1/2"	1-3/4"
21606	.2900	L	3-1/2"	1-3/4"
21611	.2950	M	3-3/4"	1-3/4"
21616	.2953		7,50	95
21621	.2969	19/64"	3-3/4"	1-7/8"
21626	.3020	N	3-3/4"	1-7/8"
21631	.3125	5/16"	3-3/4"	1-7/8"
21636	.3150		8,00	95
21641	.3160	O	3-3/4"	1-7/8"
21646	.3230	P	3-3/4"	2-3/32"
21651	.3281	21/64"	4"	2-3/32"
21656	.3320	Q	4"	2-3/32"
21661	.3346		8,50	102
21666	.3390	R	4"	2-3/32"
21671	.3438	11/32"	4"	2-3/16"
21676	.3480	S	4"	2-3/16"
21681	.3543		9,00	102
21686	.3580	T	4-1/4"	2-9/32"
21691	.3594	23/64"	4-1/4"	2-9/32"
21696	.3680	U	4-1/4"	2-9/32"
21701	.3740		9,50	108
21706	.3750	3/8"	4-1/4"	2-3/8"
21711	.3770	V	4-1/4"	2-3/8"
21716	.3860	W	4-1/2"	2-3/8"
21721	.3906	25/64"	4-1/2"	2-3/8"
21726	.3937		10,00	114
21731	.3970	X	4-1/2"	2-1/2"
21736	.4040	Y	4-1/2"	2-9/16"
21741	.4062	13/32"	4-1/2"	2-9/16"
21746	.4130	Z	4-1/2"	2-5/8"
21751	.4134		10,50	114
21756	.4219	27/64"	4-1/2"	2-11/16"
21761	.4331		11,00	114
21766	.4375	7/16"	4-3/4"	2-13/16"
21771	.4528		11,50	121

1280H / z = 2 (continued)

.4531" - .6299"
(11,51mm - 16,00mm)

HIGH PERFORMANCE
DRILLS

EDP#	$d^{\dagger}$ Diameter		l_1 Overall Length	l_2 Flute Length	
	Decimal	Metric			
21776	.4531	29/64"	11,51	4-3/4"	2-7/8"
21781	.4688	15/32"	11,91	4-3/4"	2-7/8"
21786	.4724		12,00	121	73
21791	.4844	31/64"	12,30	5-5/16"	3"
21796	.4921		12,50	135	76
21801	.5000	1/2"	12,70	5-3/8"	3-1/16"
21806	.5118		13,00	137	78
21811	.5156	33/64"	13,10	5-3/8"	3-1/8"
21816	.5312	17/32"	13,49	5-11/16"	3-5/16"
21821	.5315		13,50	144	84
21826	.5469	35/64"	13,89	5-13/16"	3-3/8"
21831	.5512		14,00	148	86
21836	.5625	9/16"	14,29	5-15/16"	3-1/2"
21841	.5709		14,50	151	89
21846	.5781	37/64"	14,68	6"	3-1/2"
21851	.5906		15,00	152	90
21856	.5938	19/32"	15,08	6"	3-9/16"
21861	.6094	39/64"	15,48	6-3/16"	3-11/16"
21866	.6102		15,50	157	94
21871	.6250	5/8"	15,87	6-5/16"	3-3/4"
21876	.6299		16,00	160	95