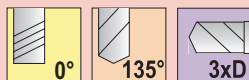


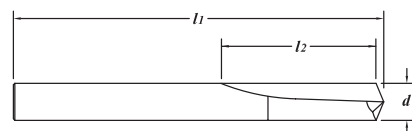
.0625" - .1660"
(1,59mm - 4,22mm)



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")

Hard Metal - **Balinit®** HARDLUBE Coated Hartmetall - **Balinit®** HARDLUBE-Beschichtet Metal Duro - Recubrimiento de **Balinit®** HARDLUBE Métal Dur - Revêtement **Balinit®** HARDLUBE Metallo Duro - Rivestimento in **Balinit®** HARDLUBE 硬金属 - **Balinit®** HARDLUBE 涂层



Solid submicron grain carbide drill
Straight flute design provides excellent rigidity
Materials 40 Rc and higher
Excellent heat resistance and lubricity
Up to 40% faster than uncoated
Recommended for high nickel, cobalt based and powdered metals
Live tooling recommended on lathe processes
Shank tolerance: -0,0025 / -0,0100mm (-.0001" -.0004")



Vollhartmetallbohrer aus Feinkornhartmetall
Gerades Spanntendesign für exzellente Stabilität
Werkstoffe mit 40HRC und höher
Exzellente Hitzebeständigkeit und Schmiereigenschaften
Bis zu 40% schneller als unbeschichtete Werkzeuge
Empfohlen für Hoch Nickelhaltige und Kobaltbasislegierungen, Pulvermetall
Empfehlung fuer den Einsatz auf der Drehmaschine
Schaft-Toleranz: -0,0025 / -0,0100mm (-.0001" -.0004")



Broca de submicrograno sólido carburo
El diseño de ranuras rectas proporciona excelente rigidez
Materiales 40 Rc y superiores
Excelente resistencia térmica y lubricación
Hasta un 40% más rápido que sin recubrimiento
Recomendado para alto contenido en níquel, aleaciones con base de cobalto y metal pulverizado
Recomendación para la aplicación en torno
Tolerancia del vástago: -0,0025 / -0,0100mm (-.0001" -.0004")



Forets carbure submicrograin
Le design de la goujure apporte une excellente rigidité
Matériaux de 40 HRC et plus
Excellente résistance a la haute température et glissement
40% plus rapide que le non revetu
Recommander pour alliages a hautes teneur en nickel, base cobalt et metal fritte
Outilage allumé est conseillé pendant les process avec le tour
Tolerance de la tige: -0,0025 / -0,0100mm (-.0001" -.0004")



Super sub-micrograno metallo duro
Tagliente dritto che consente un'ottima rigidità
Materiali a 40 HRC e superiori
Eccellente resistenza al calore e autolubrificante
Fino al 40% più veloce rispetto al non rivestito
Raccomandata per lavorazioni su leghe di nickel, cobalto e sinterizzati
Giri consigliati per forature su tornio
Tolleranza gambo: -0,0025 / -0,0100mm (-.0001" -.0004")



整体硬质合金钻头
直排屑槽结构保证了极好的刚性
推荐加工洛氏硬度40或40以上的材质
耐热性和润滑性特好
跟无涂层刀具相比可提高速度高达 40%
推荐加工高镍合金、钴基合金和粉末冶金
推荐在车床加工中
柄部公差: -0,0025 / -0,0100mm (-.0001" -.0004")

EDP#	d †		l ₁	l ₂
	Decimal	Metric	Overall Length	Flute Length
59166	.0625	1/16"	1,59	1-5/8"
59181	.0700	#50	1,78	1-11/16"
59186	.0730	#49	1,85	1-11/16"
59191	.0760	#48	1,93	1-11/16"
59196	.0781	5/64"	1,98	1-11/16"
59201	.0785	#47	1,99	1-3/4"
39001	.0787	2,00	50	22
59211	.0810	#46	2,06	2"
59216	.0820	#45	2,08	2"
59221	.0860	#44	2,18	2"
59226	.0890	#43	2,26	2"
59231	.0935	#42	2,37	2"
59236	.0938	3/32"	2,38	2"
59241	.0960	#41	2,44	2"
59246	.0980	#40	2,49	2"
39051	.0984	2,50	50	22
59256	.0995	#39	2,53	2"
59261	.1015	#38	2,58	2"
59266	.1040	#37	2,64	2"
59271	.1065	#36	2,71	2"
59276	.1094	7/64"	2,78	2"
59281	.1100	#35	2,79	2"
59286	.1110	#34	2,82	2"
59291	.1130	#33	2,87	2"
59296	.1160	#32	2,95	2"
39101	.1181	3,00	50	25
59306	.1200	#31	3,05	2"
59311	.1250	1/8"	3,17	2"
59316	.1285	#30	3,26	2"
59321	.1360	#29	3,45	2"
39151	.1378	3,50	50	25
59331	.1405	#28	3,57	2"
59336	.1406	9/64"	3,57	2"
59341	.1440	#27	3,66	2"
59346	.1470	#26	3,73	2"
59351	.1495	#25	3,80	2"
59356	.1520	#24	3,86	2"
59361	.1540	#23	3,91	2"
59366	.1562	5/32"	3,97	2-1/2"
59371	.1570	#22	3,99	2-1/2"
39201	.1575	4,00	63	28
59381	.1590	#21	4,04	2-1/2"
59386	.1610	#20	4,09	2-1/2"
59391	.1660	#19	4,22	2-1/2"

1500H / z = 2 (continued)

.1695" - .5000"
(4,30mm - 12,70mm)

EDP#	d^+ Diameter		l_1 Overall Length	l_2 Flute Length
	Decimal	Metric		
59396	.1695	#18	4,30	2-1/2"
59401	.1719	11/64"	4,37	2-1/2"
59406	.1730	#17	4,39	2-1/2"
59411	.1770	#16	4,49	2-1/2"
39251	.1772		4,50	63
59421	.1800	#15	4,57	2-1/2"
59426	.1820	#14	4,62	2-1/2"
59431	.1850	#13	4,70	2-1/2"
59436	.1875	3/16"	4,76	2-1/2"
59441	.1890	#12	4,80	2-1/2"
59446	.1910	#11	4,85	2-1/2"
59451	.1935	#10	4,91	2-1/2"
59456	.1960	#9	4,98	2-1/2"
39301	.1969		5,00	63
59466	.1990	#8	5,05	2-1/2"
59471	.2010	#7	5,10	2-1/2"
59476	.2031	13/64"	5,16	2-1/2"
59481	.2040	#6	5,18	2-1/2"
59486	.2055	#5	5,22	2-1/2"
59491	.2090	#4	5,31	2-1/2"
59496	.2130	#3	5,41	2-1/2"
39351	.2165		5,50	63
59506	.2188	7/32"	5,56	2-1/2"
59511	.2210	#2	5,61	2-1/2"
59516	.2280	#1	5,79	2-1/2"
59526	.2344	15/64"	5,95	2-1/2"
39401	.2362		6,00	63
59551	.2500	1/4"	6,35	2-1/2"
39451	.2559		6,50	63
59571	.2656	17/64"	6,75	2-1/2"
39501	.2756		7,00	63
59601	.2812	9/32"	7,14	2-1/2"
39521	.2953		7,50	63
59621	.2969	19/64"	7,54	2-1/2"
59631	.3125	5/16"	7,94	2-1/2"
39541	.3150		8,00	63
59651	.3281	21/64"	8,33	3"
39561	.3346		8,50	76
59671	.3438	11/32"	8,73	3"
39581	.3543		9,00	76
59691	.3594	23/64"	9,13	3"
39601	.3740		9,50	76
59706	.3750	3/8"	9,52	3"
59721	.3906	25/64"	9,92	3"
39621	.3937		10,00	76
59741	.4062	13/32"	10,32	3"
39641	.4134		10,50	76
59756	.4219	27/64"	10,72	3"
39661	.4331		11,00	76
59766	.4375	7/16"	11,11	3"
39681	.4528		11,50	76
59776	.4531	29/64"	11,51	3"
59781	.4688	15/32"	11,91	3"
39701	.4724		12,00	76
59791	.4844	31/64"	12,30	3"
39721	.4921		12,50	76
59801	.5000	1/2"	12,70	3"