1510H / z = 2

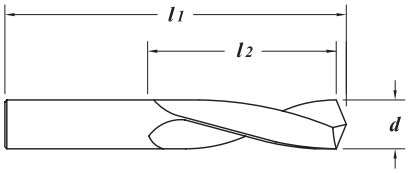
Technical information: page 212-215

.0625" - .1575"
(1,59mm - 4,00mm)

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")

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



Solid submicron grain carbide drill
Excellent heat resistance and lubricity
Up to 40% faster than uncoated
Heavy web for extra rigidity and added strength
Thinned point
Recommended to run in titanium, inconel, hastalloy, waspalloy, and stainless steel
Live tooling recommended on lathe processes
Shank tolerance: –0,0025 / –0,0100mm (–.0001" –.0004")

Vollhartmetallbohrer aus Feinkornhartmetall
Exzellente Hitzebeständigkeit und Schmiereigenschaften
Bis zu 40% schneller als unbeschichtete Werkzeuge
Starke Schneidkante für hohe Stabilität
Ausspitzung
Empfohlen für Titan, Inconel, Hastalloy, Waspalloy, und Rostfreie Stähle
Empfehlung fuer den Einsatz auf der Drehmaschine
Schaft-Toleranz: –0,0025 / –0,0100mm (–.0001" –.0004")

Broca de submicrograno sólido carburo
Excelente resistencia térmica y lubricación
Hasta un 40% más rápido que sin recubrimiento
Cuerpo resistente para mayor rigidez y resistencia
Punta rebajada
Recomendado para titanio, inconel, hastalloy, waspalloy y acero inoxidable
Recomendación para la aplicación en torno
Tolerancia del vástago: –0,0025 / –0,0100mm (–.0001" –.0004")

Forets carbure submicrograin
Excellente resistance a la haute temperature et glissement
40% plus rapide que le non revetu
Corps lourd pour plus de rigidite
Ame amincie
Recommander pour titane, inconel, hastalloy, waspalloy et acier inoxydable
Outillage allumé est conseillé pendant les process avec le tour
Tolerance de la tige: –0,0025 / –0,0100mm (–.0001" –.0004")

Super sub-micrograno metallo duro
Eccellente resistenza al calore e autolubrificante
Fino al 40% più veloce rispetto al non rivestito
Gambo robusto per una massimia rigidità
Centro scaricato
Raccomandata per lavorazioni su titanio, inconel, hastalloy, waspalloy e acciaio inox
Giri consigliati per forature su tornio
Tolleranza gambo: –0,0025 / –0,0100mm (–.0001" –.0004")

整体硬质合金钻头
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%
大的中心刃产生超强刚性和强度
经过修磨的刀尖
推荐加工钛合金、铬镍铁耐热耐蚀合金、耐盐酸镍基合金、耐高热镍基合金和不锈钢合金
推荐在车床加工中
柄部公差: –0,0025 / –0,0100mm (–.0001" –.0004")

EDP#	d † Diameter Decimal		Metric	l_1 Overall Length	l_2 Flute Length
19071	.0625	1/16"	1,59	1-5/8"	5/8"
19076	.0635	#52	1,61	1-11/16"	11/16"
19081	.0670	#51	1,70	1-11/16"	11/16"
19086	.0700	#50	1,78	1-11/16"	11/16"
19091	.0730	#49	1,85	1-11/16"	11/16"
19096	.0760	#48	1,93	1-11/16"	11/16"
19101	.0781	5/64"	1,98	1-11/16"	11/16"
19106	.0785	#47	1,99	1-3/4"	3/4"
19116	.0787		**2,00**	**45**	**19**
19121	.0810	#46	2,06	1-3/4"	3/4"
19126	.0820	#45	2,08	1-3/4"	3/4"
19131	.0860	#44	2,18	1-3/4"	3/4"
19136	.0890	#43	2,26	1-3/4"	3/4"
19141	.0935	#42	2,37	1-3/4"	3/4"
19146	.0938	3/32"	2,38	1-3/4"	3/4"
19151	.0960	#41	2,44	1-13/16"	13/16"
19156	.0980	#40	2,49	1-13/16"	13/16"
19161	.0984		**2,50**	**46**	**21**
19166	.0995	#39	2,53	1-13/16"	13/16"
19171	.1015	#38	2,58	1-13/16"	13/16"
19176	.1040	#37	2,64	1-13/16"	13/16"
19181	.1065	#36	2,71	1-13/16"	13/16"
19186	.1094	7/64"	2,78	1-13/16"	13/16"
19191	.1100	#35	2,79	1-7/8"	7/8"
19196	.1110	#34	2,82	1-7/8"	7/8"
19201	.1130	#33	2,87	1-7/8"	7/8"
19206	.1160	#32	2,95	1-7/8"	7/8"
19211	.1181		**3,00**	**48**	**22**
19216	.1200	#31	3,05	1-7/8"	7/8"
19221	.1250	1/8"	3,17	1-7/8"	7/8"
19226	.1285	#30	3,26	1-15/16"	15/16"
19231	.1360	#29	3,45	1-15/16"	15/16"
19236	.1378		**3,50**	**49**	**24**
19241	.1405	#28	3,57	1-15/16"	15/16"
19246	.1406	9/64"	3,57	1-15/16"	15/16"
19251	.1440	#27	3,66	2-1/16"	1"
19256	.1470	#26	3,73	2-1/16"	1"
19261	.1495	#25	3,80	2-1/16"	1"
19266	.1520	#24	3,86	2-1/16"	1"
19271	.1540	#23	3,91	2-1/16"	1"
19276	.1562	5/32"	3,97	2-1/16"	1"
19281	.1570	#22	3,99	2-1/8"	1-1/16"
19286	.1575		**4,00**	**54**	**27**

continued →

1510H / z = 2 *(continued)*

.1590" - .3346"
(4,04mm - 8,50mm)

EDP#	*d* † Diameter Decimal	Diameter	Metric	*l1* Overall Length	*l2* Flute Length
19291	.1590	#21	4,04	2-1/8"	1-1/16"
19296	.1610	#20	4,09	2-1/8"	1-1/16"
19301	.1660	#19	4,22	2-1/8"	1-1/16"
19306	.1695	#18	4,30	2-1/8"	1-1/16"
19311	.1719	11/64"	4,37	2-1/8"	1-1/16"
19316	.1730	#17	4,39	2-3/16"	1-1/8"
19321	.1770	#16	4,49	2-3/16"	1-1/8"
19326	.1772		**4,50**	**56**	**29**
19331	.1800	#15	4,57	2-3/16"	1-1/8"
19336	.1820	#14	4,62	2-3/16"	1-1/8"
19341	.1850	#13	4,70	2-3/16"	1-1/8"
19346	.1875	3/16"	4,76	2-3/16"	1-1/8"
19351	.1890	#12	4,80	2-1/4"	1-3/16"
19356	.1910	#11	4,85	2-1/4"	1-3/16"
19361	.1935	#10	4,91	2-1/4"	1-3/16"
19366	.1960	#9	4,98	2-1/4"	1-3/16"
19371	.1969		**5,00**	**57**	**30**
19376	.1990	#8	5,05	2-1/4"	1-3/16"
19381	.2010	#7	5,10	2-1/4"	1-3/16"
19386	.2031	13/64"	5,16	2-1/4"	1-3/16"
19391	.2040	#6	5,18	2-3/8"	1-1/4"
19396	.2055	#5	5,22	2-3/8"	1-1/4"
19401	.2090	#4	5,31	2-3/8"	1-1/4"
19406	.2130	#3	5,41	2-3/8"	1-1/4"
19411	.2165		**5,50**	**60**	**32**
19416	.2188	7/32"	5,56	2-3/8"	1-1/4"
19421	.2210	#2	5,61	2-7/16"	1-5/16"
19426	.2280	#1	5,79	2-7/16"	1-5/16"
19431	.2340	A	5,94	2-7/16"	1-5/16"
19436	.2344	15/64"	5,95	2-7/16"	1-5/16"
19441	.2362		**6,00**	**64**	**35**
19446	.2380	B	6,04	2-1/2"	1-3/8"
19451	.2420	C	6,15	2-1/2"	1-3/8"
19456	.2460	D	6,25	2-1/2"	1-3/8"
19461	.2500	1/4" / E	6,35	2-1/2"	1-3/8"
19466	.2559		**6,50**	**67**	**37**
19471	.2570	F	6,53	2-5/8"	1-7/16"
19476	.2610	G	6,63	2-5/8"	1-7/16"
19481	.2656	17/64"	6,75	2-5/8"	1-7/16"
19486	.2660	H	6,76	2-11/16"	1-1/2"
19491	.2720	I	6,91	2-11/16"	1-1/2"
19496	.2756		**7,00**	**68**	**38**
19501	.2770	J	7,03	2-11/16"	1-1/2"
19506	.2810	K	7,14	2-11/16"	1-1/2"
19511	.2812	9/32"	7,14	2-11/16"	1-1/2"
19516	.2900	L	7,37	2-3/4"	1-9/16"
19521	.2950	M	7,49	2-3/4"	1-9/16"
19526	.2953		**7,50**	**70**	**40**
19531	.2969	19/64"	7,54	2-3/4"	1-9/16"
19536	.3020	N	7,67	2-13/16"	1-5/8"
19541	.3125	5/16"	7,94	2-13/16"	1-5/8"
19546	.3150		**8,00**	**75**	**43**
19551	.3160	O	8,03	2-15/16"	1-11/16"
19556	.3230	P	8,20	2-15/16"	1-11/16"
19561	.3281	21/64"	8,33	2-15/16"	1-11/16"
19566	.3320	Q	8,43	3"	1-11/16"
19571	.3346		**8,50**	**76**	**43**

† *Metric equivalents are for reference only*

1510H / z = 2 *(continued)*

.3390" - .6299"
(8,61mm - 16,00mm)

EDP#	*d* † Diameter Decimal		*d* † Diameter Metric	*l1* Overall Length	*l2* Flute Length
19576	.3390	R	8,61	3"	1-11/16"
19581	.3438	11/32"	8,73	3"	1-11/16"
19586	.3480	S	8,84	3-1/16"	1-3/4"
19591	.3543		**9,00**	**78**	**44**
19596	.3580	T	9,09	3-1/16"	1-3/4"
19601	.3594	23/64"	9,13	3-1/16"	1-3/4"
19606	.3680	U	9,35	3-1/8"	1-13/16"
19611	.3740		**9,50**	**79**	**46**
19616	.3750	3/8"	9,52	3-1/8"	1-13/16"
19621	.3770	V	9,57	3-1/4"	1-7/8"
19626	.3860	W	9,80	3-1/4"	1-7/8"
19631	.3906	25/64"	9,92	3-1/4"	1-7/8"
19636	.3937		**10,00**	**84**	**49**
19641	.3970	X	10,08	3-5/16"	1-15/16"
19646	.4040	Y	10,26	3-5/16"	1-15/16"
19651	.4062	13/32"	10,32	3-5/16"	1-15/16"
19656	.4130	Z	10,49	3-3/8"	2"
19661	.4134		**10,50**	**86**	**51**
19666	.4219	27/64"	10,72	3-3/8"	2"
19671	.4331		**11,00**	**87**	**52**
19676	.4375	7/16"	11,11	3-7/16"	2-1/16"
19681	.4528		**11,50**	**91**	**54**
19686	.4531	29/64"	11,51	3-9/16"	2-1/8"
19691	.4688	15/32"	11,91	3-5/8"	2-1/8"
19696	.4724		**12,00**	**94**	**56**
19701	.4844	31/64"	12,30	3-11/16"	2-3/16"
19706	.4921		**12,50**	**95**	**56**
19711	.5000	1/2"	12,70	3-3/4"	2-1/4"
19716	.5118		**13,00**	**107**	**60**
19721	.5156	33/64"	13,10	4-1/4"	2-3/8"
19726	.5312	17/32"	13,49	4-1/4"	2-3/8"
19731	.5315		**13,50**	**107**	**60**
19736	.5469	35/64"	13,89	4-1/4"	2-3/8"
19741	.5512		**14,00**	**107**	**60**
19746	.5625	9/16"	14,29	4-1/2"	2-1/2"
19751	.5709		**14,50**	**115**	**65**
19756	.5781	37/64"	14,68	4-1/2"	2-1/2"
19761	.5906		**15,00**	**115**	**65**
19766	.5938	19/32"	15,08	4-1/2"	2-1/2"
19771	.6094	39/64"	15,48	4-1/2"	2-1/2"
19776	.6102		15,50	115	65
19781	.6250	5/8"	15,87	4-1/2"	2-1/2"
19786	.6299		**16,00**	**115**	**65**