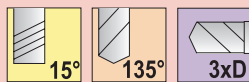


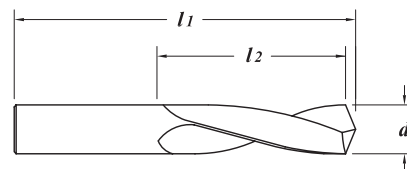
1510 / z = 2

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")



Solid submicron grain carbide drill
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
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
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
Corps lourd pour plus de rigidité
Ame amincie
Recommander pour titane, inconel, hastalloy, waspalloy et acier inoxydable
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
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
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、铬镍铁耐热耐腐蚀合金、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 †		l ₁	l ₂
	Decimal	Diameter Metric	Overall Length	Flute Length
19070	.0625	1/16"	1,59	1-5/8"
19075	.0635	#52	1,61	1-11/16"
19080	.0670	#51	1,70	1-11/16"
19085	.0700	#50	1,78	1-11/16"
19090	.0730	#49	1,85	1-11/16"
19095	.0760	#48	1,93	1-11/16"
19100	.0781	5/64"	1,98	1-11/16"
19105	.0785	#47	1,99	1-3/4"
19115	.0787	2,00	45	19
19120	.0810	#46	2,06	1-3/4"
19125	.0820	#45	2,08	1-3/4"
19130	.0860	#44	2,18	1-3/4"
19135	.0890	#43	2,26	1-3/4"
19140	.0935	#42	2,37	1-3/4"
19145	.0938	3/32"	2,38	1-3/4"
19150	.0960	#41	2,44	1-13/16"
19155	.0980	#40	2,49	1-13/16"
19160	.0984	2,50	46	21
19165	.0995	#39	2,53	1-13/16"
19170	.1015	#38	2,58	1-13/16"
19175	.1040	#37	2,64	1-13/16"
19180	.1065	#36	2,71	1-13/16"
19185	.1094	7/64"	2,78	1-13/16"
19190	.1100	#35	2,79	1-7/8"
19195	.1110	#34	2,82	1-7/8"
19200	.1130	#33	2,87	1-7/8"
19205	.1160	#32	2,95	1-7/8"
19210	.1181	3,00	48	22
19215	.1200	#31	3,05	1-7/8"
19220	.1250	1/8"	3,17	1-7/8"
19225	.1285	#30	3,26	1-15/16"
19230	.1360	#29	3,45	1-15/16"
19235	.1378	3,50	49	24
19240	.1405	#28	3,57	1-15/16"
19245	.1406	9/64"	3,57	1-15/16"
19250	.1440	#27	3,66	2-1/16"
19255	.1470	#26	3,73	2-1/16"
19260	.1495	#25	3,80	2-1/16"
19265	.1520	#24	3,86	2-1/16"
19270	.1540	#23	3,91	2-1/16"
19275	.1562	5/32"	3,97	2-1/16"
19280	.1570	#22	3,99	2-1/8"
19285	.1575	4,00	54	27

EDP#	$d^{\dagger}$ Diameter			l_1 Overall Length	l_2 Flute Length
	Decimal		Metric		
19290	.1590	#21	4,04	2-1/8"	1-1/16"
19295	.1610	#20	4,09	2-1/8"	1-1/16"
19300	.1660	#19	4,22	2-1/8"	1-1/16"
19305	.1695	#18	4,30	2-1/8"	1-1/16"
19310	.1719	11/64"	4,37	2-1/8"	1-1/16"
19315	.1730	#17	4,39	2-3/16"	1-1/8"
19320	.1770	#16	4,49	2-3/16"	1-1/8"
19325	.1772		4,50	56	29
19330	.1800	#15	4,57	2-3/16"	1-1/8"
19335	.1820	#14	4,62	2-3/16"	1-1/8"
19340	.1850	#13	4,70	2-3/16"	1-1/8"
19345	.1875	3/16"	4,76	2-3/16"	1-1/8"
19350	.1890	#12	4,80	2-1/4"	1-3/16"
19355	.1910	#11	4,85	2-1/4"	1-3/16"
19360	.1935	#10	4,91	2-1/4"	1-3/16"
19365	.1960	#9	4,98	2-1/4"	1-3/16"
19370	.1969		5,00	57	30
19375	.1990	#8	5,05	2-1/4"	1-3/16"
19380	.2010	#7	5,10	2-1/4"	1-3/16"
19385	.2031	13/64"	5,16	2-1/4"	1-3/16"
19390	.2040	#6	5,18	2-3/8"	1-1/4"
19395	.2055	#5	5,22	2-3/8"	1-1/4"
19400	.2090	#4	5,31	2-3/8"	1-1/4"
19405	.2130	#3	5,41	2-3/8"	1-1/4"
19410	.2165		5,50	60	32
19415	.2188	7/32"	5,56	2-3/8"	1-1/4"
19420	.2210	#2	5,61	2-7/16"	1-5/16"
19425	.2280	#1	5,79	2-7/16"	1-5/16"
19430	.2340	A	5,94	2-7/16"	1-5/16"
19435	.2344	15/64"	5,95	2-7/16"	1-5/16"
19440	.2362		6,00	64	35
19445	.2380	B	6,04	2-1/2"	1-3/8"
19450	.2420	C	6,15	2-1/2"	1-3/8"
19455	.2460	D	6,25	2-1/2"	1-3/8"
19460	.2500	1/4" / E	6,35	2-1/2"	1-3/8"
19465	.2559		6,50	67	37
19470	.2570	F	6,53	2-5/8"	1-7/16"
19475	.2610	G	6,63	2-5/8"	1-7/16"
19480	.2656	17/64"	6,75	2-5/8"	1-7/16"
19485	.2660	H	6,76	2-11/16"	1-1/2"
19490	.2720	I	6,91	2-11/16"	1-1/2"
19495	.2756		7,00	68	38
19500	.2770	J	7,03	2-11/16"	1-1/2"
19505	.2810	K	7,14	2-11/16"	1-1/2"
19510	.2812	9/32"	7,14	2-11/16"	1-1/2"
19515	.2900	L	7,37	2-3/4"	1-9/16"
19520	.2950	M	7,49	2-3/4"	1-9/16"
19525	.2953		7,50	70	40
19530	.2969	19/64"	7,54	2-3/4"	1-9/16"
19535	.3020	N	7,67	2-13/16"	1-5/8"
19540	.3125	5/16"	7,94	2-13/16"	1-5/8"
19545	.3150		8,00	75	43
19550	.3160	O	8,03	2-15/16"	1-11/16"
19555	.3230	P	8,20	2-15/16"	1-11/16"
19560	.3281	21/64"	8,33	2-15/16"	1-11/16"
19565	.3320	Q	8,43	3"	1-11/16"
19570	.3346		8,50	76	43

continued →

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

EDP#	$d^{\dagger}$ Diameter		l_1 Overall Length	l_2 Flute Length	
	Decimal	Metric			
19575	.3390	R	8,61	3"	1-11/16"
19580	.3438	11/32"	8,73	3"	1-11/16"
19585	.3480	S	8,84	3-1/16"	1-3/4"
19590	.3543		9,00	78	44
19595	.3580	T	9,09	3-1/16"	1-3/4"
19600	.3594	23/64"	9,13	3-1/16"	1-3/4"
19605	.3680	U	9,35	3-1/8"	1-13/16"
19610	.3740		9,50	79	46
19615	.3750	3/8"	9,52	3-1/8"	1-13/16"
19620	.3770	V	9,57	3-1/4"	1-7/8"
19625	.3860	W	9,80	3-1/4"	1-7/8"
19630	.3906	25/64"	9,92	3-1/4"	1-7/8"
19635	.3937		10,00	84	49
19640	.3970	X	10,08	3-5/16"	1-15/16"
19645	.4040	Y	10,26	3-5/16"	1-15/16"
19650	.4062	13/32"	10,32	3-5/16"	1-15/16"
19655	.4130	Z	10,49	3-3/8"	2"
19660	.4134		10,50	86	51
19665	.4219	27/64"	10,72	3-3/8"	2"
19670	.4331		11,00	87	52
19675	.4375	7/16"	11,11	3-7/16"	2-1/16"
19680	.4528		11,50	91	54
19685	.4531	29/64"	11,51	3-9/16"	2-1/8"
19690	.4688	15/32"	11,91	3-5/8"	2-1/8"
19695	.4724		12,00	94	56
19700	.4844	31/64"	12,30	3-11/16"	2-3/16"
19705	.4921		12,50	95	56
19710	.5000	1/2"	12,70	3-3/4"	2-1/4"
19715	.5118		13,00	107	60
19720	.5156	33/64"	13,10	4-1/4"	2-3/8"
19725	.5312	17/32"	13,49	4-1/4"	2-3/8"
19730	.5315		13,50	107	60
19735	.5469	35/64"	13,89	4-1/4"	2-3/8"
19740	.5512		14,00	107	60
19745	.5625	9/16"	14,29	4-1/2"	2-1/2"
19750	.5709		14,50	115	65
19755	.5781	37/64"	14,68	4-1/2"	2-1/2"
19760	.5906		15,00	115	65
19765	.5938	19/32"	15,08	4-1/2"	2-1/2"
19770	.6094	39/64"	15,48	4-1/2"	2-1/2"
19775	.6102		15,50	115	65
19780	.6250	5/8"	15,87	4-1/2"	2-1/2"
19785	.6299		16,00	115	65