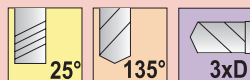


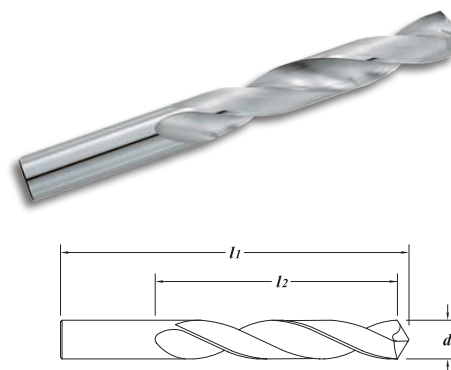
1520 / z = 2

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
No spotting required in most applications
4-facet self-centering point
Recommended to run in stainless steel alloys, mild steels and titanium alloys
Live tooling recommended on lathe processes
Shank tolerance: -0,0025 / -0,0100mm (-.0001" -.0004")



Vollhartmetallbohrer aus Feinkornhartmetall
Vorzentrieren bei den meisten Anwendungen nicht notwendig
4-Fasen-Anschliff Selbstzentrierend Punkt
Empfohlen für Rostfreie Stähle, Fließpresstähle und Titanlegierungen
Empfehlung fuer den Einsatz auf der Drehmaschine
Schaft-Toleranz: -0,0025 / -0,0100mm (-.0001" -.0004")



Broca de submicrograno sólido carburo
No se requiere pretaladrado para la mayoría de las aplicaciones
Punta de 4 caras autocentrada
Recomendado para aleaciones de acero inoxidable, acero suaves y aleaciones de aluminio
Recomendación para la aplicación en torno
Tolerancia del vástago: -0,0025 / -0,0100mm (-.0001" -.0004")



Forets carbure submicrograin
Pas de point de centre requis pour la plupart des applications
Pointe auto centrante avec 4 faces de dépouille
Recommander pour aciers inoxydables, aciers doux et alliages de titane
Outils allumés est conseillé pendant les process avec le tour
Tolerance de la tige: -0,0025 / -0,0100mm (-.0001" -.0004")



Super sub-micrograno metallo duro
Pre-centraggio non richiesto nella maggior parte delle applicazioni
Punto 4 facce autocentrante
Raccomandata per lavorazioni su acciaio inox, acciaio dolce e titanio
Giri consigliati per forature su tornio
Tolleranza gambo: -0,0025 / -0,0100mm (-.0001" -.0004")



整体硬质合金钻头
自定心刀尖
在多数用途中不需要定心
4-小平面刀尖
推荐加工不锈钢合金、中性钢和钛合金钢
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
77165	.0625	1/16"	1,59	1-5/8"
77170	.0635	#52	1,61	1-11/16"
77175	.0670	#51	1,70	1-11/16"
77180	.0700	#50	1,78	1-11/16"
77185	.0730	#49	1,85	1-11/16"
77190	.0760	#48	1,93	1-11/16"
77195	.0781	5/64"	1,98	1-11/16"
77200	.0785	#47	1,99	1-3/4"
77205	.0787	2,00	45	19
77210	.0810	#46	2,06	1-3/4"
77215	.0820	#45	2,08	1-3/4"
77220	.0860	#44	2,18	1-3/4"
77225	.0890	#43	2,26	1-3/4"
77230	.0935	#42	2,37	1-3/4"
77235	.0938	3/32"	2,38	1-3/4"
77240	.0960	#41	2,44	1-13/16"
77245	.0980	#40	2,49	1-13/16"
77250	.0984	2,50	46	21
77255	.0995	#39	2,53	1-13/16"
77260	.1015	#38	2,58	1-13/16"
77265	.1040	#37	2,64	1-13/16"
77270	.1065	#36	2,71	1-13/16"
77275	.1094	7/64"	2,78	1-13/16"
77280	.1100	#35	2,79	1-7/8"
77285	.1110	#34	2,82	1-7/8"
77290	.1130	#33	2,87	1-7/8"
77295	.1160	#32	2,95	1-7/8"
77300	.1181	3,00	48	22
77305	.1200	#31	3,05	1-7/8"
77310	.1250	1/8"	3,17	1-7/8"
77315	.1285	#30	3,26	1-15/16"
77320	.1360	#29	3,45	1-15/16"
77325	.1378	3,50	49	24
77330	.1405	#28	3,57	1-15/16"
77335	.1406	9/64"	3,57	1-15/16"
77340	.1440	#27	3,66	2-1/16"
77345	.1470	#26	3,73	2-1/16"
77350	.1495	#25	3,80	2-1/16"
77355	.1520	#24	3,86	2-1/16"
77360	.1540	#23	3,91	2-1/16"
77365	.1562	5/32"	3,97	2-1/16"
77370	.1570	#22	3,99	2-1/8"
77375	.1575	4,00	54	27

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

EDP#	$d^{\dagger}$ Diameter		l_1 Overall Length	l_2 Flute Length
	Decimal	Metric		
77380	.1590	#21	4,04	2-1/8"
77385	.1610	#20	4,09	2-1/8"
77390	.1660	#19	4,22	2-1/8"
77395	.1695	#18	4,30	2-1/8"
77400	.1719	11/64"	4,37	2-1/8"
77405	.1730	#17	4,39	2-3/16"
77410	.1770	#16	4,49	2-3/16"
77415	.1772		4,50	56
77420	.1800	#15	4,57	2-3/16"
77425	.1820	#14	4,62	2-3/16"
77430	.1850	#13	4,70	2-3/16"
77435	.1875	3/16"	4,76	2-3/16"
77440	.1890	#12	4,80	2-1/4"
77445	.1910	#11	4,85	2-1/4"
77450	.1935	#10	4,91	2-1/4"
77455	.1960	#9	4,98	2-1/4"
77460	.1969		5,00	57
77465	.1990	#8	5,05	2-1/4"
77470	.2010	#7	5,10	2-1/4"
77475	.2031	13/64"	5,16	2-1/4"
77480	.2040	#6	5,18	2-3/8"
77485	.2055	#5	5,22	2-3/8"
77490	.2090	#4	5,31	2-3/8"
77495	.2130	#3	5,41	2-3/8"
77500	.2165		5,50	60
77505	.2188	7/32"	5,56	2-3/8"
77510	.2210	#2	5,61	2-7/16"
77515	.2280	#1	5,79	2-7/16"
77520	.2340	A	5,94	2-7/16"
77525	.2344	15/64"	5,95	2-7/16"
77530	.2362		6,00	64
77535	.2380	B	6,04	2-1/2"
77540	.2420	C	6,15	2-1/2"
77545	.2460	D	6,25	2-1/2"
77550	.2500	1/4" / E	6,35	2-1/2"
77555	.2559		6,50	67
77560	.2570	F	6,53	2-5/8"
77565	.2610	G	6,63	2-5/8"
77570	.2656	17/64"	6,75	2-5/8"
77575	.2660	H	6,76	2-11/16"
77580	.2720	I	6,91	2-11/16"
77585	.2756		7,00	68
77590	.2770	J	7,03	2-11/16"
77595	.2810	K	7,14	2-11/16"
77600	.2812	9/32"	7,14	2-11/16"
77605	.2900	L	7,37	2-3/4"
77610	.2950	M	7,49	2-3/4"
77615	.2953		7,50	70
77620	.2969	19/64"	7,54	2-3/4"
77625	.3020	N	7,67	2-13/16"
77630	.3125	5/16"	7,94	2-13/16"
77635	.3150		8,00	75
77640	.3160	O	8,03	2-15/16"
77645	.3230	P	8,20	2-15/16"
77650	.3281	21/64"	8,33	2-15/16"
77655	.3320	Q	8,43	3"
77660	.3346		8,50	76

continued →

1520 / z = 2 (continued)

.3390" - .5000"
(8,61mm - 12,70mm)

DRILLS

EDP#	$d^{\dagger}$ Diameter		l_1 Overall Length	l_2 Flute Length	
	Decimal	Metric			
77665	.3390	R	8,61	3"	1-11/16"
77670	.3438	11/32"	8,73	3"	1-11/16"
77675	.3480	S	8,84	3-1/16"	1-3/4"
77680	.3543		9,00	78	44
77685	.3580	T	9,09	3-1/16"	1-3/4"
77690	.3594	23/64"	9,13	3-1/16"	1-3/4"
77695	.3680	U	9,35	3-1/8"	1-13/16"
77700	.3740		9,50	79	46
77705	.3750	3/8"	9,52	3-1/8"	1-13/16"
77710	.3770	V	9,57	3-1/4"	1-7/8"
77715	.3860	W	9,80	3-1/4"	1-7/8"
77720	.3906	25/64"	9,92	3-1/4"	1-7/8"
77725	.3937		10,00	84	49
77730	.3970	X	10,08	3-5/16"	1-15/16"
77735	.4040	Y	10,26	3-5/16"	1-15/16"
77740	.4062	13/32"	10,32	3-5/16"	1-15/16"
77745	.4130	Z	10,49	3-3/8"	2"
77750	.4134		10,50	86	51
77755	.4219	27/64"	10,72	3-3/8"	2"
77760	.4331		11,00	87	52
77765	.4375	7/16"	11,11	3-7/16"	2-1/16"
77770	.4528		11,50	91	54
77775	.4531	29/64"	11,51	3-9/16"	2-1/8"
77780	.4688	15/32"	11,91	3-5/8"	2-1/8"
77785	.4724		12,00	94	56
77790	.4844	31/64"	12,30	3-11/16"	2-3/16"
77795	.4921		12,50	95	56
77800	.5000	1/2"	12,70	3-3/4"	2-1/4"