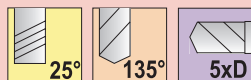


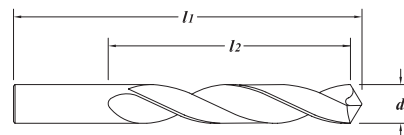
1205 / z = 2

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
Adaptability when converting from high-speed steel
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
Anpassungsfähig beim Umstieg von Hochleistungsschnellstahl (HSS)
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
Adaptable para trabajos con aceros de alta velocidad
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 depouille
Recommander pour aciers inoxydables, aciers doux et alliages de titane
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
Pre-centraggio non richiesto nella maggior parte delle applicazioni
Punto 4 facce autocentrante
Alternativa alle punte tradizionali in HSS
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-小平面自定心刀尖
能适应从高速钢转换
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
89165	.0625	1/16"	1,59	1-5/8"
89170	.0635	#52	1,61	1-11/16"
89175	.0670	#51	1,70	1-11/16"
89180	.0700	#50	1,78	1-11/16"
89185	.0730	#49	1,85	1-11/16"
89190	.0760	#48	1,93	1-11/16"
89195	.0781	5/64"	1,98	1-11/16"
89200	.0785	#47	1,99	1-3/4"
89205	.0787	2,00	44	22
89210	.0810	#46	2,06	1-3/4"
89215	.0820	#45	2,08	1-3/4"
89220	.0860	#44	2,18	2"
89225	.0890	#43	2,26	2"
89230	.0935	#42	2,37	2"
89235	.0938	3/32"	2,38	2"
89240	.0960	#41	2,44	2"
89245	.0980	#40	2,49	2"
89250	.0984	2,50	57	32
89255	.0995	#39	2,53	2-1/4"
89260	.1015	#38	2,58	2-1/4"
89265	.1040	#37	2,64	2-1/4"
89270	.1065	#36	2,71	2-1/4"
89275	.1094	7/64"	2,78	2-1/4"
89280	.1100	#35	2,79	2-1/4"
89285	.1110	#34	2,82	2-1/4"
89290	.1130	#33	2,87	2-1/4"
89295	.1160	#32	2,95	2-1/4"
89300	.1181	3,00	57	32
89305	.1200	#31	3,05	2-1/4"
89310	.1250	1/8"	3,17	2-1/4"
89315	.1285	#30	3,26	2-1/4"
89320	.1360	#29	3,45	2-1/2"
89325	.1378	3,50	63	35
89330	.1405	#28	3,57	2-1/2"
89335	.1406	9/64"	3,57	2-1/2"
89340	.1440	#27	3,66	2-1/2"
89345	.1470	#26	3,73	2-1/2"
89350	.1495	#25	3,80	2-1/2"
89355	.1520	#24	3,86	2-1/2"
89360	.1540	#23	3,91	2-1/2"
89365	.1562	5/32"	3,97	2-1/2"
89370	.1570	#22	3,99	2-1/2"
89375	.1575	4,00	63	35

1205 / z = 2 (continued)

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

DRILLS

EDP#	d^+ Diameter			l_1 Overall Length	l_2 Flute Length
	Decimal		Metric		
89380	.1590	#21	4,04	2-1/2"	1-3/8"
89385	.1610	#20	4,09	2-1/2"	1-3/8"
89390	.1660	#19	4,22	2-3/4"	1-5/8"
89395	.1695	#18	4,30	2-3/4"	1-5/8"
89400	.1719	11/64"	4,37	2-3/4"	1-5/8"
89405	.1730	#17	4,39	2-3/4"	1-5/8"
89410	.1770	#16	4,49	2-3/4"	1-5/8"
89415	.1772		4,50	70	41
89420	.1800	#15	4,57	2-3/4"	1-5/8"
89425	.1820	#14	4,62	2-3/4"	1-5/8"
89430	.1850	#13	4,70	2-3/4"	1-5/8"
89435	.1875	3/16"	4,76	2-3/4"	1-5/8"
89440	.1890	#12	4,80	2-3/4"	1-5/8"
89445	.1910	#11	4,85	2-3/4"	1-5/8"
89450	.1935	#10	4,91	2-3/4"	1-5/8"
89455	.1960	#9	4,98	3"	1-3/4"
89460	.1969		5,00	76	44
89465	.1990	#8	5,05	3"	1-3/4"
89470	.2010	#7	5,10	3"	1-3/4"
89475	.2031	13/64"	5,16	3"	1-3/4"
89480	.2040	#6	5,18	3"	1-3/4"
89485	.2055	#5	5,22	3"	1-3/4"
89490	.2090	#4	5,31	3"	1-3/4"
89495	.2130	#3	5,41	3"	1-3/4"
89500	.2165		5,50	76	44
89505	.2188	7/32"	5,56	3"	1-3/4"
89510	.2210	#2	5,61	3"	1-3/4"
89515	.2280	#1	5,79	3"	1-3/4"
89520	.2340	A	5,94	3-1/4"	2"
89525	.2344	15/64"	5,95	3-1/4"	2"
89530	.2362		6,00	82	50
89535	.2380	B	6,04	3-1/4"	2"
89540	.2420	C	6,15	3-1/4"	2"
89545	.2460	D	6,25	3-1/4"	2"
89550	.2500	1/4" / E	6,35	3-1/4"	2"
89555	.2559		6,50	82	50
89560	.2570	F	6,53	3-1/4"	2"
89565	.2610	G	6,63	3-1/2"	2-1/8"
89570	.2656	17/64"	6,75	3-1/2"	2-1/8"
89575	.2660	H	6,76	3-1/2"	2-1/8"
89580	.2720	I	6,91	3-1/2"	2-1/8"
89585	.2756		7,00	88	54
89590	.2770	J	7,03	3-1/2"	2-1/8"
89595	.2810	K	7,14	3-1/2"	2-1/8"
89600	.2812	9/32"	7,14	3-1/2"	2-1/8"
89605	.2900	L	7,37	3-1/2"	2-1/8"
89610	.2950	M	7,49	3-3/4"	2-3/8"
89615	.2953		7,50	95	60
89620	.2969	19/64"	7,54	3-3/4"	2-3/8"
89625	.3020	N	7,67	3-3/4"	2-3/8"
89630	.3125	5/16"	7,94	3-3/4"	2-3/8"
89635	.3150		8,00	95	60
89640	.3160	O	8,03	3-3/4"	2-3/8"
89645	.3230	P	8,20	3-3/4"	2-3/8"
89650	.3281	21/64"	8,33	4"	2-1/2"
89655	.3320	Q	8,43	4"	2-1/2"
89660	.3346		8,50	101	63

continued →

1205 / z = 2 (continued)

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

EDP#	$d^{\dagger}$ Diameter		l_1 Overall Length	l_2 Flute Length	
	Decimal	Metric			
89665	.3390	R	8,61	4"	2-1/2"
89670	.3438	11/32"	8,73	4"	2-1/2"
89675	.3480	S	8,84	4"	2-1/2"
89680	.3543		9,00	101	63
89685	.3580	T	9,09	4-1/4"	2-3/4"
89690	.3594	23/64"	9,13	4-1/4"	2-3/4"
89695	.3680	U	9,35	4-1/4"	2-3/4"
89700	.3740		9,50	107	70
89705	.3750	3/8"	9,52	4-1/4"	2-3/4"
89710	.3770	V	9,57	4-1/4"	2-3/4"
89715	.3860	W	9,80	4-1/2"	2-7/8"
89720	.3906	25/64"	9,92	4-1/2"	2-7/8"
89725	.3937		10,00	114	73
89730	.3970	X	10,08	4-1/2"	2-7/8"
89735	.4040	Y	10,26	4-1/2"	2-7/8"
89740	.4062	13/32"	10,32	4-1/2"	2-7/8"
89745	.4130	Z	10,49	4-1/2"	2-7/8"
89750	.4134		10,50	114	73
89755	.4219	27/64"	10,72	4-1/2"	2-7/8"
89760	.4331		11,00	114	73
89765	.4375	7/16"	11,11	4-1/2"	2-7/8"
89770	.4528		11,50	120	76
89775	.4531	29/64"	11,51	4-3/4"	3"
89780	.4688	15/32"	11,91	4-3/4"	3"
89785	.4724		12,00	120	76
89790	.4844	31/64"	12,30	4-3/4"	3"
89795	.4921		12,50	120	76
89800	.5000	1/2"	12,70	4-3/4"	3"
89805	.5118		13,00	127	83
89810	.5156	33/64"	13,10	5"	3-1/4"
89815	.5312	17/32"	13,49	5"	3-1/4"
89820	.5315		13,50	127	83
89825	.5469	35/64"	13,89	5"	3-1/4"
89830	.5512		14,00	127	83
89835	.5625	9/16"	14,29	5"	3-1/4"
89840	.5709		14,50	127	83
89845	.5781	37/64"	14,68	5-1/4"	3-1/2"
89850	.5906		15,00	133	89
89855	.5938	19/32"	15,08	5-1/4"	3-1/2"
89860	.6094	39/64"	15,48	5-1/4"	3-1/2"
89865	.6102		15,50	133	89
89870	.6250	5/8"	15,87	5-1/4"	3-1/2"
89875	.6299		16,00	133	89