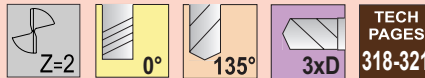


TOLERANCES

d	+.0000" - .0005" (+.0000 - .0127mm)	
l1	≤ 1/8"	+ .125" - .062" (+3.175 - 1.588mm)
	> 1/8"	+ .125" - .125" (+3.175 - 3.175mm)
l2	≤ 1/8"	+ .125" - .062" (+3.175 - 1.588mm)
	> 1/8"	+ .125" - .125" (+3.175 - 3.175mm)

Series 1500

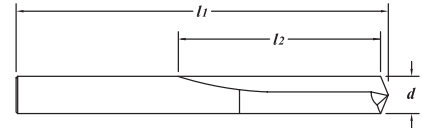
.0625" - .1660"
(1.588mm - 4.216mm)



Recommended for high nickel, cobalt-based, and powdered metals

Hard Metal

- Solid submicron grain carbide drill
- Straight flute design provides excellent rigidity
- Materials 40 Rc and higher
- Live tooling recommended on lathe processes
- Hardlube Coating - page 59



EDP#	d [†] Diameter		l1 Overall Length	l2 Flute Length	1-11	12-24	25-49	50-100	
	Decimal	Metric							
59165	.0625	1/16"	1.588	1-3/4"	5/8"	10.60	10.14	9.68	9.22
59180	.0700	#50	1.778	1-3/4"	3/4"	10.60	10.14	9.68	9.22
59185	.0730	#49	1.854	1-3/4"	3/4"	10.60	10.14	9.68	9.22
59190	.0760	#48	1.930	1-3/4"	3/4"	10.60	10.14	9.68	9.22
59195	.0781	5/64"	1.984	1-3/4"	3/4"	10.60	10.14	9.68	9.22
59200	.0785	#47	1.994	1-3/4"	7/8"	10.60	10.14	9.68	9.22
39000	.0787		2.000	50	22	10.60	10.14	9.68	9.22
59210	.0810	#46	2.057	2"	7/8"	10.60	10.14	9.68	9.22
59215	.0820	#45	2.083	2"	7/8"	10.60	10.14	9.68	9.22
59220	.0860	#44	2.184	2"	7/8"	10.60	10.14	9.68	9.22
59225	.0890	#43	2.261	2"	7/8"	10.60	10.14	9.68	9.22
59230	.0935	#42	2.375	2"	7/8"	10.60	10.14	9.68	9.22
59235	.0938	3/32"	2.383	2"	7/8"	10.60	10.14	9.68	9.22
59240	.0960	#41	2.438	2"	7/8"	12.09	11.56	11.04	10.51
59245	.0980	#40	2.489	2"	7/8"	12.09	11.56	11.04	10.51
39050	.0984		2.500	50	22	12.09	11.56	11.04	10.51
59255	.0995	#39	2.527	2"	7/8"	12.09	11.56	11.04	10.51
59260	.1015	#38	2.578	2"	7/8"	12.09	11.56	11.04	10.51
59265	.1040	#37	2.642	2"	7/8"	12.09	11.56	11.04	10.51
59270	.1065	#36	2.705	2"	7/8"	12.09	11.56	11.04	10.51
59275	.1094	7/64"	2.779	2"	1"	12.09	11.56	11.04	10.51
59280	.1100	#35	2.794	2"	1"	12.57	12.02	11.48	10.93
59285	.1110	#34	2.819	2"	1"	12.57	12.02	11.48	10.93
59290	.1130	#33	2.870	2"	1"	12.57	12.02	11.48	10.93
59295	.1160	#32	2.946	2"	1"	12.57	12.02	11.48	10.93
39100	.1181		3.000	50	25	12.57	12.02	11.48	10.93
59305	.1200	#31	3.048	2"	1"	12.57	12.02	11.48	10.93
59310	.1250	1/8"	3.175	2"	1"	11.59	11.09	10.58	10.08
59315	.1285	#30	3.264	2"	1"	13.67	13.08	12.48	11.89
59320	.1360	#29	3.454	2"	1"	13.67	13.08	12.48	11.89
39150	.1378		3.500	50	25	13.67	13.08	12.48	11.89
59330	.1405	#28	3.569	2"	1"	13.67	13.08	12.48	11.89
59335	.1406	9/64"	3.571	2"	1"	13.67	13.08	12.48	11.89
59340	.1440	#27	3.658	2"	1"	14.04	13.43	12.82	12.21
59345	.1470	#26	3.734	2"	1"	14.75	14.11	13.47	12.83
59350	.1495	#25	3.797	2"	1"	14.75	14.11	13.47	12.83
59355	.1520	#24	3.861	2"	1"	14.75	14.11	13.47	12.83
59360	.1540	#23	3.912	2"	1"	14.75	14.11	13.47	12.83
59365	.1562	5/32"	3.967	2-1/2"	1-1/8"	14.75	14.11	13.47	12.83
59370	.1570	#22	3.988	2-1/2"	1-1/8"	15.99	15.29	14.60	13.90
39200	.1575		4.000	63	28	15.99	15.29	14.60	13.90
59380	.1590	#21	4.039	2-1/2"	1-1/8"	16.36	15.65	14.94	14.23
59385	.1610	#20	4.089	2-1/2"	1-1/8"	16.36	15.65	14.94	14.23
59390	.1660	#19	4.216	2-1/2"	1-1/8"	16.97	16.24	15.50	14.76

continued →

Series 1500 (continued)

.1695" - .5000"
(4.305mm - 12.700mm)

EDP#	d^{\dagger} Diameter		l_1 Overall Length	l_2 Flute Length	1-11	12-24	25-49	50-100	
	Decimal	Metric							
59395	.1695	#18	4.305	2-1/2"	1-3/16"	16.97	16.24	15.50	14.76
59400	.1719	11/64"	4.366	2-1/2"	1-3/16"	16.97	16.24	15.50	14.76
59405	.1730	#17	4.394	2-1/2"	1-3/16"	17.34	16.59	15.83	15.08
59410	.1770	#16	4.496	2-1/2"	1-3/16"	17.34	16.59	15.83	15.08
39250	.1772		4.500	63	28	17.34	16.59	15.83	15.08
59420	.1800	#15	4.572	2-1/2"	1-3/16"	17.34	16.59	15.83	15.08
59425	.1820	#14	4.623	2-1/2"	1-3/16"	18.31	17.51	16.72	15.92
59430	.1850	#13	4.700	2-1/2"	1-3/16"	18.31	17.51	16.72	15.92
59435	.1875	3/16"	4.763	2-1/2"	1-3/16"	17.60	16.83	16.07	15.30
59440	.1890	#12	4.801	2-1/2"	1-3/16"	18.18	17.39	16.60	15.81
59445	.1910	#11	4.851	2-1/2"	1-3/16"	18.18	17.39	16.60	15.81
59450	.1935	#10	4.915	2-1/2"	1-1/4"	19.26	18.43	17.59	16.75
59455	.1960	#9	4.978	2-1/2"	1-1/4"	19.26	18.43	17.59	16.75
39300	.1969		5.000	63	32	19.26	18.43	17.59	16.75
59465	.1990	#8	5.055	2-1/2"	1-1/4"	19.91	19.04	18.18	17.31
59470	.2010	#7	5.105	2-1/2"	1-1/4"	19.91	19.04	18.18	17.31
59475	.2031	13/64"	5.159	2-1/2"	1-1/4"	19.91	19.04	18.18	17.31
59480	.2040	#6	5.182	2-1/2"	1-1/4"	21.00	20.09	19.17	18.26
59485	.2055	#5	5.220	2-1/2"	1-1/4"	21.00	20.09	19.17	18.26
59490	.2090	#4	5.309	2-1/2"	1-1/4"	21.00	20.09	19.17	18.26
59495	.2130	#3	5.410	2-1/2"	1-1/4"	21.00	20.09	19.17	18.26
39350	.2165		5.500	63	32	21.00	20.09	19.17	18.26
59505	.2188	7/32"	5.558	2-1/2"	1-1/2"	21.00	20.09	19.17	18.26
59510	.2210	#2	5.613	2-1/2"	1-1/2"	22.46	21.48	20.51	19.53
59515	.2280	#1	5.791	2-1/2"	1-1/2"	22.46	21.48	20.51	19.53
59525	.2344	15/64"	5.954	2-1/2"	1-1/2"	25.04	23.95	22.86	21.77
39400	.2362		6.000	63	38	25.04	23.95	22.86	21.77
59550	.2500	1/4"	6.350	2-1/2"	1-1/2"	23.58	22.55	21.53	20.50
59570	.2656	17/64"	6.746	2-1/2"	1-1/2"	28.58	27.34	26.09	24.85
39500	.2756		7.000	63	38	29.29	28.02	26.74	25.47
59600	.2812	9/32"	7.142	2-1/2"	1-1/2"	29.29	28.02	26.74	25.47
39520	.2953		7.500	63	41	30.77	29.44	28.10	26.76
59620	.2969	19/64"	7.541	2-1/2"	1-5/8"	30.77	29.44	28.10	26.76
59630	.3125	5/16"	7.938	2-1/2"	1-5/8"	30.77	29.44	28.10	26.76
39540	.3150		8.000	63	41	32.36	30.95	29.55	28.14
59650	.3281	21/64"	8.334	3"	1-5/8"	33.32	31.87	30.42	28.97
39560	.3346		8.500	76	41	37.21	35.60	33.98	32.36
59670	.3438	11/32"	8.733	3"	1-5/8"	37.21	35.60	33.98	32.36
39580	.3543		9.000	76	41	40.41	38.65	36.90	35.14
59690	.3594	23/64"	9.129	3"	1-3/4"	40.41	38.65	36.90	35.14
59705	.3750	3/8"	9.525	3"	1-3/4"	44.06	42.14	40.23	38.31
59720	.3906	25/64"	9.921	3"	1-3/4"	49.80	47.63	45.47	43.30
39620	.3937		10.000	76	44	49.80	47.63	45.47	43.30
59740	.4062	13/32"	10.317	3"	1-3/4"	55.65	53.23	50.81	48.39
39640	.4134		10.500	76	44	58.24	55.70	53.17	50.64
59755	.4219	27/64"	10.716	3"	1-3/4"	61.27	58.61	55.94	53.28
39660	.4331		11.000	76	44	62.38	59.66	56.95	54.24
59765	.4375	7/16"	11.113	3"	1-3/4"	62.38	59.66	56.95	54.24
59775	.4531	29/64"	11.509	3"	1-3/4"	65.40	62.56	59.71	56.87
59780	.4688	15/32"	11.908	3"	1-3/4"	65.40	62.56	59.71	56.87
39700	.4724		12.000	76	44	65.40	62.56	59.71	56.87
59790	.4844	31/64"	12.304	3"	1-3/4"	65.40	62.56	59.71	56.87
39720	.4921		12.500	76	44	66.88	63.98	61.07	58.16
59800	.5000	1/2"	12.700	3"	1-3/4"	66.88	63.98	61.07	58.16