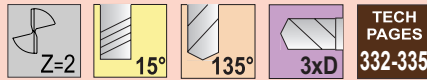


Series 1510H

.0625" - .1575"
(1.588mm - 4.000mm)



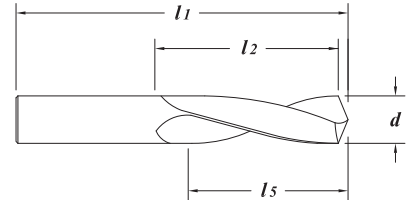
TOLERANCES		
<i>d</i>	+0.000" -0.005" (+0.000 -0.127mm)	
<i>l1</i>	≤ 1/8"	+0.125" -0.62" (+3.175 -1.588mm)
	> 1/8"	+0.125" -0.125" (+3.175 -3.175mm)
<i>l2</i>	≤ 1/8"	+0.125" -0.62" (+3.175 -1.588mm)
	> 1/8"	+0.125" -0.125" (+3.175 -3.175mm)

Recommended for titanium, inconel, hastelloy, waspalyo, and stainless steel

Slow Helix

BALINIT® Durana Coating

- Solid submicron grain carbide drill
- Excellent heat resistance and lubricity
- Heavy web for extra rigidity and added strength
- Thinned point
- Live tooling recommended on lathe processes
- Bright Finish - page 65



EDP#	<i>d</i> † Diameter		<i>l1</i> Overall Length	<i>l2</i> Flute Length	<i>l5</i> Max Drill Depth	LIST PRICE	
	Decimal	Metric					
19071	.0625	1/16"	1.588	1-3/4"	5/8"	.200"	9.37
19076	.0635	#52	1.613	1-3/4"	11/16"	.204"	9.50
19081	.0670	#51	1.702	1-3/4"	11/16"	.215"	9.60
19086	.0700	#50	1.778	1-3/4"	11/16"	.224"	9.80
19091	.0730	#49	1.854	1-3/4"	11/16"	.234"	10.00
19096	.0760	#48	1.930	1-3/4"	11/16"	.244"	10.25
19101	.0781	5/64"	1.984	1-3/4"	11/16"	.250"	10.56
19106	.0785	#47	1.994	1-3/4"	3/4"	.252"	10.85
19116	.0787		2.000	45	19	6	10.99
19121	.0810	#46	2.057	1-3/4"	3/4"	.260"	11.13
19126	.0820	#45	2.083	1-3/4"	3/4"	.263"	11.41
19128	.0827		2.100	45	19	7	11.50
19131	.0860	#44	2.184	1-3/4"	3/4"	.276"	11.71
19136	.0890	#43	2.261	1-3/4"	3/4"	.285"	12.00
19138	.0906		2.300	45	19	7	12.03
19141	.0935	#42	2.375	1-3/4"	3/4"	.300"	12.13
19146	.0938	3/32"	2.383	1-3/4"	3/4"	.301"	12.38
19148	.0945		2.400	46	21	8	12.43
19151	.0960	#41	2.438	1-13/16"	13/16"	.308"	12.46
19156	.0980	#40	2.489	1-13/16"	13/16"	.314"	12.60
19161	.0984		2.500	46	21	8	12.68
19166	.0995	#39	2.527	1-13/16"	13/16"	.319"	12.74
19171	.1015	#38	2.578	1-13/16"	13/16"	.326"	12.81
19176	.1040	#37	2.642	1-13/16"	13/16"	.334"	12.88
19181	.1065	#36	2.705	1-13/16"	13/16"	.342"	12.98
19186	.1094	7/64"	2.779	1-13/16"	13/16"	.351"	13.06
19191	.1100	#35	2.794	1-7/8"	7/8"	.353"	13.11
19196	.1110	#34	2.819	1-7/8"	7/8"	.356"	13.24
19201	.1130	#33	2.870	1-7/8"	7/8"	.362"	13.32
19206	.1160	#32	2.946	1-7/8"	7/8"	.372"	13.41
19211	.1181		3.000	48	22	10	13.53
19216	.1200	#31	3.048	1-7/8"	7/8"	.385"	13.61
19218	.1220		3.100	48	22	10	13.68
19221	.1250	1/8"	3.175	1-7/8"	7/8"	.401"	13.77
19226	.1285	#30	3.264	1-15/16"	15/16"	.412"	14.07
19231	.1360	#29	3.454	1-15/16"	15/16"	.436"	14.38
19236	.1378		3.500	49	24	11	14.78
19241	.1405	#28	3.569	1-15/16"	15/16"	.451"	14.95
19246	.1406	9/64"	3.571	1-15/16"	15/16"	.451"	15.06
19251	.1440	#27	3.658	2-1/16"	1"	.462"	16.24
19256	.1470	#26	3.734	2-1/16"	1"	.471"	16.39
19261	.1495	#25	3.797	2-1/16"	1"	.479"	16.59
19266	.1520	#24	3.861	2-1/16"	1"	.487"	16.61
19271	.1540	#23	3.912	2-1/16"	1"	.494"	16.70
19276	.1562	5/32"	3.967	2-1/16"	1"	.501"	16.79
19281	.1570	#22	3.988	2-1/8"	1-1/16"	.504"	17.70
19286	.1575		4.000	54	27	13	17.90

EDP#	d^+ Diameter		l_1 Overall Length	l_2 Flute Length	l_5 Max Drill Depth	LIST PRICE	
	Decimal	Metric					
19291	.1590	#21	4.039	2-1/8"	1-1/16"	.510"	18.10
19296	.1610	#20	4.089	2-1/8"	1-1/16"	.516"	18.24
19301	.1660	#19	4.216	2-1/8"	1-1/16"	.532"	18.89
19306	.1695	#18	4.305	2-1/8"	1-1/16"	.544"	19.09
19311	.1719	11/64"	4.366	2-1/8"	1-1/16"	.551"	19.45
19316	.1730	#17	4.394	2-3/16"	1-1/8"	.555"	19.69
19321	.1770	#16	4.496	2-3/16"	1-1/8"	.568"	19.89
19326	.1772		4.500	56	29	14	19.97
19331	.1800	#15	4.572	2-3/16"	1-1/8"	.577"	20.06
19336	.1820	#14	4.623	2-3/16"	1-1/8"	.584"	20.47
19341	.1850	#13	4.700	2-3/16"	1-1/8"	.593"	20.62
19346	.1875	3/16"	4.763	2-3/16"	1-1/8"	.601"	20.68
19351	.1890	#12	4.801	2-1/4"	1-3/16"	.606"	22.74
19356	.1910	#11	4.851	2-1/4"	1-3/16"	.613"	22.98
19361	.1935	#10	4.915	2-1/4"	1-3/16"	.621"	23.87
19366	.1960	#9	4.978	2-1/4"	1-3/16"	.629"	24.41
19371	.1969		5.000	57	30	16	24.53
19376	.1990	#8	5.055	2-1/4"	1-3/16"	.638"	24.66
19381	.2010	#7	5.105	2-1/4"	1-3/16"	.645"	25.29
19386	.2031	13/64"	5.159	2-1/4"	1-3/16"	.651"	25.44
19391	.2040	#6	5.182	2-3/8"	1-1/4"	.654"	25.90
19396	.2055	#5	5.220	2-3/8"	1-1/4"	.659"	26.37
19401	.2090	#4	5.309	2-3/8"	1-1/4"	.670"	26.75
19406	.2130	#3	5.410	2-3/8"	1-1/4"	.683"	27.17
19411	.2165		5.500	60	32	18	27.37
19416	.2188	7/32"	5.558	2-3/8"	1-1/4"	.702"	27.53
19421	.2210	#2	5.613	2-7/16"	1-5/16"	.709"	28.11
19426	.2280	#1	5.791	2-7/16"	1-5/16"	.731"	28.27
19431	.2340	A	5.944	2-7/16"	1-5/16"	.750"	28.34
19436	.2344	15/64"	5.954	2-7/16"	1-5/16"	.752"	28.37
19441	.2362		6.000	64	35	19	28.46
19446	.2380	B	6.045	2-1/2"	1-3/8"	.763"	28.56
19451	.2420	C	6.147	2-1/2"	1-3/8"	.776"	28.73
19456	.2460	D	6.248	2-1/2"	1-3/8"	.789"	28.93
19461	.2500	1/4" / E	6.350	2-1/2"	1-3/8"	.802"	29.10
19466	.2559		6.500	67	37	21	32.37
19471	.2570	F	6.528	2-5/8"	1-7/16"	.824"	32.93
19476	.2610	G	6.629	2-5/8"	1-7/16"	.837"	33.47
19481	.2656	17/64"	6.746	2-5/8"	1-7/16"	.852"	34.03
19486	.2660	H	6.756	2-11/16"	1-1/2"	.853"	34.83
19491	.2720	I	6.909	2-11/16"	1-1/2"	.872"	35.15
19496	.2756		7.000	68	38	22	35.39
19501	.2770	J	7.036	2-11/16"	1-1/2"	.888"	35.66
19506	.2810	K	7.137	2-11/16"	1-1/2"	.901"	35.93
19511	.2812	9/32"	7.142	2-11/16"	1-1/2"	.902"	36.05
19516	.2900	L	7.366	2-3/4"	1-9/16"	.930"	37.17
19521	.2950	M	7.493	2-3/4"	1-9/16"	.946"	39.36
19526	.2953		7.500	70	40	24	39.36
19531	.2969	19/64"	7.541	2-3/4"	1-9/16"	.952"	39.52
19536	.3020	N	7.671	2-15/16"	1-5/8"	.989"	41.34
19541	.3125	5/16"	7.938	2-15/16"	1-5/8"	1.002"	41.47
19546	.3150		8.000	75	43	26	44.05
19551	.3160	O	8.026	2-15/16"	1-11/16"	1.013"	44.05
19556	.3230	P	8.204	2-15/16"	1-11/16"	1.036"	44.37
19561	.3281	21/64"	8.334	2-15/16"	1-11/16"	1.052"	44.60
19566	.3320	Q	8.433	3"	1-11/16"	1.065"	45.51
19571	.3346		8.500	76	43	27	45.88

continued →

Series 1510H (continued)

.3390" - .6299"
(8.611mm - 16.000mm)

EDP#	d^{\dagger} Diameter		l_1 Overall Length	l_2 Flute Length	l_5 Max Drill Depth	LIST PRICE	
	Decimal	Metric					
19576	.3390	R	8.611	3"	1-11/16"	1.087"	47.11
19581	.3438	11/32"	8.733	3"	1-11/16"	1.103"	48.79
19586	.3480	S	8.839	3-1/16"	1-3/4"	1.116"	51.52
19591	.3543		9.000	78	44	29	51.82
19596	.3580	T	9.093	3-1/16"	1-3/4"	1.148"	51.94
19601	.3594	23/64"	9.129	3-1/16"	1-3/4"	1.153"	52.27
19606	.3680	U	9.347	3-1/8"	1-13/16"	1.180"	56.45
19611	.3740		9.500	79	46	30	56.91
19616	.3750	3/8"	9.525	3-1/8"	1-13/16"	1.203"	57.29
19621	.3770	V	9.576	3-1/4"	1-7/8"	1.209"	59.44
19626	.3860	W	9.804	3-1/4"	1-7/8"	1.238"	60.47
19631	.3906	25/64"	9.921	3-1/4"	1-7/8"	1.253"	61.23
19636	.3937		10.000	84	49	32	63.09
19641	.3970	X	10.084	3-5/16"	1-15/16"	1.273"	64.68
19646	.4040	Y	10.262	3-5/16"	1-15/16"	1.296"	65.13
19651	.4062	13/32"	10.317	3-5/16"	1-15/16"	1.303"	67.11
19656	.4130	Z	10.490	3-3/8"	2"	1.325"	67.74
19661	.4134		10.500	86	51	34	67.74
19666	.4219	27/64"	10.716	3-3/8"	2"	1.353"	68.38
19671	.4331		11.000	87	52	35	73.46
19676	.4375	7/16"	11.113	3-7/16"	2-1/16"	1.403"	73.46
19681	.4528		11.500	91	54	37	78.87
19686	.4531	29/64"	11.509	3-9/16"	2-1/8"	1.453"	78.87
19691	.4688	15/32"	11.908	3-5/8"	2-1/8"	1.503"	82.87
19696	.4724		12.000	94	56	38	83.15
19701	.4844	31/64"	12.304	3-11/16"	2-3/16"	1.554"	83.71
19706	.4921		12.500	95	56	40	84.56
19711	.5000	1/2"	12.700	3-3/4"	2-1/4"	1.604"	85.11
19716	.5118		13.000	107	60	42	112.71
19721	.5156	33/64"	13.096	4-1/4"	2-3/8"	1.654"	115.35
19726	.5312	17/32"	13.492	4-1/4"	2-3/8"	1.704"	118.00
19731	.5315		13.500	107	60	43	120.66
19736	.5469	35/64"	13.891	4-1/4"	2-3/8"	1.754"	123.30
19741	.5512		14.000	107	60	45	125.99
19746	.5625	9/16"	14.287	4-1/2"	2-1/2"	1.804"	136.15
19751	.5709		14.500	115	65	47	138.70
19756	.5781	37/64"	14.683	4-1/2"	2-1/2"	1.854"	141.25
19761	.5906		15.000	115	65	48	143.85
19766	.5938	19/32"	15.082	4-1/2"	2-1/2"	1.904"	144.60
19771	.6094	39/64"	15.478	4-1/2"	2-1/2"	1.954"	145.34
19776	.6102		15.500	115	65	50	146.08
19781	.6250	5/8"	15.875	4-1/2"	2-1/2"	2.004"	146.83
19786	.6299		16.000	115	65	51	150.39