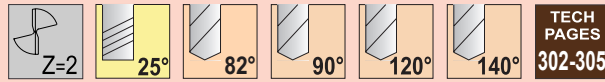


Series 1600

NEW ITEMS

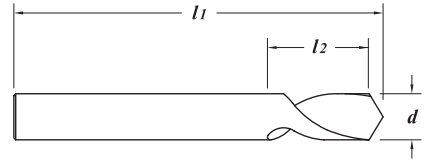
.0787" - .3750"
(2.000mm - 9.525mm)



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

N/C Spotting

- Solid submicron grain carbide drill
- For spotting to stabilize long drills
- Can be used for chamfering
- Rough, angled or spherical surfaces
- No O.D. clearance
- For locating on true position
- Live tooling recommended on lathe processes



	82° EDP#	90° EDP#	120° EDP#	140° EDP#	<i>d</i> † Diameter		<i>l1</i> Overall Length	<i>l2</i> Flute Length	1-11	12-24	25-49	50-100
					Decimal	Metric						
	91650	91500	91572	91240	.0787	2.000	50	10	9.90	9.47	9.04	8.61
	91652	91505	91575	91245	.0938	3/32"	2"	3/8"	11.21	10.73	10.24	9.75
NEW	-	91507	-	-	.1181	3.000	38	6	12.37	11.83	11.29	10.76
	-	91510	91580	91250	.1181	3.000	50	10	13.21	12.64	12.06	11.49
NEW	-	91512	-	-	.1181	3.000	75	10	15.33	14.66	14.00	13.33
NEW	-	91514	-	-	.1250	1/8"	1-1/2"	1/4"	12.37	11.83	11.29	10.76
	91656	91000	91100	91260	.1250	1/8"	2"	3/8"	13.21	12.64	12.06	11.49
NEW	-	91002	-	-	.1250	1/8"	3"	3/8"	15.33	14.66	14.00	13.33
	91658	91520	91590	91270	.1575	4.000	50	12	15.26	14.60	13.93	13.27
NEW	-	91522	-	-	.1875	3/16"	2"	3/8"	15.26	14.60	13.93	13.27
NEW	-	91524	-	-	.1875	3/16"	2-1/2"	1/2"	15.80	15.11	14.43	13.74
	91660	91010	91110	91280	.1875	3/16"	3"	3/4"	17.28	16.53	15.78	15.03
NEW	-	91012	-	-	.1875	3/16"	4"	3/4"	20.22	19.34	18.46	17.58
NEW	-	91014	-	-	.1969	5.000	50	10	16.59	15.87	15.15	14.43
	-	91530	91600	91290	.1969	5.000	65	15	18.16	17.37	16.58	15.79
NEW	-	91532	-	-	.1969	5.000	75	15	19.56	18.71	17.86	17.01
NEW	-	91534	-	-	.2362	6.000	50	12	18.65	17.84	17.03	16.22
	91664	91540	91610	91300	.2362	6.000	65	20	19.09	18.26	17.43	16.60
NEW	-	91542	-	-	.2362	6.000	75	20	20.52	19.63	18.74	17.84
NEW	-	91544	-	-	.2362	6.000	100	20	23.95	22.91	21.87	20.83
NEW	-	91546	-	-	.2500	1/4"	2"	1/2"	18.65	17.84	17.03	16.22
NEW	-	91547	-	-	.2500	1/4"	2-1/2"	5/8"	19.09	18.26	17.43	16.60
	91666	91020	91120	91310	.2500	1/4"	3"	3/4"	20.52	19.62	18.73	17.84
NEW	-	91021	-	-	.2500	1/4"	4"	3/4"	23.95	22.91	21.87	20.83
NEW	-	91022	-	-	.2500	1/4"	6"	3/4"	35.44	33.90	32.36	30.82
NEW	-	91023	-	-	.3125	5/16"	2"	1/2"	22.60	21.62	20.63	19.65
NEW	-	91024	-	-	.3125	5/16"	2-1/2"	5/8"	23.15	22.14	21.14	20.13
	91668	91025	91125	91315	.3125	5/16"	3"	1"	24.82	23.74	22.66	21.58
NEW	-	91026	-	-	.3125	5/16"	4"	1"	29.54	28.26	26.97	25.69
NEW	-	91548	-	-	.3150	8.000	50	12	22.60	21.62	20.63	19.65
NEW	-	91549	-	-	.3150	8.000	65	16	23.15	22.14	21.14	20.13
	91670	91550	91620	91320	.3150	8.000	75	25	24.82	23.74	22.66	21.58
NEW	-	91551	-	-	.3150	8.000	100	25	29.54	28.26	26.97	25.69
NEW	-	91028	-	-	.3750	3/8"	2"	1/2"	24.18	23.13	22.08	21.03
NEW	-	91029	-	-	.3750	3/8"	2-1/2"	5/8"	25.07	23.98	22.89	21.80
	91672	91030	91130	91330	.3750	3/8"	3"	1"	26.91	25.74	24.57	23.40
NEW	-	91031	-	-	.3750	3/8"	4"	1"	32.95	31.52	30.08	28.65
NEW	-	91032	-	-	.3750	3/8"	6"	1"	47.94	45.86	43.77	41.69

	82° EDP#	90° EDP#	120° EDP#	140° EDP#	d^+ Diameter		l_1 Overall Length	l_2 Flute Length	1-11	12-24	25-49	50-100	
					Decimal	Metric							
NEW	-	91558	-	-	.3937	10.000	65	16	32.04	30.65	29.25	27.86	
NEW	-	91559	-	-	.3937	10.000	70	20	32.89	31.46	30.03	28.60	
	-	91560	91630	91340	.3937	10.000	88	25	37.13	35.52	33.90	32.29	
NEW	-	91561	-	-	.3937	10.000	100	25	40.34	38.59	36.83	35.08	
NEW	-	91564	-	-	.4375	7/16"	11.113	2-3/4"	3/4"	35.54	33.99	32.45	30.90
	91676	91565	91635	91345	.4375	7/16"	11.113	4"	1"	41.46	39.66	37.85	36.05
NEW	-	91568	-	-	.4724		12.000	65	16	37.86	36.21	34.57	32.92
NEW	-	91569	-	-	.4724		12.000	75	20	38.54	36.86	35.19	33.51
	-	91570	91640	91350	.4724		12.000	100	30	44.63	42.69	40.75	38.81
NEW	-	91038	-	-	.5000	1/2"	12.700	2-1/2"	5/8"	39.07	37.37	35.37	33.97
NEW	-	91039	-	-	.5000	1/2"	12.700	3"	3/4"	39.64	37.92	36.19	34.47
	91680	91040	91140	91360	.5000	1/2"	12.700	4"	1"	46.41	44.40	42.38	40.36
NEW	-	91041	-	-	.5000	1/2"	12.700	6"	1"	70.14	67.09	64.04	60.99
	-	91050	91170	91370	.5512		14.000	100	30	79.98	76.51	73.03	69.55
	91684	91060	91180	-	.5625	9/16"	14.287	4"	1"	87.22	83.42	79.63	75.84
NEW	-	91067	-	-	.6250	5/8"	15.875	3"	3/4"	83.34	79.72	76.09	72.47
NEW	-	91068	-	-	.6250	5/8"	15.875	3-1/2"	1"	83.92	80.27	76.62	72.97
NEW	-	91069	-	-	.6250	5/8"	15.875	4"	1"	92.45	88.43	84.41	80.39
	91686	91070	91190	91390	.6250	5/8"	15.875	5"	1"	107.01	102.36	97.70	93.05
NEW	-	91077	-	-	.6299		16.000	75	20	86.04	82.30	78.56	74.82
NEW	-	91078	-	-	.6299		16.000	88	25	86.68	82.91	79.14	75.37
NEW	-	91079	-	-	.6299		16.000	100	25	94.46	90.35	86.25	82.14
	91688	91080	91200	91400	.6299		16.000	125	30	109.87	105.09	100.32	95.54
	91690	91090	91210	-	.7087		18.000	125	30	150.72	144.17	137.61	131.06
NEW	-	91148	-	-	.7500	3/4"	19.050	3"	3/4"	126.36	120.87	115.37	109.88
NEW	-	91149	-	-	.7500	3/4"	19.050	4"	1"	130.82	125.13	119.44	113.76
	91692	91150	91220	91420	.7500	3/4"	19.050	5"	1"	154.81	148.08	141.35	134.62
NEW	-	91159	-	-	.7874		20.000	100	25	146.18	139.82	133.47	127.11
	-	91160	91230	91430	.7874		20.000	125	30	167.61	160.33	153.04	145.75
NEW	-	91161	-	-	.7874		20.000	150	30	185.08	177.03	168.99	160.94