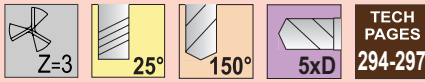


Series 1100H

.1094" - .2165"
(2.779mm - 5.500mm)

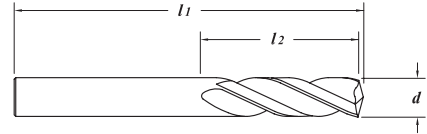


TOLERANCES		
d	+.0000" - .0005" (+.0000 - .0127mm)	
l_1	$\leq 1/8"$	+.125" - .062" (+3.175 - 1.588mm)
	$> 1/8"$	+.125" - .125" (+3.175 - 3.175mm)
l_2	$\leq 1/8"$	+.125" - .062" (+3.175 - 1.588mm)
	$> 1/8"$	+.125" - .125" (+3.175 - 3.175mm)

Recommended for cast iron, tungsten, and materials with high silicon content

Hardlube Coating

- Solid submicron grain carbide drill
- Self-centering drill point
- Near reamer finishes
- Can be used as a core drill
- Excellent heat resistance and lubricity
- Tighter tolerance holes
- Improved roundness and straightness
- Live tooling recommended on lathe processes
- Uncoated - page 83



EDP#	d † Diameter		l_1 Overall Length	l_2 Flute Length	1-11	12-24	25-49	50-100	
	Decimal	Metric							
90276	.1094	7/64"	2.779	2-1/4"	1-1/4"	14.55	13.92	13.28	12.65
90281	.1100	#35	2.794	2-1/4"	1-1/4"	14.70	14.06	13.42	12.78
90291	.1130	#33	2.870	2-1/4"	1-1/4"	15.08	14.42	13.77	13.11
90296	.1160	#32	2.946	2-1/4"	1-1/4"	15.23	14.56	13.90	13.24
90301	.1181		3.000	57	32	15.35	14.69	14.02	13.35
90306	.1200	#31	3.048	2-1/4"	1-1/4"	15.46	14.78	14.11	13.44
90311	.1250	1/8"	3.175	2-1/4"	1-1/4"	15.61	14.93	14.25	13.57
90316	.1285	#30	3.264	2-1/4"	1-1/4"	15.95	15.26	14.56	13.87
90321	.1360	#29	3.454	2-1/2"	1-3/8"	16.41	15.70	14.98	14.27
90326	.1378		3.500	63	35	16.86	16.13	15.39	14.66
90331	.1405	#28	3.569	2-1/2"	1-3/8"	17.04	16.30	15.56	14.82
90336	.1406	9/64"	3.571	2-1/2"	1-3/8"	17.19	16.45	15.70	14.95
90341	.1440	#27	3.658	2-1/2"	1-3/8"	17.81	17.04	16.26	15.49
90346	.1470	#26	3.734	2-1/2"	1-3/8"	18.01	17.23	16.44	15.66
90351	.1495	#25	3.797	2-1/2"	1-3/8"	18.17	17.38	16.59	15.80
90356	.1520	#24	3.861	2-1/2"	1-3/8"	18.19	17.40	16.61	15.82
90361	.1540	#23	3.912	2-1/2"	1-3/8"	18.34	17.55	16.75	15.95
90366	.1562	5/32"	3.967	2-1/2"	1-3/8"	18.42	17.62	16.82	16.02
90371	.1570	#22	3.988	2-1/2"	1-3/8"	19.47	18.62	17.78	16.93
90376	.1575		4.000	63	35	19.47	18.62	17.78	16.93
90381	.1590	#21	4.039	2-1/2"	1-3/8"	19.90	19.03	18.17	17.30
90386	.1610	#20	4.089	2-1/2"	1-3/8"	19.90	19.03	18.17	17.30
90391	.1660	#19	4.216	2-3/4"	1-5/8"	20.02	19.15	18.28	17.41
90396	.1695	#18	4.305	2-3/4"	1-5/8"	20.14	19.26	18.39	17.51
90401	.1719	11/64"	4.366	2-3/4"	1-5/8"	20.25	19.37	18.49	17.61
90406	.1730	#17	4.394	2-3/4"	1-5/8"	21.08	20.16	19.25	18.33
90411	.1770	#16	4.496	2-3/4"	1-5/8"	21.31	20.38	19.46	18.53
90416	.1772		4.500	70	41	21.40	20.47	19.54	18.61
90421	.1800	#15	4.572	2-3/4"	1-5/8"	21.51	20.57	19.64	18.70
90426	.1820	#14	4.623	2-3/4"	1-5/8"	21.94	20.99	20.03	19.08
90431	.1850	#13	4.700	2-3/4"	1-5/8"	22.03	21.08	20.12	19.16
90436	.1875	3/16"	4.763	2-3/4"	1-5/8"	22.03	21.08	20.12	19.16
90441	.1890	#12	4.801	2-3/4"	1-5/8"	23.58	22.55	21.53	20.50
90446	.1910	#11	4.851	2-3/4"	1-5/8"	23.79	22.76	21.72	20.69
90451	.1935	#10	4.915	2-3/4"	1-5/8"	24.77	23.69	22.62	21.54
90456	.1960	#9	4.978	3"	1-3/4"	25.30	24.20	23.10	22.00
90461	.1969		5.000	76	44	25.42	24.31	23.21	22.10
90466	.1990	#8	5.055	3"	1-3/4"	25.58	24.46	23.35	22.24
90471	.2010	#7	5.105	3"	1-3/4"	26.25	25.11	23.97	22.83
90476	.2031	13/64"	5.159	3"	1-3/4"	27.12	25.94	24.76	23.58
90481	.2040	#6	5.182	3"	1-3/4"	27.27	26.08	24.90	23.71
90486	.2055	#5	5.220	3"	1-3/4"	27.38	26.19	25.00	23.81
90491	.2090	#4	5.309	3"	1-3/4"	27.80	26.59	25.38	24.17
90496	.2130	#3	5.410	3"	1-3/4"	28.22	26.99	25.77	24.54
90501	.2165		5.500	76	44	28.41	27.17	25.94	24.70

EDP#	d^{\dagger} Diameter		l_1 Overall Length	l_2 Flute Length	1-11	12-24	25-49	50-100	
	Decimal	Metric							
90506	.2188	7/32"	5.558	3"	1-3/4"	28.60	27.36	26.11	24.87
90511	.2210	#2	5.613	3"	1-3/4"	29.21	27.94	26.67	25.40
90516	.2280	#1	5.791	3"	1-3/4"	29.35	28.07	26.80	25.52
90521	.2340	A	5.944	3-1/4"	2"	29.76	28.47	27.17	25.88
90526	.2344	15/64"	5.954	3-1/4"	2"	29.85	28.56	27.26	25.96
90531	.2362		6.000	82	50	29.95	28.64	27.34	26.04
90536	.2380	B	6.045	3-1/4"	2"	30.05	28.74	27.44	26.13
90541	.2420	C	6.147	3-1/4"	2"	30.23	28.92	27.60	26.29
90546	.2460	D	6.248	3-1/4"	2"	30.44	29.12	27.79	26.47
90551	.2500	1/4" / E	6.350	3-1/4"	2"	30.61	29.28	27.95	26.62
90556	.2559		6.500	82	50	34.14	32.66	31.17	29.69
90561	.2570	F	6.528	3-1/4"	2"	34.71	33.20	31.69	30.18
90566	.2610	G	6.629	3-1/2"	2-1/8"	36.20	34.63	33.05	31.48
90571	.2656	17/64"	6.746	3-1/2"	2-1/8"	36.79	35.19	33.59	31.99
90576	.2660	H	6.756	3-1/2"	2-1/8"	37.66	36.03	34.39	32.75
90581	.2720	I	6.909	3-1/2"	2-1/8"	38.07	36.41	34.76	33.10
90586	.2756		7.000	88	54	38.28	36.62	34.95	33.29
90591	.2770	J	7.036	3-1/2"	2-1/8"	38.58	36.91	35.23	33.55
90596	.2810	K	7.137	3-1/2"	2-1/8"	38.87	37.18	35.49	33.80
90601	.2812	9/32"	7.142	3-1/2"	2-1/8"	40.03	38.29	36.55	34.81
90606	.2900	L	7.366	3-1/2"	2-1/8"	41.29	39.49	37.70	35.90
90611	.2950	M	7.493	3-3/4"	2-3/8"	43.44	41.55	39.66	37.77
90616	.2953		7.500	95	60	43.44	41.55	39.66	37.77
90621	.2969	19/64"	7.541	3-3/4"	2-3/8"	43.44	41.55	39.66	37.77
90626	.3020	N	7.671	3-3/4"	2-3/8"	43.72	41.82	39.92	38.02
90631	.3125	5/16"	7.938	3-3/4"	2-3/8"	43.76	41.86	39.95	38.05
90636	.3150		8.000	95	60	46.49	44.47	42.45	40.43
90641	.3160	O	8.026	3-3/4"	2-3/8"	46.49	44.47	42.45	40.43
90646	.3230	P	8.204	3-3/4"	2-3/8"	46.49	44.47	42.45	40.43
90651	.3281	21/64"	8.334	4"	2-1/2"	48.37	46.27	44.16	42.06
90656	.3320	Q	8.433	4"	2-1/2"	49.36	47.21	45.07	42.92
90661	.3346		8.500	101	63	49.74	47.58	45.41	43.25
90666	.3390	R	8.611	4"	2-1/2"	51.11	48.88	46.66	44.44
90671	.3438	11/32"	8.733	4"	2-1/2"	52.93	50.63	48.33	46.03
90676	.3480	S	8.839	4"	2-1/2"	56.19	53.75	51.30	48.86
90681	.3543		9.000	101	63	56.51	54.05	51.60	49.14
90691	.3594	23/64"	9.129	4-1/4"	2-3/4"	58.86	56.30	53.74	51.18
90696	.3680	U	9.347	4-1/4"	2-3/4"	62.22	59.51	56.81	54.10
90701	.3740		9.500	107	70	63.12	60.38	57.63	54.89
90706	.3750	3/8"	9.525	4-1/4"	2-3/4"	63.12	60.38	57.63	54.89
90711	.3770	V	9.576	4-1/4"	2-3/4"	65.67	62.81	59.96	57.10
90716	.3860	W	9.804	4-1/2"	2-7/8"	69.26	66.25	63.24	60.23
90721	.3906	25/64"	9.921	4-1/2"	2-7/8"	70.13	67.08	64.03	60.98
90726	.3937		10.000	114	73	72.30	69.16	66.01	62.87
90736	.4040	Y	10.262	4-1/2"	2-7/8"	74.66	71.41	68.17	64.92
90741	.4062	13/32"	10.317	4-1/2"	2-7/8"	77.00	73.66	70.31	66.96
90746	.4130	Z	10.490	4-1/2"	2-7/8"	77.68	74.31	70.93	67.55
90751	.4134		10.500	114	73	77.68	74.31	70.93	67.55
90756	.4219	27/64"	10.716	4-1/2"	2-7/8"	78.46	75.05	71.64	68.23
90761	.4331		11.000	114	73	84.32	80.65	76.99	73.32
90766	.4375	7/16"	11.113	4-1/2"	2-7/8"	84.32	80.65	76.99	73.32
90771	.4528		11.500	120	76	90.65	86.71	82.77	78.83
90776	.4531	29/64"	11.509	4-3/4"	3"	90.65	86.71	82.77	78.83
90781	.4688	15/32"	11.908	4-3/4"	3"	95.32	91.18	87.03	82.89
90786	.4724		12.000	120	76	95.58	91.42	87.27	83.11
90791	.4844	31/64"	12.304	4-3/4"	3"	95.58	91.42	87.27	83.11
90796	.4921		12.500	120	76	97.87	93.61	89.36	85.10
90801	.5000	1/2"	12.700	4-3/4"	3"	97.87	93.61	89.36	85.10