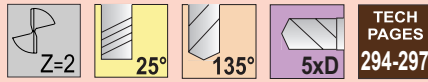


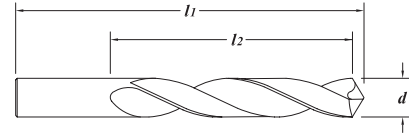
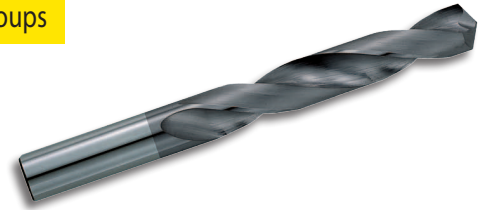
Series 1205H

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



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)

General purpose for all material groups



Hardlube Coating

- Solid submicron grain carbide drill
- Excellent heat resistance and lubricity
- No spotting required in most applications
- 4-flute self-centering point
- Adaptability when converting from high-speed steel
- Live tooling recommended on lathe processes
- Uncoated - page 71

EDP#	d † Diameter		l_1 Overall Length	l_2 Flute Length	1-11	12-24	25-49	50-100	
	Decimal	Metric							
89166	.0625	1/16"	1.588	1-3/4"	3/4"	8.71	8.33	7.95	7.57
89171	.0635	#52	1.613	1-3/4"	3/4"	8.82	8.44	8.05	7.67
89176	.0670	#51	1.702	1-3/4"	3/4"	8.92	8.54	8.15	7.76
89181	.0700	#50	1.778	1-3/4"	7/8"	9.07	8.68	8.28	7.89
89186	.0730	#49	1.854	1-3/4"	7/8"	9.28	8.88	8.47	8.07
89191	.0760	#48	1.930	1-3/4"	7/8"	9.51	9.10	8.68	8.27
89196	.0781	5/64"	1.984	1-3/4"	7/8"	9.81	9.38	8.96	8.53
89201	.0785	#47	1.994	1-3/4"	7/8"	10.07	9.64	9.20	8.76
89206	.0787		2.000	44	22	10.20	9.76	9.31	8.87
89211	.0810	#46	2.057	1-3/4"	7/8"	10.33	9.88	9.43	8.98
89216	.0820	#45	2.083	1-3/4"	7/8"	10.58	10.12	9.66	9.20
89221	.0860	#44	2.184	2"	1"	10.87	10.40	9.92	9.45
89226	.0890	#43	2.261	2"	1"	11.11	10.63	10.14	9.66
89231	.0935	#42	2.375	2"	1"	11.25	10.76	10.27	9.78
89236	.0938	3/32"	2.383	2"	1"	11.45	10.96	10.46	9.96
89241	.0960	#41	2.438	2"	1"	11.56	11.06	10.55	10.05
89246	.0980	#40	2.489	2"	1"	11.70	11.19	10.68	10.17
89251	.0984		2.500	57	32	11.72	11.21	10.70	10.19
89256	.0995	#39	2.527	2-1/4"	1-1/4"	11.78	11.26	10.75	10.24
89261	.1015	#38	2.578	2-1/4"	1-1/4"	11.91	11.40	10.88	10.36
89266	.1040	#37	2.642	2-1/4"	1-1/4"	12.02	11.50	10.97	10.45
89271	.1065	#36	2.705	2-1/4"	1-1/4"	12.16	11.63	11.10	10.57
89276	.1094	7/64"	2.779	2-1/4"	1-1/4"	12.34	11.80	11.27	10.73
89281	.1100	#35	2.794	2-1/4"	1-1/4"	12.44	11.90	11.36	10.82
89286	.1110	#34	2.819	2-1/4"	1-1/4"	12.57	12.02	11.48	10.93
89291	.1130	#33	2.870	2-1/4"	1-1/4"	12.77	12.21	11.66	11.10
89296	.1160	#32	2.946	2-1/4"	1-1/4"	12.87	12.31	11.75	11.19
89301	.1181		3.000	57	32	12.98	12.42	11.85	11.29
89306	.1200	#31	3.048	2-1/4"	1-1/4"	13.08	12.51	11.94	11.37
89311	.1250	1/8"	3.175	2-1/4"	1-1/4"	13.19	12.62	12.04	11.47
89316	.1285	#30	3.264	2-1/4"	1-1/4"	13.49	12.90	12.32	11.73
89321	.1360	#29	3.454	2-1/2"	1-3/8"	13.85	13.24	12.64	12.04
89326	.1378		3.500	63	35	14.23	13.61	12.99	12.37
89331	.1405	#28	3.569	2-1/2"	1-3/8"	14.38	13.75	13.13	12.50
89336	.1406	9/64"	3.571	2-1/2"	1-3/8"	14.51	13.88	13.25	12.62
89341	.1440	#27	3.658	2-1/2"	1-3/8"	15.01	14.36	13.70	13.05
89346	.1470	#26	3.734	2-1/2"	1-3/8"	15.15	14.49	13.83	13.17
89351	.1495	#25	3.797	2-1/2"	1-3/8"	15.28	14.62	13.95	13.29
89356	.1520	#24	3.861	2-1/2"	1-3/8"	15.35	14.69	14.02	13.35
89361	.1540	#23	3.912	2-1/2"	1-3/8"	15.43	14.76	14.09	13.42
89366	.1562	5/32"	3.967	2-1/2"	1-3/8"	15.50	14.83	14.15	13.48
89371	.1570	#22	3.988	2-1/2"	1-3/8"	16.36	15.65	14.94	14.23
89376	.1575		4.000	63	35	16.55	15.83	15.11	14.39

EDP#	d^{\dagger} Diameter		l_1 Overall Length	l_2 Flute Length	1-11	12-24	25-49	50-100	
	Decimal	Metric							
89381	.1590	#21	4.039	2-1/2"	1-3/8"	16.73	16.01	15.28	14.55
89386	.1610	#20	4.089	2-1/2"	1-3/8"	16.84	16.10	15.37	14.64
89391	.1660	#19	4.216	2-3/4"	1-5/8"	17.45	16.69	15.93	15.17
89396	.1695	#18	4.305	2-3/4"	1-5/8"	17.62	16.85	16.09	15.32
89401	.1719	11/64"	4.366	2-3/4"	1-5/8"	17.93	17.15	16.37	15.59
89406	.1730	#17	4.394	2-3/4"	1-5/8"	18.19	17.40	16.61	15.82
89411	.1770	#16	4.496	2-3/4"	1-5/8"	18.34	17.55	16.75	15.95
89416	.1772		4.500	70	41	18.45	17.64	16.84	16.04
89421	.1800	#15	4.572	2-3/4"	1-5/8"	18.52	17.71	16.91	16.10
89426	.1820	#14	4.623	2-3/4"	1-5/8"	18.88	18.06	17.24	16.42
89431	.1850	#13	4.700	2-3/4"	1-5/8"	19.02	18.19	17.37	16.54
89436	.1875	3/16"	4.763	2-3/4"	1-5/8"	19.10	18.27	17.44	16.61
89441	.1890	#12	4.801	2-3/4"	1-5/8"	21.05	20.13	19.22	18.30
89446	.1910	#11	4.851	2-3/4"	1-5/8"	21.24	20.32	19.39	18.47
89451	.1935	#10	4.915	2-3/4"	1-5/8"	22.07	21.11	20.15	19.19
89456	.1960	#9	4.978	3"	1-3/4"	22.56	21.58	20.60	19.62
89461	.1969		5.000	76	44	22.67	21.68	20.70	19.71
89466	.1990	#8	5.055	3"	1-3/4"	22.77	21.78	20.79	19.80
89471	.2010	#7	5.105	3"	1-3/4"	23.37	22.35	21.34	20.32
89476	.2031	13/64"	5.159	3"	1-3/4"	23.52	22.50	21.47	20.45
89481	.2040	#6	5.182	3"	1-3/4"	23.94	22.90	21.86	20.82
89486	.2055	#5	5.220	3"	1-3/4"	24.36	23.30	22.24	21.18
89491	.2090	#4	5.309	3"	1-3/4"	24.75	23.67	22.60	21.52
89496	.2130	#3	5.410	3"	1-3/4"	25.10	24.01	22.92	21.83
89501	.2165		5.500	76	44	25.27	24.17	23.07	21.97
89506	.2188	7/32"	5.558	3"	1-3/4"	25.42	24.31	23.21	22.10
89511	.2210	#2	5.613	3"	1-3/4"	25.94	24.82	23.69	22.56
89516	.2280	#1	5.791	3"	1-3/4"	26.11	24.97	23.84	22.70
89521	.2340	A	5.944	3-1/4"	2"	26.47	25.32	24.17	23.02
89526	.2344	15/64"	5.954	3-1/4"	2"	26.55	25.40	24.24	23.09
89531	.2362		6.000	82	50	26.63	25.48	24.32	23.16
89536	.2380	B	6.045	3-1/4"	2"	26.71	25.55	24.39	23.23
89541	.2420	C	6.147	3-1/4"	2"	26.89	25.72	24.55	23.38
89546	.2460	D	6.248	3-1/4"	2"	27.07	25.89	24.72	23.54
89551	.2500	1/4" / E	6.350	3-1/4"	2"	27.22	26.04	24.85	23.67
89556	.2559		6.500	82	50	30.65	29.32	27.98	26.65
89561	.2570	F	6.528	3-1/4"	2"	31.18	29.82	28.47	27.11
89566	.2610	G	6.629	3-1/2"	2-1/8"	31.65	30.27	28.90	27.52
89571	.2656	17/64"	6.746	3-1/2"	2-1/8"	32.18	30.78	29.38	27.98
89576	.2660	H	6.756	3-1/2"	2-1/8"	32.91	31.48	30.05	28.62
89581	.2720	I	6.909	3-1/2"	2-1/8"	33.22	31.78	30.33	28.89
89586	.2756		7.000	88	54	33.43	31.98	30.52	29.07
89591	.2770	J	7.036	3-1/2"	2-1/8"	33.67	32.21	30.74	29.28
89596	.2810	K	7.137	3-1/2"	2-1/8"	33.93	32.45	30.98	29.50
89601	.2812	9/32"	7.142	3-1/2"	2-1/8"	34.06	32.58	31.10	29.62
89606	.2900	L	7.366	3-1/2"	2-1/8"	35.10	33.57	32.05	30.52
89611	.2950	M	7.493	3-3/4"	2-3/8"	37.11	35.50	33.88	32.27
89616	.2953		7.500	95	60	37.11	35.50	33.88	32.27
89621	.2969	19/64"	7.541	3-3/4"	2-3/8"	37.11	35.50	33.88	32.27
89626	.3020	N	7.671	3-3/4"	2-3/8"	38.95	37.26	35.56	33.87
89631	.3125	5/16"	7.938	3-3/4"	2-3/8"	39.09	37.39	35.69	33.99
89636	.3150		8.000	95	60	41.46	39.66	37.85	36.05
89641	.3160	O	8.026	3-3/4"	2-3/8"	41.46	39.66	37.85	36.05
89646	.3230	P	8.204	3-3/4"	2-3/8"	41.46	39.66	37.85	36.05
89651	.3281	21/64"	8.334	4"	2-1/2"	41.98	40.15	38.33	36.50
89656	.3320	Q	8.433	4"	2-1/2"	42.83	40.96	39.10	37.24
89661	.3346		8.500	101	63	43.13	41.25	39.38	37.50

continued →

Series 1205H (continued)

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

DRILLS

EDP#	d^{\dagger} Diameter		l_1 Overall Length	l_2 Flute Length	1-11	12-24	25-49	50-100	
	Decimal	Metric							
89666	.3390	R	8.611	4"	2-1/2"	44.31	42.38	40.46	38.53
89671	.3438	11/32"	8.733	4"	2-1/2"	45.86	43.87	41.87	39.88
89676	.3480	S	8.839	4"	2-1/2"	47.68	45.61	43.53	41.46
89681	.3543		9.000	101	63	47.94	45.86	43.77	41.69
89686	.3580	T	9.093	4-1/4"	2-3/4"	49.84	47.67	45.51	43.34
89691	.3594	23/64"	9.129	4-1/4"	2-3/4"	50.15	47.97	45.79	43.61
89696	.3680	U	9.347	4-1/4"	2-3/4"	55.64	53.22	50.80	48.38
89701	.3740		9.500	107	70	56.04	53.60	51.17	48.73
89706	.3750	3/8"	9.525	4-1/4"	2-3/4"	56.42	53.97	51.51	49.06
89711	.3770	V	9.576	4-1/4"	2-3/4"	57.80	55.29	52.77	50.26
89716	.3860	W	9.804	4-1/2"	2-7/8"	58.82	56.27	53.71	51.15
89721	.3906	25/64"	9.921	4-1/2"	2-7/8"	59.54	56.95	54.36	51.77
89726	.3937		10.000	114	73	61.33	58.66	56.00	53.33
89731	.3970	X	10.084	4-1/2"	2-7/8"	62.82	60.09	57.36	54.63
89736	.4040	Y	10.262	4-1/2"	2-7/8"	63.25	60.50	57.75	55.00
89741	.4062	13/32"	10.317	4-1/2"	2-7/8"	65.18	62.35	59.51	56.68
89746	.4130	Z	10.490	4-1/2"	2-7/8"	65.78	62.92	60.06	57.20
89751	.4134		10.500	114	73	65.78	62.92	60.06	57.20
89756	.4219	27/64"	10.716	4-1/2"	2-7/8"	66.39	63.50	60.62	57.73
89761	.4331		11.000	114	73	71.22	68.12	65.03	61.93
89766	.4375	7/16"	11.113	4-1/2"	2-7/8"	71.22	68.12	65.03	61.93
89771	.4528		11.500	120	76	76.42	73.10	69.77	66.45
89776	.4531	29/64"	11.509	4-3/4"	3"	76.42	73.10	69.77	66.45
89781	.4688	15/32"	11.908	4-3/4"	3"	80.25	76.76	73.27	69.78
89786	.4724		12.000	120	76	80.49	76.99	73.49	69.99
89791	.4844	31/64"	12.304	4-3/4"	3"	80.49	76.99	73.49	69.99
89796	.4921		12.500	120	76	82.36	78.78	75.20	71.62
89801	.5000	1/2"	12.700	4-3/4"	3"	82.36	78.78	75.20	71.62
89806	.5118		13.000	127	83	103.65	99.14	94.64	90.13
89811	.5156	33/64"	13.096	5"	3-1/4"	106.09	101.48	96.86	92.25
89816	.5312	17/32"	13.492	5"	3-1/4"	108.53	103.81	99.09	94.37
89821	.5315		13.500	127	83	110.96	106.14	101.31	96.49
89826	.5469	35/64"	13.891	5"	3-1/4"	113.39	108.46	103.53	98.60
89831	.5512		14.000	127	83	115.85	110.81	105.78	100.74
89836	.5625	9/16"	14.287	5"	3-1/4"	125.18	119.74	114.29	108.85
89841	.5709		14.500	127	83	127.51	121.97	116.42	110.88
89846	.5781	37/64"	14.683	5-1/4"	3-1/2"	129.87	124.22	118.58	112.93
89851	.5906		15.000	133	89	132.24	126.49	120.74	114.99
89856	.5938	19/32"	15.082	5-1/4"	3-1/2"	132.95	127.17	121.39	115.61
89861	.6094	39/64"	15.478	5-1/4"	3-1/2"	133.61	127.80	121.99	116.18
89866	.6102		15.500	133	89	134.30	128.46	122.62	116.78
89871	.6250	5/8"	15.875	5-1/4"	3-1/2"	134.98	129.11	123.24	117.37
89876	.6299		16.000	133	89	138.23	132.22	126.21	120.20