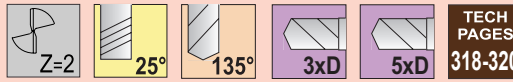


TOLERANCES

<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)

**NEW
ITEMS**

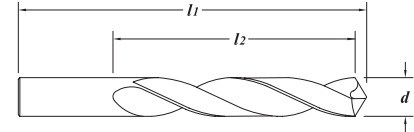
Series 1520, 1205



.0625" - .1015"
(1.588mm - 2.578mm)

General purpose for all material groups

- Solid submicron grain carbide drill
- No spotting required in most applications
- 4-facet self-centering point
- Live tooling recommended on lathe processes
- Hardlube Coating - page 73



**GENERAL PURPOSE
DRILLS**

3xD (1520) EDP#	5xD (1205) 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							
77165		.0625	1/16"	1.588	1-3/4"	5/8"	7.13	6.82	6.51	6.20
	89165	.0625	1/16"	1.588	1-3/4"	3/4"	7.13	6.82	6.51	6.20
77170		.0635	#52	1.613	1-3/4"	11/16"	7.23	6.92	6.60	6.29
	89170	.0635	#52	1.613	1-3/4"	3/4"	7.23	6.92	6.60	6.29
77175		.0670	#51	1.702	1-3/4"	11/16"	7.34	7.02	6.70	6.38
	89175	.0670	#51	1.702	1-3/4"	3/4"	7.34	7.02	6.70	6.38
77180		.0700	#50	1.778	1-3/4"	11/16"	7.52	7.19	6.87	6.54
	89180	.0700	#50	1.778	1-3/4"	7/8"	7.52	7.19	6.87	6.54
77185		.0730	#49	1.854	1-3/4"	11/16"	7.72	7.38	7.05	6.71
	89185	.0730	#49	1.854	1-3/4"	7/8"	7.72	7.38	7.05	6.71
77190		.0760	#48	1.930	1-3/4"	11/16"	7.97	7.62	7.28	6.93
	89190	.0760	#48	1.930	1-3/4"	7/8"	7.97	7.62	7.28	6.93
77195		.0781	5/64"	1.984	1-3/4"	11/16"	8.27	7.91	7.55	7.19
	89195	.0781	5/64"	1.984	1-3/4"	7/8"	8.27	7.91	7.55	7.19
77200		.0785	#47	1.994	1-3/4"	3/4"	8.54	8.17	7.80	7.43
	89200	.0785	#47	1.994	1-3/4"	7/8"	8.54	8.17	7.80	7.43
77205		.0787		2.000	44	19	8.68	8.31	7.93	7.55
	89205	.0787		2.000	44	22	8.68	8.31	7.93	7.55
77210		.0810	#46	2.057	1-3/4"	3/4"	8.82	8.44	8.05	7.67
	89210	.0810	#46	2.057	1-3/4"	7/8"	8.82	8.44	8.05	7.67
77215		.0820	#45	2.083	1-3/4"	3/4"	9.09	8.69	8.30	7.90
	89215	.0820	#45	2.083	1-3/4"	7/8"	9.09	8.69	8.30	7.90
77220		.0860	#44	2.184	1-3/4"	3/4"	9.38	8.98	8.57	8.16
	89220	.0860	#44	2.184	2"	1"	9.38	8.98	8.57	8.16
77225		.0890	#43	2.261	1-3/4"	3/4"	9.65	9.23	8.81	8.39
	89225	.0890	#43	2.261	2"	1"	9.65	9.23	8.81	8.39
77230		.0935	#42	2.375	1-3/4"	3/4"	9.79	9.36	8.94	8.51
	89230	.0935	#42	2.375	2"	1"	9.79	9.36	8.94	8.51
77235		.0938	3/32"	2.383	1-3/4"	3/4"	10.01	9.57	9.14	8.70
	89235	.0938	3/32"	2.383	2"	1"	10.01	9.57	9.14	8.70
77240		.0960	#41	2.438	1-13/16"	13/16"	10.10	9.66	9.22	8.78
	89240	.0960	#41	2.438	2"	1"	10.10	9.66	9.22	8.78
77245		.0980	#40	2.489	1-13/16"	13/16"	10.25	9.80	9.36	8.91
	89245	.0980	#40	2.489	2"	1"	10.25	9.80	9.36	8.91
77250		.0984		2.500	46	21	10.30	9.86	9.41	8.96
	89250	.0984		2.500	57	32	10.30	9.86	9.41	8.96
77255		.0995	#39	2.527	1-13/16"	13/16"	10.35	9.90	9.45	9.00
	89255	.0995	#39	2.527	2-1/4"	1-1/4"	10.35	9.90	9.45	9.00
77260		.1015	#38	2.578	1-13/16"	13/16"	10.44	9.99	9.53	9.08
	89260	.1015	#38	2.578	2-1/4"	1-1/4"	10.48	10.02	9.57	9.11

continued →

Series 1520, 1205 (continued)

.1040" - .1719"
(2.642mm - 4.366mm)

3xD (1520) EDP#	5xD (1205) EDP#	d^+ Diameter		l_1 Overall Length	l_2 Flute Length	1-11	12-24	25-49	50-100	
		Decimal	Metric							
77265		.1040	#37	2.642	1-13/16"	13/16"	10.52	10.07	9.61	9.15
	89265	.1040	#37	2.642	2-1/4"	1-1/4"	10.61	10.15	9.69	9.23
77270		.1065	#36	2.705	1-13/16"	13/16"	10.59	10.13	9.67	9.21
	89270	.1065	#36	2.705	2-1/4"	1-1/4"	10.75	10.29	9.82	9.35
77275		.1094	7/64"	2.779	1-13/16"	13/16"	10.66	10.20	9.73	9.27
	89275	.1094	7/64"	2.779	2-1/4"	1-1/4"	10.93	10.45	9.98	9.50
77280		.1100	#35	2.794	1-7/8"	7/8"	10.73	10.26	9.80	9.33
	89280	.1100	#35	2.794	2-1/4"	1-1/4"	11.05	10.57	10.09	9.61
77285		.1110	#34	2.819	1-7/8"	7/8"	10.86	10.38	9.91	9.44
	89285	.1110	#34	2.819	2-1/4"	1-1/4"	11.18	10.69	10.21	9.72
77290		.1130	#33	2.870	1-7/8"	7/8"	10.93	10.45	9.98	9.50
	89290	.1130	#33	2.870	2-1/4"	1-1/4"	11.39	10.89	10.40	9.90
77295		.1160	#32	2.946	1-7/8"	7/8"	11.01	10.53	10.05	9.57
	89295	.1160	#32	2.946	2-1/4"	1-1/4"	11.51	11.01	10.51	10.01
77300		.1181		3.000	48	22	11.13	10.65	10.16	9.68
	89300	.1181		3.000	57	32	11.63	11.12	10.62	10.11
77305		.1200	#31	3.048	1-7/8"	7/8"	11.20	10.71	10.23	9.74
	89305	.1200	#31	3.048	2-1/4"	1-1/4"	11.70	11.19	10.68	10.17
77310		.1250	1/8"	3.175	1-7/8"	7/8"	11.33	10.84	10.34	9.85
	89310	.1250	1/8"	3.175	2-1/4"	1-1/4"	11.85	11.33	10.82	10.30
77315		.1285	#30	3.264	1-15/16"	15/16"	11.64	11.13	10.63	10.12
	89315	.1285	#30	3.264	2-1/4"	1-1/4"	12.14	11.62	11.09	10.56
77320		.1360	#29	3.454	1-15/16"	15/16"	11.94	11.42	10.90	10.38
	89320	.1360	#29	3.454	2-1/2"	1-3/8"	12.52	11.98	11.43	10.89
77325		.1378		3.500	49	24	12.33	11.79	11.26	10.72
	89325	.1378		3.500	63	35	12.94	12.38	11.81	11.25
77330		.1405	#28	3.569	1-15/16"	15/16"	12.50	11.96	11.41	10.87
	89330	.1405	#28	3.569	2-1/2"	1-3/8"	13.06	12.50	11.93	11.36
77335		.1406	9/64"	3.571	1-15/16"	15/16"	12.62	12.07	11.52	10.97
	89335	.1406	9/64"	3.571	2-1/2"	1-3/8"	13.21	12.64	12.06	11.49
77340		.1440	#27	3.658	2-1/16"	1"	13.73	13.13	12.54	11.94
	89340	.1440	#27	3.658	2-1/2"	1-3/8"	13.73	13.13	12.54	11.94
77345		.1470	#26	3.734	2-1/16"	1"	13.87	13.27	12.66	12.06
	89345	.1470	#26	3.734	2-1/2"	1-3/8"	13.87	13.27	12.66	12.06
77350		.1495	#25	3.797	2-1/16"	1"	14.05	13.44	12.83	12.22
	89350	.1495	#25	3.797	2-1/2"	1-3/8"	14.05	13.44	12.83	12.22
77355		.1520	#24	3.861	2-1/16"	1"	14.08	13.46	12.85	12.24
	89355	.1520	#24	3.861	2-1/2"	1-3/8"	14.08	13.46	12.85	12.24
77360		.1540	#23	3.912	2-1/16"	1"	14.18	13.56	12.95	12.33
	89360	.1540	#23	3.912	2-1/2"	1-3/8"	14.18	13.56	12.95	12.33
77365		.1562	5/32"	3.967	2-1/16"	1"	14.27	13.65	13.03	12.41
	89365	.1562	5/32"	3.967	2-1/2"	1-3/8"	14.27	13.65	13.03	12.41
77370		.1570	#22	3.988	2-1/8"	1-1/16"	15.17	14.51	13.85	13.19
	89370	.1570	#22	3.988	2-1/2"	1-3/8"	15.17	14.51	13.85	13.19
77375		.1575		4.000	54	27	15.36	14.70	14.03	13.36
	89375	.1575		4.000	63	35	15.36	14.70	14.03	13.36
77380		.1590	#21	4.039	2-1/8"	1-1/16"	15.54	14.86	14.19	13.51
	89380	.1590	#21	4.039	2-1/2"	1-3/8"	15.54	14.86	14.19	13.51
77385		.1610	#20	4.089	2-1/8"	1-1/16"	15.65	14.97	14.29	13.61
	89385	.1610	#20	4.089	2-1/2"	1-3/8"	15.65	14.97	14.29	13.61
77390		.1660	#19	4.216	2-1/8"	1-1/16"	16.28	15.58	14.87	14.16
	89390	.1660	#19	4.216	2-3/4"	1-5/8"	16.28	15.58	14.87	14.16
77395		.1695	#18	4.305	2-1/8"	1-1/16"	16.49	15.77	15.06	14.34
	89395	.1695	#18	4.305	2-3/4"	1-5/8"	16.49	15.77	15.06	14.34
77400		.1719	11/64"	4.366	2-1/8"	1-1/16"	16.84	16.10	15.37	14.64
	89400	.1719	11/64"	4.366	2-3/4"	1-5/8"	16.84	16.10	15.37	14.64

3xD (1520) EDP#	5xD (1205) EDP#	d^+ Diameter		l_1 Overall Length	l_2 Flute Length	1-11	12-24	25-49	50-100	
		Decimal	Metric							
77405		.1730	#17	4.394	2-3/16"	1-1/8"	17.07	16.32	15.58	14.84
	89405	.1730	#17	4.394	2-3/4"	1-5/8"	17.07	16.32	15.58	14.84
77410		.1770	#16	4.496	2-3/16"	1-1/8"	17.25	16.50	15.75	15.00
	89410	.1770	#16	4.496	2-3/4"	1-5/8"	17.25	16.50	15.75	15.00
77415		.1772		4.500	56	29	17.34	16.59	15.83	15.08
	89415	.1772		4.500	70	41	17.34	16.59	15.83	15.08
77420		.1800	#15	4.572	2-3/16"	1-1/8"	17.41	16.65	15.90	15.14
	89420	.1800	#15	4.572	2-3/4"	1-5/8"	17.41	16.65	15.90	15.14
77425		.1820	#14	4.623	2-3/16"	1-1/8"	17.81	17.04	16.26	15.49
	89425	.1820	#14	4.623	2-3/4"	1-5/8"	17.81	17.04	16.26	15.49
77430		.1850	#13	4.700	2-3/16"	1-1/8"	17.95	17.17	16.39	15.61
	89430	.1850	#13	4.700	2-3/4"	1-5/8"	17.95	17.17	16.39	15.61
77435		.1875	3/16"	4.763	2-3/16"	1-1/8"	18.03	17.25	16.46	15.68
	89435	.1875	3/16"	4.763	2-3/4"	1-5/8"	18.03	17.25	16.46	15.68
77440		.1890	#12	4.801	2-1/4"	1-3/16"	18.62	17.81	17.00	16.19
	89440	.1890	#12	4.801	2-3/4"	1-5/8"	18.62	17.81	17.00	16.19
77445		.1910	#11	4.851	2-1/4"	1-3/16"	18.83	18.01	17.19	16.37
	89445	.1910	#11	4.851	2-3/4"	1-5/8"	18.83	18.01	17.19	16.37
77450		.1935	#10	4.915	2-1/4"	1-3/16"	19.72	18.87	18.01	17.15
	89450	.1935	#10	4.915	2-3/4"	1-5/8"	19.72	18.87	18.01	17.15
77455		.1960	#9	4.978	2-1/4"	1-3/16"	20.22	19.34	18.46	17.58
	89455	.1960	#9	4.978	3"	1-3/4"	20.22	19.34	18.46	17.58
77460		.1969		5.000	57	30	20.33	19.45	18.56	17.68
	89460	.1969		5.000	76	44	20.33	19.45	18.56	17.68
77465		.1990	#8	5.055	2-1/4"	1-3/16"	20.47	19.58	18.69	17.80
	89465	.1990	#8	5.055	3"	1-3/4"	20.47	19.58	18.69	17.80
77470		.2010	#7	5.105	2-1/4"	1-3/16"	21.07	20.15	19.24	18.32
	89470	.2010	#7	5.105	3"	1-3/4"	21.07	20.15	19.24	18.32
77475		.2031	13/64"	5.159	2-1/4"	1-3/16"	21.23	20.31	19.38	18.46
	89475	.2031	13/64"	5.159	3"	1-3/4"	21.23	20.31	19.38	18.46
77480		.2040	#6	5.182	2-3/8"	1-1/4"	21.67	20.72	19.78	18.84
	89480	.2040	#6	5.182	3"	1-3/4"	21.67	20.72	19.78	18.84
77485		.2055	#5	5.220	2-3/8"	1-1/4"	22.11	21.15	20.19	19.23
	89485	.2055	#5	5.220	3"	1-3/4"	22.11	21.15	20.19	19.23
77490		.2090	#4	5.309	2-3/8"	1-1/4"	22.49	21.52	20.54	19.56
	89490	.2090	#4	5.309	3"	1-3/4"	22.49	21.52	20.54	19.56
77495		.2130	#3	5.410	2-3/8"	1-1/4"	22.89	21.89	20.90	19.90
	89495	.2130	#3	5.410	3"	1-3/4"	22.89	21.89	20.90	19.90
77500		.2165		5.500	60	32	23.07	22.07	21.06	20.06
	89500	.2165		5.500	76	44	23.07	22.07	21.06	20.06
77505		.2188	7/32"	5.558	2-3/8"	1-1/4"	23.23	22.22	21.21	20.20
	89505	.2188	7/32"	5.558	3"	1-3/4"	23.23	22.22	21.21	20.20
77510		.2210	#2	5.613	2-7/16"	1-5/16"	23.81	22.77	21.74	20.70
	89510	.2210	#2	5.613	3"	1-3/4"	23.81	22.77	21.74	20.70
77515		.2280	#1	5.791	2-7/16"	1-5/16"	23.94	22.90	21.86	20.82
	89515	.2280	#1	5.791	3"	1-3/4"	23.94	22.90	21.86	20.82
77520		.2340	A	5.944	2-7/16"	1-5/16"	23.99	22.95	21.90	20.86
	89520	.2340	A	5.944	3-1/4"	2"	24.22	23.17	22.11	21.06
77525		.2344	15/64"	5.954	2-7/16"	1-5/16"	24.06	23.01	21.97	20.92
	89525	.2344	15/64"	5.954	3-1/4"	2"	24.29	23.23	22.18	21.12
77530		.2362		6.000	64	35	24.14	23.09	22.04	20.99
	89530	.2362		6.000	82	50	24.38	23.32	22.26	21.20
77535		.2380	B	6.045	2-1/2"	1-3/8"	24.22	23.17	22.11	21.06
	89535	.2380	B	6.045	3-1/4"	2"	24.46	23.40	22.33	21.27
77540		.2420	C	6.147	2-1/2"	1-3/8"	24.40	23.34	22.28	21.22
	89540	.2420	C	6.147	3-1/4"	2"	24.64	23.57	22.50	21.43

continued →

Series 1520, 1205 (continued)

.2460" - .3543"
(6.248mm - 9.000mm)

3xD (1520) EDP#	5xD (1205) EDP#	d^{\dagger} Diameter		l_1 Overall Length	l_2 Flute Length	1-11	12-24	25-49	50-100	
		Decimal	Metric							
77545		.2460	D	6.248	2-1/2"	1-3/8"	24.59	23.52	22.45	21.38
	89545	.2460	D	6.248	3-1/4"	2"	24.83	23.75	22.67	21.59
77550		.2500	1/4" / E	6.350	2-1/2"	1-3/8"	24.76	23.68	22.61	21.53
	89550	.2500	1/4" / E	6.350	3-1/4"	2"	25.00	23.91	22.83	21.74
77555		.2559		6.500	67	37	25.35	24.24	23.14	22.04
	89555	.2559		6.500	82	50	25.61	24.50	23.38	22.27
77560		.2570	F	6.528	2-5/8"	1-7/16"	25.89	24.76	23.64	22.51
	89560	.2570	F	6.528	3-1/4"	2"	26.13	24.99	23.86	22.72
77565		.2610	G	6.629	2-5/8"	1-7/16"	26.38	25.23	24.09	22.94
	89565	.2610	G	6.629	3-1/2"	2-1/8"	26.67	25.51	24.35	23.19
77570		.2656	17/64"	6.746	2-5/8"	1-7/16"	26.94	25.77	24.60	23.43
	89570	.2656	17/64"	6.746	3-1/2"	2-1/8"	27.21	26.03	24.84	23.66
77575		.2660	H	6.756	2-11/16"	1-1/2"	27.70	26.50	25.29	24.09
	89575	.2660	H	6.756	3-1/2"	2-1/8"	27.99	26.77	25.56	24.34
77580		.2720	I	6.909	2-11/16"	1-1/2"	28.03	26.81	25.59	24.37
	89580	.2720	I	6.909	3-1/2"	2-1/8"	28.30	27.07	25.84	24.61
77585		.2756		7.000	68	38	28.24	27.02	25.79	24.56
	89585	.2756		7.000	88	54	28.53	27.29	26.05	24.81
77590		.2770	J	7.036	2-11/16"	1-1/2"	28.52	27.28	26.04	24.80
	89590	.2770	J	7.036	3-1/2"	2-1/8"	28.78	27.53	26.28	25.03
77595		.2810	K	7.137	2-11/16"	1-1/2"	28.77	27.52	26.27	25.02
	89595	.2810	K	7.137	3-1/2"	2-1/8"	29.04	27.78	26.51	25.25
77600		.2812	9/32"	7.142	2-11/16"	1-1/2"	28.91	27.65	26.40	25.14
	89600	.2812	9/32"	7.142	3-1/2"	2-1/8"	29.22	27.95	26.68	25.41
77605		.2900	L	7.366	2-3/4"	1-9/16"	29.98	28.68	27.37	26.07
	89605	.2900	L	7.366	3-1/2"	2-1/8"	30.27	28.95	27.64	26.32
77610		.2950	M	7.493	2-3/4"	1-9/16"	32.09	30.69	29.30	27.90
	89610	.2950	M	7.493	3-3/4"	2-3/8"	32.40	30.99	29.58	28.17
77615		.2953		7.500	70	40	32.09	30.69	29.30	27.90
	89615	.2953		7.500	95	60	32.40	30.99	29.58	28.17
77620		.2969	19/64"	7.541	2-3/4"	1-9/16"	32.25	30.84	29.44	28.04
	89620	.2969	19/64"	7.541	3-3/4"	2-3/8"	32.40	30.99	29.58	28.17
77625		.3020	N	7.671	2-15/16"	1-5/8"	33.98	32.51	31.03	29.55
	89625	.3020	N	7.671	3-3/4"	2-3/8"	34.33	32.84	31.34	29.85
77630		.3125	5/16"	7.938	2-15/16"	1-5/8"	34.10	32.62	31.13	29.65
	89630	.3125	5/16"	7.938	3-3/4"	2-3/8"	34.45	32.96	31.46	29.96
77635		.3150		8.000	75	43	36.57	34.98	33.39	31.80
	89635	.3150		8.000	95	60	36.96	35.35	33.75	32.14
77640		.3160	O	8.026	2-15/16"	1-11/16"	36.57	34.98	33.39	31.80
	89640	.3160	O	8.026	3-3/4"	2-3/8"	36.96	35.35	33.75	32.14
77645		.3230	P	8.204	2-15/16"	1-11/16"	36.90	35.30	33.69	32.09
	89645	.3230	P	8.204	3-3/4"	2-3/8"	36.96	35.35	33.75	32.14
77650		.3281	21/64"	8.334	2-15/16"	1-11/16"	37.13	35.52	33.90	32.29
	89650	.3281	21/64"	8.334	4"	2-1/2"	37.51	35.88	34.25	32.62
77655		.3320	Q	8.433	3"	1-11/16"	37.98	36.33	34.68	33.03
	89655	.3320	Q	8.433	4"	2-1/2"	38.39	36.72	35.05	33.38
77660		.3346		8.500	76	43	38.34	36.67	35.01	33.34
	89660	.3346		8.500	101	63	38.72	37.04	35.35	33.67
77665		.3390	R	8.611	3"	1-11/16"	39.56	37.84	36.12	34.40
	89665	.3390	R	8.611	4"	2-1/2"	39.97	38.24	36.50	34.76
77670		.3438	11/32"	8.733	3"	1-11/16"	41.18	39.39	37.60	35.81
	89670	.3438	11/32"	8.733	4"	2-1/2"	41.58	39.78	37.97	36.16
77675		.3480	S	8.839	3-1/16"	1-3/4"	41.73	39.92	38.10	36.29
	89675	.3480	S	8.839	4"	2-1/2"	41.73	39.92	38.10	36.29
77680		.3543		9.000	78	44	41.98	40.15	38.33	36.50
	89680	.3543		9.000	101	63	41.98	40.15	38.33	36.50

3xD (1520) EDP#	5xD (1205) EDP#	d^+ Diameter		l_1 Overall Length	l_2 Flute Length	1-11	12-24	25-49	50-100	
		Decimal	Metric							
77685		.3580	T	9.093	3-1/16"	1-3/4"	42.15	40.32	38.48	36.65
	89685	.3580	T	9.093	4-1/4"	2-3/4"	42.35	40.51	38.67	36.83
77690		.3594	23/64"	9.129	3-1/16"	1-3/4"	42.44	40.59	38.75	36.90
	89690	.3594	23/64"	9.129	4-1/4"	2-3/4"	42.65	40.80	38.94	37.09
77695		.3680	U	9.347	3-1/8"	1-13/16"	46.47	44.45	42.43	40.41
	89695	.3680	U	9.347	4-1/4"	2-3/4"	48.40	46.30	44.19	42.09
77700		.3740		9.500	79	46	46.91	44.87	42.83	40.79
	89700	.3740		9.500	107	70	48.85	46.73	44.60	42.48
77705		.3750	3/8"	9.525	3-1/8"	1-13/16"	47.28	45.22	43.17	41.11
	89705	.3750	3/8"	9.525	4-1/4"	2-3/4"	49.24	47.10	44.96	42.82
77710		.3770	V	9.576	3-1/4"	1-7/8"	48.16	46.07	43.97	41.88
	89710	.3770	V	9.576	4-1/4"	2-3/4"	50.17	47.99	45.81	43.63
77715		.3860	W	9.804	3-1/4"	1-7/8"	49.19	47.05	44.91	42.77
	89715	.3860	W	9.804	4-1/2"	2-7/8"	51.24	49.02	46.79	44.56
77720		.3906	25/64"	9.921	3-1/4"	1-7/8"	49.92	47.75	45.58	43.41
	89720	.3906	25/64"	9.921	4-1/2"	2-7/8"	52.00	49.74	47.48	45.22
77725		.3937		10.000	84	49	51.72	49.47	47.22	44.97
	89725	.3937		10.000	114	73	53.88	51.54	49.19	46.85
77730		.3970	X	10.084	3-5/16"	1-15/16"	53.22	50.91	48.59	46.28
	89730	.3970	X	10.084	4-1/2"	2-7/8"	55.46	53.05	50.64	48.23
	89735	.4040	Y	10.262	4-1/2"	2-7/8"	55.91	53.48	51.05	48.62
77740		.4062	13/32"	10.317	3-5/16"	1-15/16"	55.60	53.19	50.77	48.35
	89740	.4062	13/32"	10.317	4-1/2"	2-7/8"	57.93	55.41	52.89	50.37
77745		.4130	Z	10.490	3-3/8"	2"	56.21	53.77	51.32	48.88
	89745	.4130	Z	10.490	4-1/2"	2-7/8"	58.54	55.99	53.45	50.90
77750		.4134		10.500	86	51	56.21	53.77	51.32	48.88
	89750	.4134		10.500	114	73	58.54	55.99	53.45	50.90
77755		.4219	27/64"	10.716	3-3/8"	2"	56.81	54.34	51.87	49.40
	89755	.4219	27/64"	10.716	4-1/2"	2-7/8"	59.19	56.62	54.04	51.47
77760		.4331		11.000	87	52	61.69	59.00	56.32	53.64
	89760	.4331		11.000	114	73	64.27	61.48	58.68	55.89
77765		.4375	7/16"	11.113	3-7/16"	2-1/16"	61.69	59.00	56.32	53.64
	89765	.4375	7/16"	11.113	4-1/2"	2-7/8"	64.27	61.48	58.68	55.89
77770		.4528		11.500	91	54	66.93	64.02	61.11	58.20
	89770	.4528		11.500	120	76	69.72	66.69	63.66	60.63
77775		.4531	29/64"	11.509	3-9/16"	2-1/8"	66.93	64.02	61.11	58.20
	89775	.4531	29/64"	11.509	4-3/4"	3"	69.72	66.69	63.66	60.63
77780		.4688	15/32"	11.908	3-5/8"	2-1/8"	70.79	67.72	64.64	61.56
	89780	.4688	15/32"	11.908	4-3/4"	3"	73.75	70.54	67.34	64.13
77785		.4724		12.000	94	56	71.06	67.97	64.88	61.79
	89785	.4724		12.000	120	76	73.99	70.77	67.56	64.34
77790		.4844	31/64"	12.304	3-11/16"	2-3/16"	71.59	68.48	65.36	62.25
	89790	.4844	31/64"	12.304	4-3/4"	3"	73.99	70.77	67.56	64.34
77795		.4921		12.500	95	56	72.42	69.27	66.12	62.97
	89795	.4921		12.500	120	76	75.97	72.67	69.36	66.06
77800		.5000	1/2"	12.700	3-3/4"	2-1/4"	72.93	69.76	66.59	63.42
	89800	.5000	1/2"	12.700	4-3/4"	3"	75.97	72.67	69.36	66.06
NEW	77805	.5118		13.000	107	60	91.62	87.64	83.65	79.67
	89805	.5118		13.000	127	83	95.44	91.29	87.14	82.99
NEW	77810	.5156	33/64"	13.096	4-1/4"	2-3/8"	94.08	89.99	85.90	81.81
	89810	.5156	33/64"	13.096	5"	3-1/4"	98.00	93.74	89.48	85.22
NEW	77815	.5312	17/32"	13.492	4-1/4"	2-3/8"	96.53	92.33	88.14	83.94
	89815	.5312	17/32"	13.492	5"	3-1/4"	100.56	96.18	91.81	87.44
NEW	77820	.5315		13.500	107	60	98.99	94.69	90.38	86.08
	89820	.5315		13.500	127	83	103.12	98.64	94.15	89.67

continued →

Series 1520, 1205 (continued)

.5469" - .6299"
(13.891mm - 16.000mm)

	3xD (1520) EDP#	5xD (1205) EDP#	d^{\dagger} Diameter		l_1 Overall Length	l_2 Flute Length	1-11	12-24	25-49	50-100	
			Decimal	Metric							
NEW	77825		.5469	35/64"	13.891	4-1/4"	2-3/8"	101.45	97.04	92.63	88.22
		89825	.5469	35/64"	13.891	5"	3-1/4"	105.69	101.09	96.50	91.90
NEW	77830		.5512		14.000	107	60	103.91	99.39	94.87	90.36
		89830	.5512		14.000	127	83	108.25	103.54	98.84	94.13
NEW	77835		.5625	9/16"	14.287	4-1/2"	2-1/2"	113.32	108.39	103.47	98.54
		89835	.5625	9/16"	14.287	5"	3-1/4"	118.05	112.92	107.78	102.65
NEW	77840		.5709		14.500	115	65	115.69	110.66	105.63	100.60
		89840	.5709		14.500	127	83	120.51	115.27	110.03	104.79
NEW	77845		.5781	37/64"	14.683	4-1/2"	2-1/2"	118.05	112.92	107.78	102.65
		89845	.5781	37/64"	14.683	5-1/4"	3-1/2"	122.97	117.62	112.28	106.93
NEW	77850		.5906		15.000	115	65	120.46	115.22	109.98	104.75
		89850	.5906		15.000	133	89	125.48	120.02	114.57	109.11
NEW	77855		.5938	19/32"	15.082	4-1/2"	2-1/2"	121.15	115.88	110.61	105.35
		89855	.5938	19/32"	15.082	5-1/4"	3-1/2"	126.20	120.71	115.23	109.74
NEW	77860		.6094	39/64"	15.478	4-1/2"	2-1/2"	121.82	116.52	111.23	105.93
		89860	.6094	39/64"	15.478	5-1/4"	3-1/2"	126.89	121.37	115.86	110.34
NEW	77865		.6102		15.500	115	65	122.51	117.18	111.86	106.53
		89865	.6102		15.500	133	89	127.62	122.07	116.52	110.97
NEW	77870		.6250	5/8"	15.875	4-1/2"	2-1/2"	123.19	117.83	112.48	107.12
		89870	.6250	5/8"	15.875	5-1/4"	3-1/2"	128.32	122.74	117.16	111.58
NEW	77875		.6299		16.000	115	65	126.48	120.98	115.48	109.98
		89875	.6299		16.000	133	89	131.76	126.03	120.30	114.57



Drill and Reamer Manufacturing