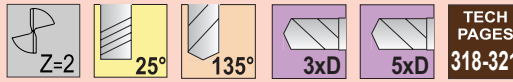


**TOLERANCES**

<i>d</i>	+.0000" -.0005" (+.0000 -.0127mm)	
<i>l<sub>1</sub></i>	≤ 1/8"	+.125" -.062" (+3.175 -1.588mm)
	> 1/8"	+.125" -.125" (+3.175 -3.175mm)
<i>l<sub>2</sub></i>	≤ 1/8"	+.125" -.062" (+3.175 -1.588mm)
	> 1/8"	+.125" -.125" (+3.175 -3.175mm)

**NEW ITEMS**

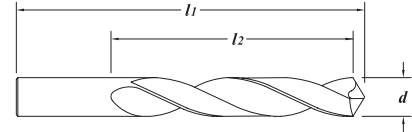
**Series 1520, 1205**



.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>l<sub>1</sub></i> Overall Length	<i>l<sub>2</sub></i> Flute Length	1-11	12-24	25-49	50-100	
		Decimal	Metric							
		.0625	1/16"	1.588	1-3/4"	5/8"	7.42	7.10	6.77	6.45
	89165	.0625	1/16"	1.588	1-3/4"	3/4"	7.42	7.10	6.77	6.45
77170		.0635	#52	1.613	1-3/4"	11/16"	7.52	7.19	6.87	6.54
	89170	.0635	#52	1.613	1-3/4"	3/4"	7.52	7.19	6.87	6.54
77175		.0670	#51	1.702	1-3/4"	11/16"	7.64	7.30	6.97	6.64
	89175	.0670	#51	1.702	1-3/4"	3/4"	7.64	7.30	6.97	6.64
77180		.0700	#50	1.778	1-3/4"	11/16"	7.82	7.48	7.14	6.80
	89180	.0700	#50	1.778	1-3/4"	7/8"	7.82	7.48	7.14	6.80
77185		.0730	#49	1.854	1-3/4"	11/16"	8.03	7.68	7.33	6.98
	89185	.0730	#49	1.854	1-3/4"	7/8"	8.03	7.68	7.33	6.98
77190		.0760	#48	1.930	1-3/4"	11/16"	8.29	7.93	7.57	7.21
	89190	.0760	#48	1.930	1-3/4"	7/8"	8.29	7.93	7.57	7.21
77195		.0781	5/64"	1.984	1-3/4"	11/16"	8.60	8.23	7.85	7.48
	89195	.0781	5/64"	1.984	1-3/4"	7/8"	8.60	8.23	7.85	7.48
77200		.0785	#47	1.994	1-3/4"	3/4"	8.89	8.50	8.12	7.73
	89200	.0785	#47	1.994	1-3/4"	7/8"	8.89	8.50	8.12	7.73
77205		.0787		2.000	44	19	9.03	8.64	8.24	7.85
	89205	.0787		2.000	44	22	9.03	8.64	8.24	7.85
77210		.0810	#46	2.057	1-3/4"	3/4"	9.18	8.78	8.38	7.98
	89210	.0810	#46	2.057	1-3/4"	7/8"	9.18	8.78	8.38	7.98
77215		.0820	#45	2.083	1-3/4"	3/4"	9.45	9.04	8.63	8.22
	89215	.0820	#45	2.083	1-3/4"	7/8"	9.45	9.04	8.63	8.22
77220		.0860	#44	2.184	1-3/4"	3/4"	9.76	9.34	8.91	8.49
	89220	.0860	#44	2.184	2"	1"	9.76	9.34	8.91	8.49
77225		.0890	#43	2.261	1-3/4"	3/4"	10.04	9.60	9.17	8.73
	89225	.0890	#43	2.261	2"	1"	10.04	9.60	9.17	8.73
77230		.0935	#42	2.375	1-3/4"	3/4"	10.18	9.74	9.29	8.85
	89230	.0935	#42	2.375	2"	1"	10.18	9.74	9.29	8.85
77235		.0938	3/32"	2.383	1-3/4"	3/4"	10.41	9.96	9.50	9.05
	89235	.0938	3/32"	2.383	2"	1"	10.41	9.96	9.50	9.05
77240		.0960	#41	2.438	1-13/16"	13/16"	10.50	10.04	9.59	9.13
	89240	.0960	#41	2.438	2"	1"	10.50	10.04	9.59	9.13
77245		.0980	#40	2.489	1-13/16"	13/16"	10.66	10.20	9.73	9.27
	89245	.0980	#40	2.489	2"	1"	10.66	10.20	9.73	9.27
77250		.0984		2.500	46	21	10.72	10.25	9.79	9.32
	89250	.0984		2.500	57	32	10.72	10.25	9.79	9.32
77255		.0995	#39	2.527	1-13/16"	13/16"	10.76	10.30	9.83	9.36
	89255	.0995	#39	2.527	2-1/4"	1-1/4"	10.76	10.30	9.83	9.36
77260		.1015	#38	2.578	1-13/16"	13/16"	10.86	10.38	9.91	9.44
	89260	.1015	#38	2.578	2-1/4"	1-1/4"	10.89	10.42	9.94	9.47

continued →

## Series 1520, 1205 (continued)

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

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							
77265		.1040	#37	2.642	1-13/16"	13/16"	10.95	10.47	10.00	9.52
	89265	.1040	#37	2.642	2-1/4"	1-1/4"	11.04	10.56	10.08	9.60
77270		.1065	#36	2.705	1-13/16"	13/16"	11.02	10.54	10.06	9.58
	89270	.1065	#36	2.705	2-1/4"	1-1/4"	11.18	10.69	10.21	9.72
77275		.1094	7/64"	2.779	1-13/16"	13/16"	11.09	10.60	10.12	9.64
	89275	.1094	7/64"	2.779	2-1/4"	1-1/4"	11.36	10.87	10.37	9.88
77280		.1100	#35	2.794	1-7/8"	7/8"	11.16	10.67	10.19	9.70
	89280	.1100	#35	2.794	2-1/4"	1-1/4"	11.49	10.99	10.49	9.99
77285		.1110	#34	2.819	1-7/8"	7/8"	11.29	10.80	10.31	9.82
	89285	.1110	#34	2.819	2-1/4"	1-1/4"	11.63	11.12	10.62	10.11
77290		.1130	#33	2.870	1-7/8"	7/8"	11.36	10.87	10.37	9.88
	89290	.1130	#33	2.870	2-1/4"	1-1/4"	11.85	11.33	10.82	10.30
77295		.1160	#32	2.946	1-7/8"	7/8"	11.44	10.95	10.45	9.95
	89295	.1160	#32	2.946	2-1/4"	1-1/4"	11.97	11.45	10.93	10.41
77300		.1181		3.000	48	22	11.58	11.08	10.57	10.07
	89300	.1181		3.000	57	32	12.09	11.56	11.04	10.51
77305		.1200	#31	3.048	1-7/8"	7/8"	11.65	11.14	10.64	10.13
	89305	.1200	#31	3.048	2-1/4"	1-1/4"	12.17	11.64	11.11	10.58
77310		.1250	1/8"	3.175	1-7/8"	7/8"	11.78	11.26	10.75	10.24
	89310	.1250	1/8"	3.175	2-1/4"	1-1/4"	12.32	11.78	11.25	10.71
77315		.1285	#30	3.264	1-15/16"	15/16"	12.10	11.57	11.05	10.52
	89315	.1285	#30	3.264	2-1/4"	1-1/4"	12.63	12.08	11.53	10.98
77320		.1360	#29	3.454	1-15/16"	15/16"	12.42	11.88	11.34	10.80
	89320	.1360	#29	3.454	2-1/2"	1-3/8"	13.03	12.46	11.90	11.33
77325		.1378		3.500	49	24	12.82	12.27	11.71	11.15
	89325	.1378		3.500	63	35	13.46	12.87	12.29	11.70
77330		.1405	#28	3.569	1-15/16"	15/16"	13.00	12.43	11.87	11.30
	89330	.1405	#28	3.569	2-1/2"	1-3/8"	13.58	12.99	12.40	11.81
77335		.1406	9/64"	3.571	1-15/16"	15/16"	13.12	12.55	11.98	11.41
	89335	.1406	9/64"	3.571	2-1/2"	1-3/8"	13.74	13.15	12.55	11.95
77340		.1440	#27	3.658	2-1/16"	1"	14.28	13.66	13.04	12.42
	89340	.1440	#27	3.658	2-1/2"	1-3/8"	14.28	13.66	13.04	12.42
77345		.1470	#26	3.734	2-1/16"	1"	14.42	13.79	13.17	12.54
	89345	.1470	#26	3.734	2-1/2"	1-3/8"	14.42	13.79	13.17	12.54
77350		.1495	#25	3.797	2-1/16"	1"	14.62	13.98	13.35	12.71
	89350	.1495	#25	3.797	2-1/2"	1-3/8"	14.62	13.98	13.35	12.71
77355		.1520	#24	3.861	2-1/16"	1"	14.64	14.00	13.37	12.73
	89355	.1520	#24	3.861	2-1/2"	1-3/8"	14.64	14.00	13.37	12.73
77360		.1540	#23	3.912	2-1/16"	1"	14.74	14.10	13.46	12.82
	89360	.1540	#23	3.912	2-1/2"	1-3/8"	14.74	14.10	13.46	12.82
77365		.1562	5/32"	3.967	2-1/16"	1"	14.85	14.20	13.56	12.91
	89365	.1562	5/32"	3.967	2-1/2"	1-3/8"	14.85	14.20	13.56	12.91
77370		.1570	#22	3.988	2-1/8"	1-1/16"	15.78	15.09	14.41	13.72
	89370	.1570	#22	3.988	2-1/2"	1-3/8"	15.78	15.09	14.41	13.72
77375		.1575		4.000	54	27	15.97	15.28	14.58	13.89
	89375	.1575		4.000	63	35	15.97	15.28	14.58	13.89
77380		.1590	#21	4.039	2-1/8"	1-1/16"	16.16	15.46	14.75	14.05
	89380	.1590	#21	4.039	2-1/2"	1-3/8"	16.16	15.46	14.75	14.05
77385		.1610	#20	4.089	2-1/8"	1-1/16"	16.27	15.57	14.86	14.15
	89385	.1610	#20	4.089	2-1/2"	1-3/8"	16.27	15.57	14.86	14.15
77390		.1660	#19	4.216	2-1/8"	1-1/16"	16.94	16.20	15.47	14.73
	89390	.1660	#19	4.216	2-3/4"	1-5/8"	16.94	16.20	15.47	14.73
77395		.1695	#18	4.305	2-1/8"	1-1/16"	17.15	16.40	15.66	14.91
	89395	.1695	#18	4.305	2-3/4"	1-5/8"	17.15	16.40	15.66	14.91
77400		.1719	11/64"	4.366	2-1/8"	1-1/16"	17.51	16.75	15.99	15.23
	89400	.1719	11/64"	4.366	2-3/4"	1-5/8"	17.51	16.75	15.99	15.23

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"	17.74	16.97	16.20	15.43
	89405	.1730	#17	4.394	2-3/4"	1-5/8"	17.74	16.97	16.20	15.43
77410		.1770	#16	4.496	2-3/16"	1-1/8"	17.94	17.16	16.38	15.60
	89410	.1770	#16	4.496	2-3/4"	1-5/8"	17.94	17.16	16.38	15.60
77415		.1772		4.500	56	29	18.03	17.25	16.46	15.68
	89415	.1772		4.500	70	41	18.03	17.25	16.46	15.68
77420		.1800	#15	4.572	2-3/16"	1-1/8"	18.11	17.33	16.54	15.75
	89420	.1800	#15	4.572	2-3/4"	1-5/8"	18.11	17.33	16.54	15.75
77425		.1820	#14	4.623	2-3/16"	1-1/8"	18.53	17.72	16.92	16.11
	89425	.1820	#14	4.623	2-3/4"	1-5/8"	18.53	17.72	16.92	16.11
77430		.1850	#13	4.700	2-3/16"	1-1/8"	18.66	17.85	17.04	16.23
	89430	.1850	#13	4.700	2-3/4"	1-5/8"	18.66	17.85	17.04	16.23
77435		.1875	3/16"	4.763	2-3/16"	1-1/8"	18.76	17.94	17.13	16.31
	89435	.1875	3/16"	4.763	2-3/4"	1-5/8"	18.76	17.94	17.13	16.31
77440		.1890	#12	4.801	2-1/4"	1-3/16"	19.37	18.52	17.68	16.84
	89440	.1890	#12	4.801	2-3/4"	1-5/8"	19.37	18.52	17.68	16.84
77445		.1910	#11	4.851	2-1/4"	1-3/16"	19.57	18.72	17.87	17.02
	89445	.1910	#11	4.851	2-3/4"	1-5/8"	19.57	18.72	17.87	17.02
77450		.1935	#10	4.915	2-1/4"	1-3/16"	20.52	19.62	18.73	17.84
	89450	.1935	#10	4.915	2-3/4"	1-5/8"	20.52	19.62	18.73	17.84
77455		.1960	#9	4.978	2-1/4"	1-3/16"	21.02	20.11	19.19	18.28
	89455	.1960	#9	4.978	3"	1-3/4"	21.02	20.11	19.19	18.28
77460		.1969		5.000	57	30	21.15	20.23	19.31	18.39
	89460	.1969		5.000	76	44	21.15	20.23	19.31	18.39
77465		.1990	#8	5.055	2-1/4"	1-3/16"	21.29	20.36	19.44	18.51
	89465	.1990	#8	5.055	3"	1-3/4"	21.29	20.36	19.44	18.51
77470		.2010	#7	5.105	2-1/4"	1-3/16"	21.91	20.96	20.00	19.05
	89470	.2010	#7	5.105	3"	1-3/4"	21.91	20.96	20.00	19.05
77475		.2031	13/64"	5.159	2-1/4"	1-3/16"	22.08	21.12	20.16	19.20
	89475	.2031	13/64"	5.159	3"	1-3/4"	22.08	21.12	20.16	19.20
77480		.2040	#6	5.182	2-3/8"	1-1/4"	22.53	21.55	20.57	19.59
	89480	.2040	#6	5.182	3"	1-3/4"	22.53	21.55	20.57	19.59
77485		.2055	#5	5.220	2-3/8"	1-1/4"	23.00	22.00	21.00	20.00
	89485	.2055	#5	5.220	3"	1-3/4"	23.00	22.00	21.00	20.00
77490		.2090	#4	5.309	2-3/8"	1-1/4"	23.39	22.37	21.36	20.34
	89490	.2090	#4	5.309	3"	1-3/4"	23.39	22.37	21.36	20.34
77495		.2130	#3	5.410	2-3/8"	1-1/4"	23.81	22.77	21.74	20.70
	89495	.2130	#3	5.410	3"	1-3/4"	23.81	22.77	21.74	20.70
77500		.2165		5.500	60	32	23.99	22.95	21.90	20.86
	89500	.2165		5.500	76	44	23.99	22.95	21.90	20.86
77505		.2188	7/32"	5.558	2-3/8"	1-1/4"	24.16	23.11	22.06	21.01
	89505	.2188	7/32"	5.558	3"	1-3/4"	24.16	23.11	22.06	21.01
77510		.2210	#2	5.613	2-7/16"	1-5/16"	24.76	23.68	22.61	21.53
	89510	.2210	#2	5.613	3"	1-3/4"	24.76	23.68	22.61	21.53
77515		.2280	#1	5.791	2-7/16"	1-5/16"	24.90	23.82	22.73	21.65
	89515	.2280	#1	5.791	3"	1-3/4"	24.90	23.82	22.73	21.65
77520		.2340	A	5.944	2-7/16"	1-5/16"	24.94	23.86	22.77	21.69
	89520	.2340	A	5.944	3-1/4"	2"	25.19	24.09	23.00	21.90
77525		.2344	15/64"	5.954	2-7/16"	1-5/16"	25.02	23.94	22.85	21.76
	89525	.2344	15/64"	5.954	3-1/4"	2"	25.25	24.16	23.06	21.96
77530		.2362		6.000	64	35	25.10	24.01	22.92	21.83
	89530	.2362		6.000	82	50	25.36	24.26	23.15	22.05
77535		.2380	B	6.045	2-1/2"	1-3/8"	25.19	24.09	23.00	21.90
	89535	.2380	B	6.045	3-1/4"	2"	25.44	24.33	23.23	22.12
77540		.2420	C	6.147	2-1/2"	1-3/8"	25.38	24.28	23.17	22.07
	89540	.2420	C	6.147	3-1/4"	2"	25.63	24.52	23.40	22.29

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"	25.58	24.46	23.35	22.24
	89545	.2460	D	6.248	3-1/4"	2"	25.82	24.70	23.57	22.45
77550		.2500	1/4" / E	6.350	2-1/2"	1-3/8"	25.75	24.63	23.51	22.39
	89550	.2500	1/4" / E	6.350	3-1/4"	2"	26.00	24.87	23.74	22.61
77555		.2559		6.500	67	37	26.36	25.21	24.07	22.92
	89555	.2559		6.500	82	50	26.63	25.48	24.32	23.16
77560		.2570	F	6.528	2-5/8"	1-7/16"	26.92	25.75	24.58	23.41
	89560	.2570	F	6.528	3-1/4"	2"	27.17	25.99	24.81	23.63
77565		.2610	G	6.629	2-5/8"	1-7/16"	27.44	26.25	25.05	23.86
	89565	.2610	G	6.629	3-1/2"	2-1/8"	27.74	26.53	25.33	24.12
77570		.2656	17/64"	6.746	2-5/8"	1-7/16"	28.03	26.81	25.59	24.37
	89570	.2656	17/64"	6.746	3-1/2"	2-1/8"	28.30	27.07	25.84	24.61
77575		.2660	H	6.756	2-11/16"	1-1/2"	28.81	27.56	26.30	25.05
	89575	.2660	H	6.756	3-1/2"	2-1/8"	29.11	27.84	26.58	25.31
77580		.2720	I	6.909	2-11/16"	1-1/2"	29.14	27.87	26.61	25.34
	89580	.2720	I	6.909	3-1/2"	2-1/8"	29.43	28.15	26.87	25.59
77585		.2756		7.000	68	38	29.37	28.09	26.82	25.54
	89585	.2756		7.000	88	54	29.67	28.38	27.09	25.80
77590		.2770	J	7.036	2-11/16"	1-1/2"	29.66	28.37	27.08	25.79
	89590	.2770	J	7.036	3-1/2"	2-1/8"	29.93	28.63	27.33	26.03
77595		.2810	K	7.137	2-11/16"	1-1/2"	29.92	28.62	27.32	26.02
	89595	.2810	K	7.137	3-1/2"	2-1/8"	30.20	28.89	27.57	26.26
77600		.2812	9/32"	7.142	2-11/16"	1-1/2"	30.07	28.77	27.46	26.15
	89600	.2812	9/32"	7.142	3-1/2"	2-1/8"	30.39	29.07	27.75	26.43
77605		.2900	L	7.366	2-3/4"	1-9/16"	31.18	29.82	28.47	27.11
	89605	.2900	L	7.366	3-1/2"	2-1/8"	31.48	30.11	28.74	27.37
77610		.2950	M	7.493	2-3/4"	1-9/16"	33.37	31.92	30.47	29.02
	89610	.2950	M	7.493	3-3/4"	2-3/8"	33.70	32.23	30.77	29.30
77615		.2953		7.500	70	40	33.37	31.92	30.47	29.02
	89615	.2953		7.500	95	60	33.70	32.23	30.77	29.30
77620		.2969	19/64"	7.541	2-3/4"	1-9/16"	33.53	32.08	30.62	29.16
	89620	.2969	19/64"	7.541	3-3/4"	2-3/8"	33.70	32.23	30.77	29.30
77625		.3020	N	7.671	2-15/16"	1-5/8"	35.34	33.80	32.27	30.73
	89625	.3020	N	7.671	3-3/4"	2-3/8"	35.70	34.14	32.59	31.04
77630		.3125	5/16"	7.938	2-15/16"	1-5/8"	35.47	33.92	32.38	30.84
	89630	.3125	5/16"	7.938	3-3/4"	2-3/8"	35.83	34.28	32.72	31.16
77635		.3150		8.000	75	43	38.03	36.38	34.72	33.07
	89635	.3150		8.000	95	60	38.44	36.77	35.10	33.43
77640		.3160	O	8.026	2-15/16"	1-11/16"	38.03	36.38	34.72	33.07
	89640	.3160	O	8.026	3-3/4"	2-3/8"	38.44	36.77	35.10	33.43
77645		.3230	P	8.204	2-15/16"	1-11/16"	38.38	36.71	35.04	33.37
	89645	.3230	P	8.204	3-3/4"	2-3/8"	38.44	36.77	35.10	33.43
77650		.3281	21/64"	8.334	2-15/16"	1-11/16"	38.62	36.94	35.26	33.58
	89650	.3281	21/64"	8.334	4"	2-1/2"	39.01	37.31	35.62	33.92
77655		.3320	Q	8.433	3"	1-11/16"	39.50	37.79	36.07	34.35
	89655	.3320	Q	8.433	4"	2-1/2"	39.93	38.19	36.46	34.72
77660		.3346		8.500	76	43	39.87	38.14	36.40	34.67
	89660	.3346		8.500	101	63	40.27	38.52	36.77	35.02
77665		.3390	R	8.611	3"	1-11/16"	41.15	39.36	37.57	35.78
	89665	.3390	R	8.611	4"	2-1/2"	41.57	39.77	37.96	36.15
77670		.3438	11/32"	8.733	3"	1-11/16"	42.83	40.96	39.10	37.24
	89670	.3438	11/32"	8.733	4"	2-1/2"	43.25	41.37	39.49	37.61
77675		.3480	S	8.839	3-1/16"	1-3/4"	43.40	41.51	39.63	37.74
	89675	.3480	S	8.839	4"	2-1/2"	43.40	41.51	39.63	37.74
77680		.3543		9.000	78	44	43.65	41.76	39.86	37.96
	89680	.3543		9.000	101	63	43.65	41.76	39.86	37.96

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"	43.84	41.93	40.03	38.12
	89685	.3580	T	9.093	4-1/4"	2-3/4"	44.05	42.13	40.22	38.30
77690		.3594	23/64"	9.129	3-1/16"	1-3/4"	44.14	42.22	40.30	38.38
	89690	.3594	23/64"	9.129	4-1/4"	2-3/4"	44.36	42.43	40.50	38.57
77695		.3680	U	9.347	3-1/8"	1-13/16"	48.33	46.23	44.13	42.03
	89695	.3680	U	9.347	4-1/4"	2-3/4"	50.34	48.15	45.96	43.77
77700		.3740		9.500	79	46	48.78	46.66	44.54	42.42
	89700	.3740		9.500	107	70	50.81	48.60	46.39	44.18
77705		.3750	3/8"	9.525	3-1/8"	1-13/16"	49.16	47.03	44.89	42.75
	89705	.3750	3/8"	9.525	4-1/4"	2-3/4"	51.21	48.98	46.76	44.53
77710		.3770	V	9.576	3-1/4"	1-7/8"	50.09	47.92	45.74	43.56
	89710	.3770	V	9.576	4-1/4"	2-3/4"	52.19	49.92	47.65	45.38
77715		.3860	W	9.804	3-1/4"	1-7/8"	51.15	48.93	46.70	44.48
	89715	.3860	W	9.804	4-1/2"	2-7/8"	53.29	50.97	48.66	46.34
77720		.3906	25/64"	9.921	3-1/4"	1-7/8"	51.92	49.67	47.41	45.15
	89720	.3906	25/64"	9.921	4-1/2"	2-7/8"	54.08	51.73	49.38	47.03
77725		.3937		10.000	84	49	53.79	51.45	49.11	46.77
	89725	.3937		10.000	114	73	56.03	53.59	51.16	48.72
77730		.3970	X	10.084	3-5/16"	1-15/16"	55.35	52.94	50.54	48.13
	89730	.3970	X	10.084	4-1/2"	2-7/8"	57.68	55.18	52.67	50.16
	89735	.4040	Y	10.262	4-1/2"	2-7/8"	58.14	55.62	53.09	50.56
77740		.4062	13/32"	10.317	3-5/16"	1-15/16"	57.82	55.31	52.79	50.28
	89740	.4062	13/32"	10.317	4-1/2"	2-7/8"	60.24	57.62	55.00	52.38
77745		.4130	Z	10.490	3-3/8"	2"	58.47	55.92	53.38	50.84
	89745	.4130	Z	10.490	4-1/2"	2-7/8"	60.88	58.23	55.59	52.94
77750		.4134		10.500	86	51	58.47	55.92	53.38	50.84
	89750	.4134		10.500	114	73	60.88	58.23	55.59	52.94
77755		.4219	27/64"	10.716	3-3/8"	2"	59.09	56.52	53.95	51.38
	89755	.4219	27/64"	10.716	4-1/2"	2-7/8"	61.56	58.88	56.21	53.53
77760		.4331		11.000	87	52	64.16	61.37	58.58	55.79
	89760	.4331		11.000	114	73	66.85	63.94	61.04	58.13
77765		.4375	7/16"	11.113	3-7/16"	2-1/16"	64.16	61.37	58.58	55.79
	89765	.4375	7/16"	11.113	4-1/2"	2-7/8"	66.85	63.94	61.04	58.13
77770		.4528		11.500	91	54	69.61	66.58	63.56	60.53
	89770	.4528		11.500	120	76	72.52	69.37	66.21	63.06
77775		.4531	29/64"	11.509	3-9/16"	2-1/8"	69.61	66.58	63.56	60.53
	89775	.4531	29/64"	11.509	4-3/4"	3"	72.52	69.37	66.21	63.06
77780		.4688	15/32"	11.908	3-5/8"	2-1/8"	73.62	70.42	67.22	64.02
	89780	.4688	15/32"	11.908	4-3/4"	3"	76.71	73.37	70.04	66.70
77785		.4724		12.000	94	56	73.90	70.69	67.47	64.26
	89785	.4724		12.000	120	76	76.95	73.60	70.26	66.91
77790		.4844	31/64"	12.304	3-11/16"	2-3/16"	74.45	71.21	67.98	64.74
	89790	.4844	31/64"	12.304	4-3/4"	3"	76.95	73.60	70.26	66.91
77795		.4921		12.500	95	56	75.31	72.04	68.76	65.49
	89795	.4921		12.500	120	76	79.01	75.57	72.14	68.70
77800		.5000	1/2"	12.700	3-3/4"	2-1/4"	75.85	72.56	69.26	65.96
	89800	.5000	1/2"	12.700	4-3/4"	3"	79.01	75.57	72.14	68.70
<b>NEW</b>	77805	.5118		13.000	107	60	95.29	91.15	87.00	82.86
	89805	.5118		13.000	127	83	99.26	94.94	90.63	86.31
<b>NEW</b>	77810	.5156	33/64"	13.096	4-1/4"	2-3/8"	97.84	93.59	89.33	85.08
	89810	.5156	33/64"	13.096	5"	3-1/4"	101.92	97.49	93.06	88.63
<b>NEW</b>	77815	.5312	17/32"	13.492	4-1/4"	2-3/8"	100.40	96.03	91.67	87.30
	89815	.5312	17/32"	13.492	5"	3-1/4"	104.58	100.03	95.49	90.94
<b>NEW</b>	77820	.5315		13.500	107	60	102.95	98.47	94.00	89.52
	89820	.5315		13.500	127	83	107.25	102.59	97.92	93.26

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							
<b>NEW</b>	77825		.5469	35/64"	13.891	4-1/4"	2-3/8"	105.51	100.93	96.34	91.75
		89825	.5469	35/64"	13.891	5"	3-1/4"	109.92	105.14	100.36	95.58
<b>NEW</b>	77830		.5512		14.000	107	60	108.07	103.37	98.67	93.97
		89830	.5512		14.000	127	83	112.59	107.69	102.80	97.90
<b>NEW</b>	77835		.5625	9/16"	14.287	4-1/2"	2-1/2"	117.85	112.73	107.60	102.48
		89835	.5625	9/16"	14.287	5"	3-1/4"	122.77	117.44	112.10	106.76
<b>NEW</b>	77840		.5709		14.500	115	65	120.31	115.08	109.85	104.62
		89840	.5709		14.500	127	83	125.33	119.88	114.43	108.98
<b>NEW</b>	77845		.5781	37/64"	14.683	4-1/2"	2-1/2"	122.77	117.44	112.10	106.76
		89845	.5781	37/64"	14.683	5-1/4"	3-1/2"	127.89	122.33	116.77	111.21
<b>NEW</b>	77850		.5906		15.000	115	65	125.28	119.83	114.39	108.94
		89850	.5906		15.000	133	89	130.49	124.82	119.14	113.47
<b>NEW</b>	77855		.5938	19/32"	15.082	4-1/2"	2-1/2"	125.99	120.52	115.04	109.56
		89855	.5938	19/32"	15.082	5-1/4"	3-1/2"	131.25	125.54	119.84	114.13
<b>NEW</b>	77860		.6094	39/64"	15.478	4-1/2"	2-1/2"	126.70	121.19	115.68	110.17
		89860	.6094	39/64"	15.478	5-1/4"	3-1/2"	131.96	126.23	120.49	114.75
<b>NEW</b>	77865		.6102		15.500	115	65	127.41	121.87	116.33	110.79
		89865	.6102		15.500	133	89	132.72	126.95	121.18	115.41
<b>NEW</b>	77870		.6250	5/8"	15.875	4-1/2"	2-1/2"	128.11	122.54	116.97	111.40
		89870	.6250	5/8"	15.875	5-1/4"	3-1/2"	133.45	127.64	121.84	116.04
<b>NEW</b>	77875		.6299		16.000	115	65	131.54	125.82	120.10	114.38
		89875	.6299		16.000	133	89	137.02	131.07	125.11	119.15



*Drill and Reamer Manufacturing*