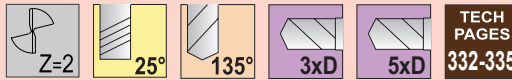


TOLERANCES

<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)



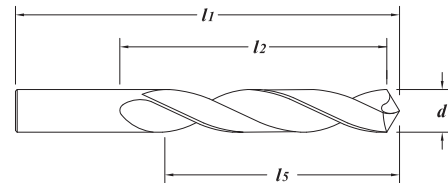
Series 1520H, 1205H

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

General purpose for all material groups

BALINIT® Durana Coating

- Solid submicron grain carbide drill
- Excellent heat resistance and lubricity
- No spotting required in most applications
- 4-facet self-centering point
- Live tooling recommended on lathe processes
- Bright Finish - page 71



3xD (1520H) EDP#	5xD (1205H) EDP#	<i>d</i> † Diameter		<i>l₁</i> Overall Length	<i>l₂</i> Flute Length	<i>l₃</i> Max Drill Depth	LIST PRICE	
		Decimal	Metric					
77166		.0625	1/16"	1.588	1-3/4"	5/8"	.200"	9.01
	89166	.0625	1/16"	1.588	1-3/4"	3/4"	.325"	9.01
77171		.0635	#52	1.613	1-3/4"	11/16"	.204"	9.12
	89171	.0635	#52	1.613	1-3/4"	3/4"	.331"	9.12
77176		.0670	#51	1.702	1-3/4"	11/16"	.215"	9.24
	89176	.0670	#51	1.702	1-3/4"	3/4"	.349"	9.24
77181		.0700	#50	1.778	1-3/4"	11/16"	.224"	9.38
	89181	.0700	#50	1.778	1-3/4"	7/8"	.364"	9.38
77186		.0730	#49	1.854	1-3/4"	11/16"	.234"	9.59
	89186	.0730	#49	1.854	1-3/4"	7/8"	.380"	9.60
77191		.0760	#48	1.930	1-3/4"	11/16"	.244"	9.84
	89191	.0760	#48	1.930	1-3/4"	7/8"	.396"	9.84
77196		.0781	5/64"	1.984	1-3/4"	11/16"	.250"	10.14
	89196	.0781	5/64"	1.984	1-3/4"	7/8"	.407"	10.16
77201		.0785	#47	1.994	1-3/4"	3/4"	.252"	10.41
	89201	.0785	#47	1.994	1-3/4"	7/8"	.409"	10.43
77206		.0787		2.000	44	19	6	10.55
	89206	.0787		2.000	44	22	10	10.55
77211		.0810	#46	2.057	1-3/4"	3/4"	.260"	10.68
	89211	.0810	#46	2.057	1-3/4"	7/8"	.422"	10.69
77216		.0820	#45	2.083	1-3/4"	3/4"	.263"	10.94
	89216	.0820	#45	2.083	1-3/4"	7/8"	.427"	10.95
77221		.0860	#44	2.184	1-3/4"	3/4"	.276"	11.24
	89221	.0860	#44	2.184	2"	1"	.448"	11.25
77226		.0890	#43	2.261	1-3/4"	3/4"	.285"	11.49
	89226	.0890	#43	2.261	2"	1"	.463"	11.50
77231		.0935	#42	2.375	1-3/4"	3/4"	.300"	11.64
	89231	.0935	#42	2.375	2"	1"	.487"	11.64
77236		.0938	3/32"	2.383	1-3/4"	3/4"	.301"	11.86
	89236	.0938	3/32"	2.383	2"	1"	.488"	11.86
77241		.0960	#41	2.438	1-13/16"	13/16"	.308"	11.94
	89241	.0960	#41	2.438	2"	1"	.500"	11.96
77246		.0980	#40	2.489	1-13/16"	13/16"	.314"	12.09
	89246	.0980	#40	2.489	2"	1"	.510"	12.11
77251		.0984		2.500	46	21	8	12.13
	89251	.0984		2.500	57	32	13	12.13
77256		.0995	#39	2.527	1-13/16"	13/16"	.319"	12.19
	89256	.0995	#39	2.527	2-1/4"	1-1/4"	.518"	12.19
77261		.1015	#38	2.578	1-13/16"	13/16"	.326"	12.30
	89261	.1015	#38	2.578	2-1/4"	1-1/4"	.529"	12.34

GENERAL PURPOSE
DRILLS

Series 1520H, 1205H (continued)

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

3xD (1520H) EDP#	5xD (1205H) EDP#	d^{\dagger} Diameter		l_1 Overall Length	l_2 Flute Length	l_5 Max Drill Depth	LIST PRICE	
		Decimal	Metric					
77266		.1040	#37	2.642	1-13/16"	13/16"	.334"	12.35
	89266	.1040	#37	2.642	2-1/4"	1-1/4"	.542"	12.44
77271		.1065	#36	2.705	1-13/16"	13/16"	.342"	12.43
	89271	.1065	#36	2.705	2-1/4"	1-1/4"	.555"	12.58
77276		.1094	7/64"	2.779	1-13/16"	13/16"	.351"	12.48
	89276	.1094	7/64"	2.779	2-1/4"	1-1/4"	.570"	12.77
77281		.1100	#35	2.794	1-7/8"	7/8"	.353"	12.56
	89281	.1100	#35	2.794	2-1/4"	1-1/4"	.573"	12.87
77286		.1110	#34	2.819	1-7/8"	7/8"	.356"	12.69
	89286	.1110	#34	2.819	2-1/4"	1-1/4"	.578"	13.01
77291		.1130	#33	2.870	1-7/8"	7/8"	.362"	12.76
	89291	.1130	#33	2.870	2-1/4"	1-1/4"	.588"	13.22
77296		.1160	#32	2.946	1-7/8"	7/8"	.372"	12.84
	89296	.1160	#32	2.946	2-1/4"	1-1/4"	.604"	13.32
77301		.1181		3.000	48	22	10	12.95
	89301	.1181		3.000	57	32	16	13.43
77306		.1200	#31	3.048	1-7/8"	7/8"	.385"	13.04
	89306	.1200	#31	3.048	2-1/4"	1-1/4"	.625"	13.54
77311		.1250	1/8"	3.175	1-7/8"	7/8"	.401"	13.16
	89311	.1250	1/8"	3.175	2-1/4"	1-1/4"	.651"	13.65
77316		.1285	#30	3.264	1-15/16"	15/16"	.412"	13.45
	89316	.1285	#30	3.264	2-1/4"	1-1/4"	.669"	13.96
77321		.1360	#29	3.454	1-15/16"	15/16"	.436"	13.77
	89321	.1360	#29	3.454	2-1/2"	1-3/8"	.708"	14.33
77326		.1378		3.500	49	24	11	14.15
	89326	.1378		3.500	63	35	18	14.73
77331		.1405	#28	3.569	1-15/16"	15/16"	.451"	14.29
	89331	.1405	#28	3.569	2-1/2"	1-3/8"	.732"	14.89
77336		.1406	9/64"	3.571	1-15/16"	15/16"	.451"	14.43
	89336	.1406	9/64"	3.571	2-1/2"	1-3/8"	.732"	15.02
77341		.1440	#27	3.658	2-1/16"	1"	.462"	15.52
	89341	.1440	#27	3.658	2-1/2"	1-3/8"	.750"	15.53
77346		.1470	#26	3.734	2-1/16"	1"	.471"	15.67
	89346	.1470	#26	3.734	2-1/2"	1-3/8"	.765"	15.67
77351		.1495	#25	3.797	2-1/16"	1"	.479"	15.82
	89351	.1495	#25	3.797	2-1/2"	1-3/8"	.778"	15.82
77356		.1520	#24	3.861	2-1/16"	1"	.487"	15.87
	89356	.1520	#24	3.861	2-1/2"	1-3/8"	.791"	15.89
77361		.1540	#23	3.912	2-1/16"	1"	.494"	15.96
	89361	.1540	#23	3.912	2-1/2"	1-3/8"	.802"	15.97
77366		.1562	5/32"	3.967	2-1/16"	1"	.501"	16.04
	89366	.1562	5/32"	3.967	2-1/2"	1-3/8"	.813"	16.04
77371		.1570	#22	3.988	2-1/8"	1-1/16"	.504"	16.94
	89371	.1570	#22	3.988	2-1/2"	1-3/8"	.818"	16.94
77376		.1575		4.000	54	27	13	17.11
	89376	.1575		4.000	63	35	21	17.12
77381		.1590	#21	4.039	2-1/8"	1-1/16"	.510"	17.32
	89381	.1590	#21	4.039	2-1/2"	1-3/8"	.828"	17.32
77386		.1610	#20	4.089	2-1/8"	1-1/16"	.516"	17.42
	89386	.1610	#20	4.089	2-1/2"	1-3/8"	.838"	17.42
77391		.1660	#19	4.216	2-1/8"	1-1/16"	.532"	18.05
	89391	.1660	#19	4.216	2-3/4"	1-5/8"	.864"	18.06
77396		.1695	#18	4.305	2-1/8"	1-1/16"	.544"	18.24
	89396	.1695	#18	4.305	2-3/4"	1-5/8"	.883"	18.24
77401		.1719	11/64"	4.366	2-1/8"	1-1/16"	.551"	18.55
	89401	.1719	11/64"	4.366	2-3/4"	1-5/8"	.895"	18.55

3xD (1520H) EDP#	5xD (1205H) EDP#	$d \dagger$ Diameter		l_1 Overall Length	l_2 Flute Length	l_5 Max Drill Depth	LIST PRICE
		Decimal	Metric				
77406		.1730	#17	4.394	2-3/16"	1-1/8"	18.80
	89406	.1730	#17	4.394	2-3/4"	1-5/8"	18.82
77411		.1770	#16	4.496	2-3/16"	1-1/8"	18.99
	89411	.1770	#16	4.496	2-3/4"	1-5/8"	18.99
77416		.1772		4.500	56	29	19.08
	89416	.1772		4.500	70	41	19.09
77421		.1800	#15	4.572	2-3/16"	1-1/8"	19.17
	89421	.1800	#15	4.572	2-3/4"	1-5/8"	19.17
77426		.1820	#14	4.623	2-3/16"	1-1/8"	19.54
	89426	.1820	#14	4.623	2-3/4"	1-5/8"	19.54
77431		.1850	#13	4.700	2-3/16"	1-1/8"	19.67
	89431	.1850	#13	4.700	2-3/4"	1-5/8"	19.69
77436		.1875	3/16"	4.763	2-3/16"	1-1/8"	19.74
	89436	.1875	3/16"	4.763	2-3/4"	1-5/8"	19.77
77441		.1890	#12	4.801	2-1/4"	1-3/16"	21.79
	89441	.1890	#12	4.801	2-3/4"	1-5/8"	21.79
77446		.1910	#11	4.851	2-1/4"	1-3/16"	21.99
	89446	.1910	#11	4.851	2-3/4"	1-5/8"	21.99
77451		.1935	#10	4.915	2-1/4"	1-3/16"	22.85
	89451	.1935	#10	4.915	2-3/4"	1-5/8"	22.85
77456		.1960	#9	4.978	2-1/4"	1-3/16"	23.35
	89456	.1960	#9	4.978	3"	1-3/4"	23.35
77461		.1969		5.000	57	30	23.47
	89461	.1969		5.000	76	44	23.47
77466		.1990	#8	5.055	2-1/4"	1-3/16"	23.58
	89466	.1990	#8	5.055	3"	1-3/4"	23.57
77471		.2010	#7	5.105	2-1/4"	1-3/16"	24.20
	89471	.2010	#7	5.105	3"	1-3/4"	24.19
77476		.2031	13/64"	5.159	2-1/4"	1-3/16"	24.34
	89476	.2031	13/64"	5.159	3"	1-3/4"	24.34
77481		.2040	#6	5.182	2-3/8"	1-1/4"	24.78
	89481	.2040	#6	5.182	3"	1-3/4"	24.78
77486		.2055	#5	5.220	2-3/8"	1-1/4"	25.21
	89486	.2055	#5	5.220	3"	1-3/4"	25.21
77491		.2090	#4	5.309	2-3/8"	1-1/4"	25.62
	89491	.2090	#4	5.309	3"	1-3/4"	25.62
77496		.2130	#3	5.410	2-3/8"	1-1/4"	25.99
	89496	.2130	#3	5.410	3"	1-3/4"	25.99
77501		.2165		5.500	60	32	26.17
	89501	.2165		5.500	76	44	26.15
77506		.2188	7/32"	5.558	2-3/8"	1-1/4"	26.32
	89506	.2188	7/32"	5.558	3"	1-3/4"	26.31
77511		.2210	#2	5.613	2-7/16"	1-5/16"	26.89
	89511	.2210	#2	5.613	3"	1-3/4"	26.86
77516		.2280	#1	5.791	2-7/16"	1-5/16"	27.03
	89516	.2280	#1	5.791	3"	1-3/4"	27.02
77521		.2340	A	5.944	2-7/16"	1-5/16"	27.09
	89521	.2340	A	5.944	3-1/4"	2"	27.40
77526		.2344	15/64"	5.954	2-7/16"	1-5/16"	27.13
	89526	.2344	15/64"	5.954	3-1/4"	2"	27.48
77531		.2362		6.000	64	35	27.20
	89531	.2362		6.000	82	50	27.57
77536		.2380	B	6.045	2-1/2"	1-3/8"	27.29
	89536	.2380	B	6.045	3-1/4"	2"	27.65
77541		.2420	C	6.147	2-1/2"	1-3/8"	27.47
	89541	.2420	C	6.147	3-1/4"	2"	27.83

continued →

Series 1520H, 1205H (continued)

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

3xD (1520H) EDP#	5xD (1205H) EDP#	$d \dagger$ Diameter		l_1 Overall Length	l_2 Flute Length	l_5 Max Drill Depth	LIST PRICE	
		Decimal	Metric					
77546		.2460	D	6.248	2-1/2"	1-3/8"	.789"	27.65
	89546	.2460	D	6.248	3-1/4"	2"	1.281"	28.02
77551		.2500	1/4" / E	6.350	2-1/2"	1-3/8"	.802"	27.82
	89551	.2500	1/4" / E	6.350	3-1/4"	2"	1.302"	28.17
77556		.2559		6.500	67	37	21	31.05
	89556	.2559		6.500	82	50	34	31.72
77561		.2570	F	6.528	2-5/8"	1-7/16"	.824"	31.58
	89561	.2570	F	6.528	3-1/4"	2"	1.338"	32.27
77566		.2610	G	6.629	2-5/8"	1-7/16"	.837"	32.09
	89566	.2610	G	6.629	3-1/2"	2-1/8"	1.359"	32.77
77571		.2656	17/64"	6.746	2-5/8"	1-7/16"	.852"	32.63
	89571	.2656	17/64"	6.746	3-1/2"	2-1/8"	1.383"	33.31
77576		.2660	H	6.756	2-11/16"	1-1/2"	.853"	33.39
	89576	.2660	H	6.756	3-1/2"	2-1/8"	1.385"	34.06
77581		.2720	I	6.909	2-11/16"	1-1/2"	.872"	33.70
	89581	.2720	I	6.909	3-1/2"	2-1/8"	1.416"	34.38
77586		.2756		7.000	68	38	22	33.93
	89586	.2756		7.000	88	54	36	34.60
77591		.2770	J	7.036	2-11/16"	1-1/2"	.888"	34.19
	89591	.2770	J	7.036	3-1/2"	2-1/8"	1.442"	34.85
77596		.2810	K	7.137	2-11/16"	1-1/2"	.901"	34.42
	89596	.2810	K	7.137	3-1/2"	2-1/8"	1.463"	35.12
77601		.2812	9/32"	7.142	2-11/16"	1-1/2"	.902"	34.57
	89601	.2812	9/32"	7.142	3-1/2"	2-1/8"	1.464"	35.25
77606		.2900	L	7.366	2-3/4"	1-9/16"	.930"	35.62
	89606	.2900	L	7.366	3-1/2"	2-1/8"	1.510"	36.33
77611		.2950	M	7.493	2-3/4"	1-9/16"	.946"	37.68
	89611	.2950	M	7.493	3-3/4"	2-3/8"	1.536"	38.41
77616		.2953		7.500	70	40	24	37.68
	89616	.2953		7.500	95	60	39	38.41
77621		.2969	19/64"	7.541	2-3/4"	1-9/16"	.952"	37.87
	89621	.2969	19/64"	7.541	3-3/4"	2-3/8"	1.546"	38.41
77626		.3020	N	7.671	2-15/16"	1-5/8"	.969"	39.58
	89626	.3020	N	7.671	3-3/4"	2-3/8"	1.573"	40.31
77631		.3125	5/16"	7.938	2-15/16"	1-5/8"	1.002"	39.71
	89631	.3125	5/16"	7.938	3-3/4"	2-3/8"	1.627"	40.46
77636		.3150		8.000	75	43	26	42.14
	89636	.3150		8.000	95	60	42	42.90
77641		.3160	O	8.026	2-15/16"	1-11/16"	1.013"	42.14
	89641	.3160	O	8.026	3-3/4"	2-3/8"	1.645"	42.90
77646		.3230	P	8.204	2-15/16"	1-11/16"	1.036"	42.44
	89646	.3230	P	8.204	3-3/4"	2-3/8"	1.682"	42.90
77651		.3281	21/64"	8.334	2-15/16"	1-11/16"	1.052"	42.68
	89651	.3281	21/64"	8.334	4"	2-1/2"	1.708"	43.45
77656		.3320	Q	8.433	3"	1-11/16"	1.065"	43.53
	89656	.3320	Q	8.433	4"	2-1/2"	1.729"	44.32
77661		.3346		8.500	76	43	27	43.87
	89661	.3346		8.500	101	63	44	44.65
77666		.3390	R	8.611	3"	1-11/16"	1.087"	45.07
	89666	.3390	R	8.611	4"	2-1/2"	1.765"	45.87
77671		.3438	11/32"	8.733	3"	1-11/16"	1.103"	46.66
	89671	.3438	11/32"	8.733	4"	2-1/2"	1.790"	47.46
77676		.3480	S	8.839	3-1/16"	1-3/4"	1.116"	49.36
	89676	.3480	S	8.839	4"	2-1/2"	1.812"	49.34
77681		.3543		9.000	78	44	29	49.61
	89681	.3543		9.000	101	63	47	49.62

3xD (1520H) EDP#	5xD (1205H) EDP#	$d \dagger$ Diameter		l_1 Overall Length	l_2 Flute Length	l_5 Max Drill Depth	LIST PRICE	
		Decimal	Metric					
77686		.3580	T	9.093	3-1/16"	1-3/4"	49.77	
	89686	.3580	T	9.093	4-1/4"	2-3/4"	51.59	
77691		.3594	23/64"	9.129	3-1/16"	1-3/4"	50.07	
	89691	.3594	23/64"	9.129	4-1/4"	2-3/4"	51.91	
77696		.3680	U	9.347	3-1/8"	1-13/16"	54.04	
	89696	.3680	U	9.347	4-1/4"	2-3/4"	57.58	
77701		.3740		9.500	79	46	30	54.47
	89701	.3740		9.500	107	70	49	58.01
77706		.3750	3/8"	9.525	3-1/8"	1-13/16"	1.203"	54.82
	89706	.3750	3/8"	9.525	4-1/4"	2-3/4"	1.953"	58.39
77711		.3770	V	9.576	3-1/4"	1-7/8"	1.209"	56.93
	89711	.3770	V	9.576	4-1/4"	2-3/4"	1.963"	59.82
77716		.3860	W	9.804	3-1/4"	1-7/8"	1.238"	57.92
	89716	.3860	W	9.804	4-1/2"	2-7/8"	2.010"	60.89
77721		.3906	25/64"	9.921	3-1/4"	1-7/8"	1.253"	58.64
	89721	.3906	25/64"	9.921	4-1/2"	2-7/8"	2.034"	61.62
77726		.3937		10.000	84	49	32	60.42
	89726	.3937		10.000	114	73	52	63.48
77731		.3970	X	10.084	3-5/16"	1-15/16"	1.273"	61.89
	89731	.3970	X	10.084	4-1/2"	2-7/8"	2.067"	65.02
77736		.4040	Y	10.262	3-5/16"	1-15/16"	1.296"	62.33
	89736	.4040	Y	10.262	4-1/2"	2-7/8"	2.104"	65.47
77741		.4062	13/32"	10.317	3-5/16"	1-15/16"	1.303"	64.26
	89741	.4062	13/32"	10.317	4-1/2"	2-7/8"	2.115"	67.46
77746		.4130	Z	10.490	3-3/8"	2"	1.325"	64.82
	89746	.4130	Z	10.490	4-1/2"	2-7/8"	2.151"	68.08
77751		.4134		10.500	86	51	34	64.82
	89751	.4134		10.500	114	73	55	68.08
77756		.4219	27/64"	10.716	3-3/8"	2"	1.353"	65.44
	89756	.4219	27/64"	10.716	4-1/2"	2-7/8"	2.197"	68.71
77761		.4331		11.000	87	52	35	70.25
	89761	.4331		11.000	114	73	57	73.72
77766		.4375	7/16"	11.113	3-7/16"	2-1/16"	1.403"	70.25
	89766	.4375	7/16"	11.113	4-1/2"	2-7/8"	2.278"	73.72
77771		.4528		11.500	91	54	37	75.41
	89771	.4528		11.500	120	76	60	79.09
77776		.4531	29/64"	11.509	3-9/16"	2-1/8"	1.453"	75.41
	89776	.4531	29/64"	11.509	4-3/4"	3"	2.359"	79.09
77781		.4688	15/32"	11.908	3-5/8"	2-1/8"	1.503"	79.23
	89781	.4688	15/32"	11.908	4-3/4"	3"	2.441"	83.06
77786		.4724		12.000	94	56	38	79.46
	89786	.4724		12.000	120	76	62	83.31
77791		.4844	31/64"	12.304	3-11/16"	2-3/16"	1.554"	80.01
	89791	.4844	31/64"	12.304	4-3/4"	3"	2.522"	83.31
77796		.4921		12.500	95	56	40	80.79
	89796	.4921		12.500	120	76	65	85.25
77801		.5000	1/2"	12.700	3-3/4"	2-1/4"	1.604"	81.31
	89801	.5000	1/2"	12.700	4-3/4"	3"	2.604"	85.25
77806		.5118		13.000	107	60	42	103.47
	89806	.5118		13.000	127	83	68	107.29
77811		.5156	33/64"	13.096	4-1/4"	2-3/8"	1.654"	105.90
	89811	.5156	33/64"	13.096	5"	3-1/4"	2.685"	109.80
77816		.5312	17/32"	13.492	4-1/4"	2-3/8"	1.704"	108.31
	89816	.5312	17/32"	13.492	5"	3-1/4"	2.766"	112.32
77821		.5315		13.500	107	60	43	110.74
	89821	.5315		13.500	127	83	70	114.84

continued →

Series 1520H, 1205H (continued)

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

3xD (1520H) EDP#	5xD (1205H) EDP#	$d \dagger$ Diameter		l_1 Overall Length	l_2 Flute Length	l_5 Max Drill Depth	LIST PRICE
		Decimal	Metric				
77826		.5469	35/64"	13.891	4-1/4"	2-3/8"	113.16
	89826	.5469	35/64"	13.891	5"	3-1/4"	117.36
77831		.5512		14.000	107	60	115.59
	89831	.5512		14.000	127	83	119.91
77836		.5625	9/16"	14.287	4-1/2"	2-1/2"	124.87
	89836	.5625	9/16"	14.287	5"	3-1/4"	129.56
77841		.5709		14.500	115	65	127.20
	89841	.5709		14.500	127	83	131.98
77846		.5781	37/64"	14.683	4-1/2"	2-1/2"	129.52
	89846	.5781	37/64"	14.683	5-1/4"	3-1/2"	134.42
77851		.5906		15.000	115	65	131.90
	89851	.5906		15.000	133	89	136.87
77856		.5938	19/32"	15.082	4-1/2"	2-1/2"	132.59
	89856	.5938	19/32"	15.082	5-1/4"	3-1/2"	137.61
77861		.6094	39/64"	15.478	4-1/2"	2-1/2"	133.24
	89861	.6094	39/64"	15.478	5-1/4"	3-1/2"	138.29
77866		.6102		15.500	115	65	133.93
	89866	.6102		15.500	133	89	139.00
77871		.6250	5/8"	15.875	4-1/2"	2-1/2"	134.59
	89871	.6250	5/8"	15.875	5-1/4"	3-1/2"	139.71
77876		.6299		16.000	115	65	137.83
	89876	.6299		16.000	133	89	143.07

