

TOLERANCES

<i>d</i>	3mm - 6mm	+0.000" -0.003" (+0.000 -0.075mm)
	1/4" - 1"	-0.001" -0.004" (-0.025 -0.100mm)

Centerless Ground

Solid Carbide Submicron Grain



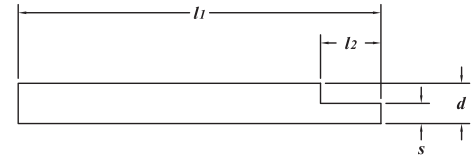
EDP#	<i>d</i> † Diameter		<i>l</i> Overall Length	1-11	12-24	25-49	50-100
	Decimal	Metric					
95010	.1181	3.00	38	1.68	1.61	1.54	1.47
53010	.1250	1/8"	3.17	1-1/2"	1.62	1.55	1.48
53020	.1250	1/8"	3.17	2"	2.84	2.71	2.59
53030	.1250	1/8"	3.17	3"	3.17	3.04	2.89
53040	.1250	1/8"	3.17	4"	5.43	5.19	4.96
53050	.1250	1/8"	3.17	6"	8.53	8.15	7.79
53060	.1250	1/8"	3.17	12"	19.19	18.36	17.52
95070	.1575	4.00	50	4.16	3.98	3.80	3.62
53070	.1875	3/16"	4.76	2"	3.59	3.43	3.28
53080	.1875	3/16"	4.76	2-1/2"	5.04	4.83	4.61
53090	.1875	3/16"	4.76	3"	7.04	6.74	6.43
53100	.1875	3/16"	4.76	4"	8.59	8.22	7.84
53110	.1875	3/16"	4.76	6"	12.82	12.26	11.71
53120	.1875	3/16"	4.76	12"	21.87	20.92	19.97
95130	.1969	5.00	65	5.39	5.15	4.92	4.68
95190	.2362	6.00	65	5.77	5.52	5.27	5.02
53130	.2500	1/4"	6.35	2"	4.75	4.54	4.34
53140	.2500	1/4"	6.35	2-1/2"	5.50	5.26	5.02
53150	.2500	1/4"	6.35	3"	8.64	8.27	7.89
53160	.2500	1/4"	6.35	4"	13.66	13.06	12.47
53170	.2500	1/4"	6.35	6"	18.34	17.53	16.74
53180	.2500	1/4"	6.35	12"	34.83	33.31	31.80
53190	.3125	5/16"	7.94	2-1/2"	8.86	8.48	8.09
53200	.3125	5/16"	7.94	3"	14.51	13.87	13.25
53210	.3125	5/16"	7.94	4"	16.58	15.86	15.13
53220	.3125	5/16"	7.94	6"	27.02	25.84	24.67
53230	.3125	5/16"	7.94	12"	45.58	43.60	41.62
95250	.3150	8.00	65	8.86	8.48	8.09	7.71
53240	.3750	3/8"	9.52	2-1/2"	11.95	11.43	10.91
53250	.3750	3/8"	9.52	3"	16.04	15.34	14.64
53260	.3750	3/8"	9.52	3-1/2"	17.12	16.37	15.63
53270	.3750	3/8"	9.52	4"	18.78	17.96	17.15
53280	.3750	3/8"	9.52	6"	31.94	30.54	29.16
53290	.3750	3/8"	9.52	12"	52.97	50.67	48.36
95320	.3937	10.00	70	13.10	12.53	11.96	11.40
53300	.4375	7/16"	11.11	2-1/2"	14.61	13.98	13.34
53310	.4375	7/16"	11.11	3"	19.15	18.31	17.48
53320	.4375	7/16"	11.11	4"	26.33	25.19	24.04
53330	.4375	7/16"	11.11	6"	38.20	36.54	34.88
53340	.4375	7/16"	11.11	12"	78.67	75.24	71.82
95380	.4724	12.00	75	20.87	19.97	19.05	18.15
53350	.5000	1/2"	12.70	3"	19.56	18.71	17.86
53360	.5000	1/2"	12.70	4"	26.98	25.80	24.63
53370	.5000	1/2"	12.70	6"	45.48	43.50	41.53
53380	.5000	1/2"	12.70	12"	101.13	96.73	92.33
53390	.6250	5/8"	15.87	3-1/2"	37.80	36.16	34.52
53400	.6250	5/8"	15.87	4"	52.48	50.20	47.91
53410	.6250	5/8"	15.87	6"	83.03	79.42	75.82
53420	.6250	5/8"	15.87	12"	176.58	168.91	161.23
95440	.6299	16.00	88	37.80	36.16	34.52	32.87
53430	.7500	3/4"	19.05	4"	56.10	53.65	51.22
53440	.7500	3/4"	19.05	6"	110.65	105.83	101.03
53450	.7500	3/4"	19.05	12"	211.70	202.50	193.29
95490	.7874	20.00	100	70.62	67.55	64.48	61.40
95530	.9843	25.00	100	88.11	84.28	80.44	76.62
53460	1.000	1"	25.40	4"	85.95	82.21	78.47
53470	1.000	1"	25.40	6"	192.07	183.72	175.36
53480	1.000	1"	25.40	12"	338.42	323.70	308.98

TOLERANCES

<i>d</i>	1/8" - 3/16"	+0.000" -0.003" (-0.000 -0.075mm)
	1/4" - 1/2"	-0.001" -0.004" (-0.025 -0.100mm)
<i>s</i>	+0.001" -0.000" (+0.025 -0.000mm) from centerline	

Centerless Ground Engraving - Split Single End

Solid Carbide Submicron Grain
 For use in engraving or single flute milling
 Ready to be finished - blank is non-cutting



BLANKS

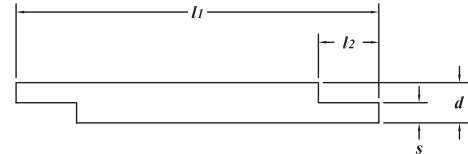
EDP#	<i>d</i> † Diameter		<i>l</i> ₁ Overall Length	<i>l</i> ₂ Split Length	<i>s</i> Split Depth	1-11	12-24	25-49	50-100	
	Decimal	Metric								
54010	.1250	1/8"	3.17	1-1/2"	3/8"	1/16"	2.96	2.84	2.70	2.58
54020	.1250	1/8"	3.17	2"	3/8"	1/16"	4.19	4.00	3.83	3.64
54030	.1250	1/8"	3.17	3"	3/8"	1/16"	4.67	4.46	4.26	4.06
54040	.1250	1/8"	3.17	4"	3/8"	1/16"	6.79	6.50	6.20	5.91
54050	.1250	1/8"	3.17	6"	3/8"	1/16"	9.91	9.48	9.05	8.62
54060	.1875	3/16"	4.76	2"	1/2"	3/32"	5.67	5.42	5.18	4.93
54070	.1875	3/16"	4.76	2-1/2"	1/2"	3/32"	7.12	6.81	6.50	6.20
54080	.1875	3/16"	4.76	3"	1/2"	3/32"	9.14	8.75	8.35	7.95
54090	.1875	3/16"	4.76	4"	1/2"	3/32"	10.67	10.20	9.74	9.28
54100	.1875	3/16"	4.76	6"	1/2"	3/32"	14.89	14.25	13.59	12.95
54110	.2500	1/4"	6.35	2"	1/2"	1/8"	7.98	7.63	7.28	6.94
54120	.2500	1/4"	6.35	2-1/2"	1/2"	1/8"	8.72	8.34	7.96	7.58
54130	.2500	1/4"	6.35	3"	1/2"	1/8"	11.89	11.37	10.86	10.34
54140	.2500	1/4"	6.35	4"	1/2"	1/8"	16.90	16.16	15.43	14.70
54150	.2500	1/4"	6.35	6"	1/2"	1/8"	21.58	20.64	19.71	18.76
54160	.3125	5/16"	7.94	2-1/2"	1/2"	5/32"	12.30	11.77	11.23	10.70
54170	.3125	5/16"	7.94	3"	1/2"	5/32"	17.96	17.18	16.40	15.62
54180	.3125	5/16"	7.94	4"	1/2"	5/32"	20.01	19.14	18.27	17.40
54190	.3125	5/16"	7.94	6"	1/2"	5/32"	30.45	29.13	27.80	26.48
54200	.3750	3/8"	9.52	2-1/2"	1/2"	3/16"	16.66	15.93	15.22	14.49
54210	.3750	3/8"	9.52	3"	1/2"	3/16"	20.73	19.82	18.93	18.02
54220	.3750	3/8"	9.52	4"	1/2"	3/16"	23.47	22.45	21.43	20.42
54230	.3750	3/8"	9.52	6"	1/2"	3/16"	36.65	35.06	33.47	31.87
54240	.4375	7/16"	11.11	2-1/2"	5/8"	7/32"	19.83	18.97	18.11	17.24
54250	.4375	7/16"	11.11	3"	5/8"	7/32"	24.35	23.29	22.22	21.17
54260	.4375	7/16"	11.11	4"	5/8"	7/32"	31.55	30.18	28.81	27.44
54270	.4375	7/16"	11.11	6"	5/8"	7/32"	43.40	41.52	39.62	37.74
54280	.5000	1/2"	12.70	3"	5/8"	1/4"	26.53	25.38	24.22	23.07
54290	.5000	1/2"	12.70	4"	5/8"	1/4"	33.96	32.48	31.00	29.53
54300	.5000	1/2"	12.70	6"	5/8"	1/4"	52.46	50.18	47.89	45.61

TOLERANCES

d	1/8" - 3/16"	+0.000" - 0.003" (-0.000 - 0.075mm)
	1/4" - 1/2"	-0.001" - 0.004" (-0.025 - 0.100mm)
s	+0.001" - 0.000" (+0.025 - 0.000mm) from centerline	

Centerless Ground Engraving - Split Double End

Solid Carbide Submicron Grain
 For use in engraving or single flute milling
 Ready to be finished - blank is non-cutting



EDP#	d1 † Diameter		l1 Overall Length	l2 Split Length	s Split Depth	1-11	12-24	25-49	50-100	
	Decimal	Metric								
55010	.1250	1/8"	3.17	1-1/2"	3/8"	1/16"	4.34	4.15	3.96	3.78
55020	.1250	1/8"	3.17	2"	3/8"	1/16"	5.53	5.29	5.05	4.82
55030	.1250	1/8"	3.17	3"	3/8"	1/16"	6.03	5.77	5.51	5.24
55040	.1250	1/8"	3.17	4"	3/8"	1/16"	8.16	7.81	7.46	7.10
55050	.1250	1/8"	3.17	6"	3/8"	1/16"	11.22	10.73	10.24	9.76
55060	.1875	3/16"	4.76	2"	1/2"	3/32"	7.76	7.43	7.08	6.75
55070	.1875	3/16"	4.76	2-1/2"	1/2"	3/32"	9.19	8.80	8.39	8.00
55080	.1875	3/16"	4.76	3"	1/2"	3/32"	11.21	10.72	10.23	9.74
55090	.1875	3/16"	4.76	4"	1/2"	3/32"	12.76	12.21	11.65	11.10
55100	.1875	3/16"	4.76	6"	1/2"	3/32"	16.98	16.24	15.51	14.77
55110	.2500	1/4"	6.35	2"	1/2"	1/8"	11.21	10.72	10.23	9.74
55120	.2500	1/4"	6.35	2-1/2"	1/2"	1/8"	11.95	11.43	10.91	10.39
55130	.2500	1/4"	6.35	3"	1/2"	1/8"	15.10	14.45	13.79	13.14
55140	.2500	1/4"	6.35	4"	1/2"	1/8"	20.11	19.24	18.37	17.49
55150	.2500	1/4"	6.35	6"	1/2"	1/8"	24.79	23.71	22.64	21.56
55160	.3125	5/16"	7.94	2-1/2"	1/2"	5/32"	15.76	15.07	14.38	13.70
55170	.3125	5/16"	7.94	3"	1/2"	5/32"	21.38	20.46	19.52	18.60
55180	.3125	5/16"	7.94	4"	1/2"	5/32"	23.46	22.44	21.42	20.40
55190	.3125	5/16"	7.94	6"	1/2"	5/32"	33.87	32.40	30.93	29.45
55200	.3750	3/8"	9.52	2-1/2"	1/2"	3/16"	21.34	20.42	19.49	18.55
55210	.3750	3/8"	9.52	3"	1/2"	3/16"	25.42	24.32	23.20	22.10
55220	.3750	3/8"	9.52	4"	1/2"	3/16"	28.15	26.93	25.71	24.48
55230	.3750	3/8"	9.52	6"	1/2"	3/16"	41.32	39.52	37.73	35.93
55240	.4375	7/16"	11.11	2-1/2"	5/8"	7/32"	25.03	23.94	22.86	21.77
55250	.4375	7/16"	11.11	3"	5/8"	7/32"	29.58	28.29	27.01	25.72
55260	.4375	7/16"	11.11	4"	5/8"	7/32"	36.75	35.15	33.56	31.96
55270	.4375	7/16"	11.11	6"	5/8"	7/32"	48.61	46.50	44.39	42.27
55280	.5000	1/2"	12.70	3"	5/8"	1/4"	33.52	32.06	30.61	29.15
55290	.5000	1/2"	12.70	4"	5/8"	1/4"	40.91	39.14	37.36	35.58
55300	.5000	1/2"	12.70	6"	5/8"	1/4"	59.45	56.86	54.28	51.69