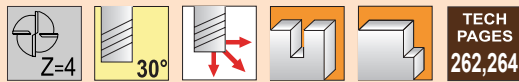


$d_1$	+0.00" -0.002" (+0.000 -0.050mm)
$d_2$	h6



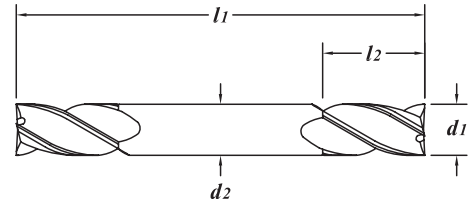
### Standard Length - Double End

Solid submicron grain carbide end mill - center cutting

Extremely versatile

TiAlN Coating - page 217

Stub Length - page 190



MATERIAL HARDNESS (Rc)

70

35

0

(430M/450M) EDP#	$d_1$ † Diameter		$d_2$ Shank Diameter	$l_1$ Overall Length	$l_2$ Flute Length	1-11	12-24	25-49	50-100	
	Decimal	Metric								
30010	.0312	1/32"	0.792	1/8"	2"	3/32"	21.87	20.92	19.97	19.02
30510	.0394		1.000	3.0	50	4	23.02	22.02	21.02	20.02
30020	.0469	3/64"	1.191	1/8"	2"	1/8"	21.87	20.92	19.97	19.02
30520	.0591		1.500	3.0	50	5	23.02	22.02	21.02	20.02
30030	.0625	1/16"	1.588	1/8"	2"	3/16"	21.87	20.92	19.97	19.02
30530	.0787		2.000	3.0	50	6	23.02	22.02	21.02	20.02
30040	.0938	3/32"	2.383	1/8"	2"	1/4"	21.87	20.92	19.97	19.02
30540	.0984		2.500	3.0	50	7	23.02	22.02	21.02	20.02
30550	.1181		3.000	3.0	50	8	16.63	15.91	15.18	14.46
30050	.1250	1/8"	3.175	1/8"	2"	3/8"	15.80	15.11	14.43	13.74
30560	.1378		3.500	4.0	65	9.5	23.77	22.74	21.70	20.67
30060	.1562	5/32"	3.967	3/16"	2-1/2"	7/16"	22.59	21.60	20.62	19.64
30570	.1575		4.000	4.0	65	10	19.90	19.03	18.17	17.30
30580	.1772		4.500	5.0	65	12	26.47	25.32	24.17	23.02
30070	.1875	3/16"	4.763	3/16"	2-1/2"	1/2"	18.89	18.07	17.25	16.43
30590	.1969		5.000	5.0	65	12	23.08	22.08	21.07	20.07
30080	.2188	7/32"	5.558	1/4"	2-1/2"	9/16"	25.15	24.06	22.96	21.87
30600	.2362		6.000	6.0	65	16	24.10	23.06	22.01	20.96
30090	.2500	1/4"	6.350	1/4"	2-1/2"	5/8"	22.91	21.91	20.92	19.92
30610	.2756		7.000	7.0	88	19	30.30	28.99	27.67	26.35
30100	.3125	5/16"	7.938	5/16"	3-1/2"	3/4"	29.91	28.61	27.31	26.01
30620	.3150		8.000	8.0	88	19	31.49	30.12	28.75	27.38
30630	.3543		9.000	9.0	88	19	40.66	38.90	37.13	35.36
30110	.3750	3/8"	9.525	3/8"	3-1/2"	3/4"	38.63	36.95	35.27	33.59
30640	.3937		10.000	10.0	88	19	54.05	51.70	49.35	47.00
30650	.4331		11.000	11.0	100	22	57.78	55.26	52.75	50.24
30120	.4375	7/16"	11.113	7/16"	4"	7/8"	54.90	52.51	50.13	47.74
30660	.4724		12.000	12.0	100	25	64.95	62.13	59.30	56.48
30130	.5000	1/2"	12.700	1/2"	4"	1"	61.69	59.00	56.32	53.64