

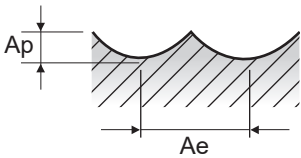
YG X5070 END MILLS

RECOMMENDED CUTTING CONDITIONS

G8A43 SERIES 2 FLUTE BALL NOSE

ISO	VDI 3323	Material Description	HRc	Ae	Ap	Parameter	Diameter (Ø)								
							1/32	1/16	3/32	1/8	3/16	1/4	5/16	3/8	1/2
P	5	Non-alloy steel	32	0.05D	0.02D	SFM (vc)	410	815	1220	1085	915	910	910	915	910
						IPT (fz)	.0019	.0023	.0023	.0036	.0061	.0069	.0074	.0078	.0083
						RPM	50000	49700	49700	33100	18600	13900	11100	9300	6950
						IPM (feed)	189	224	224	236	228	191	165	146	116
	8-9	Low alloy steel	32-38	0.05D	0.02D	SFM (vc)	410	815	1220	1085	915	910	910	915	910
						IPT (fz)	.0019	.0023	.0023	.0036	.0061	.0069	.0074	.0078	.0083
						RPM	50000	49700	49700	33100	18600	13900	11100	9300	6950
						IPM (feed)	189	224	224	236	228	191	165	146	116
	11.1	High alloyed steel, and tool steel	35	0.05D	0.02D	SFM (vc)	410	815	1220	1085	915	910	910	915	910
						IPT (fz)	.0019	.0023	.0023	.0036	.0061	.0069	.0074	.0078	.0083
						RPM	50000	49700	49700	33100	18600	13900	11100	9300	6950
						IPM (feed)	189	224	224	236	228	191	165	146	116
	11.2	High alloyed steel, and tool steel	44	0.05D	0.02D	SFM (vc)	410	780	1175	1040	875	875	875	875	875
						IPT (fz)	.0017	.0020	.0020	.0033	.0054	.0060	.0064	.0069	.0073
						RPM	50000	47800	47800	31800	17800	13400	10700	8900	6680
						IPM (feed)	165	189	189	209	193	161	138	122	98
H	38.1	Hardened steel	45-49	0.05D	0.02D	SFM (vc)	410	780	1175	1040	875	875	875	875	875
						IPT (fz)	.0017	.0020	.0020	.0033	.0054	.0060	.0064	.0069	.0073
						RPM	50000	47800	47800	31800	17800	13400	10700	8900	6680
						IPM (feed)	165	189	189	209	193	161	138	122	98
	38.2	Hardened steel	50-55	0.05D	0.02D	SFM (vc)	370	655	980	865	735	720	735	735	735
						IPT (fz)	.0017	.0020	.0020	.0030	.0049	.0055	.0059	.0063	.0067
						RPM	45000	40000	40000	26500	15000	11000	9000	7500	5600
						IPM (feed)	150	158	158	158	148	122	106	95	75
	39.1	Hardened steel	56-60	0.05D	0.02D	SFM (vc)	325	575	860	770	665	655	655	650	655
						IPT (fz)	.0015	.0018	.0018	.0026	.0044	.0049	.0053	.0057	.0061
						RPM	40000	35000	35000	23500	13500	10000	8000	6600	5000
						IPM (feed)	118	124	124	124	120	98	85	75	61
	39.2	Hardened steel	61-65	0.05D	0.02D	SFM (vc)	285	525	785	685	565	575	575	570	575
						IPT (fz)	.0015	.0017	.0017	.0026	.0043	.0048	.0052	.0056	.0056
						RPM	35000	32000	32000	21000	11500	8800	7000	5800	4400
						IPM (feed)	102	110	110	110	100	85	73	65	49
39.3	Hardened steel	66-70	0.05D	0.02D	SFM (vc)	285	465	700	620	515	525	530	520	525	
					IPT (fz)	.0013	.0016	.0016	.0024	.0040	.0043	.0047	.0051	.0051	
					RPM	35000	28500	28500	19000	10500	8000	6500	5300	4000	
					IPM (feed)	91	91	91	91	83	69	61	54	41	
40	Chilled Cast Iron	42	0.05D	0.02D	SFM (vc)	410	780	1175	1040	875	875	875	875	875	
					IPT (fz)	.0017	.0020	.0020	.0033	.0054	.0060	.0064	.0069	.0073	
					RPM	50000	47800	47800	31800	17800	13400	10700	8900	6680	
					IPM (feed)	165	189	189	209	193	161	138	122	98	
41	Hardened Cast Iron	55	0.05D	0.02D	SFM (vc)	370	655	980	865	735	720	735	735	735	
					IPT (fz)	.0017	.0020	.0020	.0030	.0049	.0055	.0059	.0063	.0067	
					RPM	45000	40000	40000	26500	15000	11000	9000	7500	5600	
					IPM (feed)	150	158	158	158	148	122	106	95	75	

SFM = Surface Feet per Minute
 RPM = Revolutions Per Minute
 IPT = Inches Per Tooth
 IPM = Inches Per Minute
 Ap : Inch (Axial Depth of Cut)
 Ae : Inch (Radial Depth of Cut)



HSS

CBN END MILLS

i-Xmill END MILLS

i-SMART MODULAR END MILLS

X5070 END MILLS

4G MILL END MILLS

X-POWER PRO END MILLS

TitaNox-POWER END MILLS

JET-POWER END MILLS

V7 PLUS A END MILLS

V7 MILL INOX

ALU-POWER HPC END MILLS

ALU-POWER END MILLS

D-POWER GRAPHITE END MILLS

STANDARD CARBIDE

ONLY ONE COATED PM60 END MILLS

SINE-POWER

TANK-POWER END MILLS

STANDARD COBALT & HSS

TECHNICAL DATA