

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)

GM810 SERIES 2 FLUTE - SLOTTING

ISO	VDI 3323	Material Description	Ae	Ap	Parameter	Diameter (Ø)				
						0.4	0.8	1.0	1.2	1.5
P	5	Non-alloy steel	1.0D	D<1:0.15D D≥1:0.25D	SFM(Vc) IPT(fz) RPM IPM(FEED)	130 .0001 31530 5	215 .0001 26080 6	230 .0002 22320 7	215 .0002 17380 7	195 .0002 12610 6
	8-9	Low alloy steel	1.0D	D<1:0.15D D≥1:0.25D	SFM(Vc) IPT(fz) RPM IPM(FEED)	130 .0001 31530 5	215 .0001 26080 6	230 .0002 22320 7	215 .0002 17380 7	195 .0002 12610 6
	11.1 - 11.2	High alloyed steel, and tool steel	1.0D	D<1:0.15D D≥1:0.25D	SFM(Vc) IPT(fz) RPM IPM(FEED)	130 .0001 31530 5	215 .0001 26080 6	230 .0002 22320 7	215 .0002 17380 7	195 .0002 12610 6
H	38.1 - 38.2	Hardened steel	1.0D	D<1:0.02D D≥1:0.05D	SFM(Vc) IPT(fz) RPM IPM(FEED)	100 .00004 24260 2	165 .0001 20010 3	165 .0001 16010 4	165 .0001 13340 3	150 .0002 9700 3
	40	Chilled Cast Iron	1.0D	D<1:0.15D D≥1:0.25D	SFM(Vc) IPT(fz) RPM IPM(FEED)	130 .0001 31530 5	215 .0001 26080 6	230 .0002 22320 7	215 .0002 17380 7	195 .0002 12610 6
	41	Hardened Cast Iron	1.0D	D<1:0.02D D≥1:0.05D	SFM(Vc) IPT(fz) RPM IPM(FEED)	100 .00004 24260 2	165 .0001 20010 3	165 .0001 16010 4	165 .0001 13340 3	150 .0002 9700 3

ISO	VDI 3323	Material Description	Ae	Ap	Parameter	Diameter (Ø)									
						2.0	3.0	4.0	5.0	6.0	8.0	10.0	12.0	16.0	20.0
P	1-4	Non-alloy steel	1.0D	D≤3:0.2D D>3:0.5D	SFM(Vc)	215	245	280	295	310	310	295	310	330	310
					IPT(fz)	.0004	.0006	.0010	.0013	.0015	.0023	.0025	.0025	.0024	.0025
	RPM	10430	7920	6790	5730	5010	3760	2860	2510	2000	1500				
	IPM(FEED)	8	9	13	14	16	17	14	13	10	8				
	5	1.0D	D≤3:0.2D D>3:0.5D	SFM(Vc)	150	150	165	180	180	180	180	180	180	195	195
				IPT(fz)	.0004	.0006	.0009	.0013	.0016	.0020	.0020	.0019	.0020	.0018	
RPM	7280	4850	4000	3490	2910	2180	1750	1460	1180	950					
IPM(FEED)	6	6	8	9	9	9	7	6	5	4					
6-7	1.0D	D≤3:0.2D D>3:0.5D	SFM(Vc)	215	245	280	295	310	310	295	310	330	310		
			IPT(fz)	.0004	.0006	.0010	.0013	.0015	.0023	.0025	.0025	.0024	.0025		
RPM	10430	7920	6790	5730	5010	3760	2860	2510	2000	1500					
IPM(FEED)	8	9	13	14	16	17	14	13	10	8					
8-9	1.0D	D≤3:0.2D D>3:0.5D	SFM(Vc)	150	150	165	180	180	180	180	180	195	195		
			IPT(fz)	.0004	.0006	.0009	.0013	.0016	.0020	.0020	.0019	.0020	.0018		
RPM	7280	4850	4000	3490	2910	2180	1750	1460	1180	950					
IPM(FEED)	6	6	8	9	9	9	7	6	5	4					
10	1.0D	D≤3:0.2D D>3:0.5D	SFM(Vc)	215	245	280	295	310	310	295	310	330	310		
			IPT(fz)	.0004	.0006	.0010	.0013	.0015	.0023	.0025	.0025	.0024	.0025		
RPM	10430	7920	6790	5730	5010	3760	2860	2510	2000	1500					
IPM(FEED)	8	9	13	14	16	17	14	13	10	8					
11.1 - 11.2	1.0D	D≤3:0.2D D>3:0.5D	SFM(Vc)	150	150	165	180	180	180	180	180	195	195		
			IPT(fz)	.0004	.0006	.0009	.0013	.0016	.0020	.0020	.0019	.0020	.0018		
RPM	7280	4850	4000	3490	2910	2180	1750	1460	1180	950					
IPM(FEED)	6	6	8	9	9	9	7	6	5	4					
M	14.1	Stainless steel	1.0D	D≤3:0.2D D>3:0.5D	SFM(Vc) IPT(fz) RPM IPM(FEED)	115 .0003 5580 4	130 .0006 4210 5	150 .0009 3640 7	150 .0012 2910 7	165 .0015 2670 8	150 .0021 1820 8	150 .0023 1460 7	165 .0023 1210 6	150 .0026 1000 5	
K	15-20	Grey cast iron Nodular cast iron Malleable cast iron	1.0D	D≤3:0.2D D>3:0.5D	SFM(Vc) IPT(fz) RPM IPM(FEED)	215 .0004 10430 8	245 .0006 7920 9	280 .0010 6790 13	295 .0013 5730 14	310 .0015 5010 16	310 .0023 3760 17	295 .0025 2860 14	310 .0025 2510 13	330 .0024 2000 10	310 .0025 1500 8
H	38.1 - 38.2	Hardened steel	1.0D	0.05D	SFM(Vc) IPT(fz) RPM IPM(FEED)	100 .0002 4850 2	100 .0003 3230 2	115 .0004 2790 2	115 .0005 2230 2	115 .0007 1860 3	130 .0011 1580 4	130 .0011 1260 3	130 .0011 1050 2	130 .0011 790 2	130 .0011 630 1
	40	Chilled Cast Iron	1.0D	D≤3:0.2D D>3:0.5D	SFM(Vc) IPT(fz) RPM IPM(FEED)	150 .0004 7280 6	150 .0006 4850 6	165 .0009 4000 8	180 .0013 3490 9	180 .0016 2910 9	180 .0020 2180 9	180 .0020 1750 7	180 .0019 1460 6	195 .0020 1180 5	195 .0018 950 4
	41	Hardened Cast Iron	1.0D	0.05D	SFM(Vc) IPT(fz) RPM IPM(FEED)	100 .0002 4850 2	100 .0003 3230 2	115 .0004 2790 2	115 .0005 2230 2	115 .0007 1860 3	130 .0011 1580 4	130 .0011 1260 3	130 .0011 1050 2	130 .0011 790 2	130 .0011 630 1