

■ GOMill GP • 4BN..IS-IR • 4 Flute • Ball Nose • Short • Regular

Solid End Milling

		Side Milling (A) and Slotting (B)		TiAlN			Recommended feed per tooth (IPT = inch/th) for side milling (A). For slotting (B), reduce IPT by 20%.															
		A		B		Cutting Speed – vc SFM			D1 – Diameter													
Material Group		ap	ae	ap	min	max	inch	1/32	1/16	5/64	3/32	1/8	3/16	1/4	5/16	3/8	1/2	5/8	3/4	1		
								.0313	.0625	.0781	.0938	.1250	.1875	.2500	.3125	.3750	.5000	.6250	.7500	1.0000		
P	0	Ap1 max	0.1 x D	0.5 x D	490	–	660	IPT	.00021	.00043	.00054	.00065	.00088	.00135	.00183	.00234	.00273	.00340	.00395	.00438	.00489	
	1	Ap1 max	0.1 x D	0.5 x D	490	–	660	IPT	.00021	.00043	.00054	.00065	.00088	.00135	.00183	.00234	.00273	.00340	.00395	.00438	.00489	
	2	Ap1 max	0.1 x D	0.5 x D	460	–	620	IPT	.00021	.00043	.00054	.00065	.00088	.00135	.00183	.00234	.00273	.00340	.00395	.00438	.00489	
	3	Ap1 max	0.1 x D	0.5 x D	390	–	520	IPT	.00017	.00035	.00044	.00053	.00072	.00111	.00152	.00195	.00229	.00289	.00341	.00386	.00451	
M	1	Ap1 max	0.1 x D	0.5 x D	300	–	490	IPT	.00016	.00033	.00041	.00049	.00066	.00101	.00138	.00175	.00204	.00257	.00301	.00337	.00386	
	2	Ap1 max	0.1 x D	0.5 x D	200	–	260	IPT	.00015	.00029	.00037	.00044	.00059	.00091	.00123	.00156	.00183	.00231	.00273	.00309	.00361	
K	1	Ap1 max	0.1 x D	0.5 x D	390	–	490	IPT	.00021	.00043	.00054	.00065	.00088	.00135	.00183	.00234	.00273	.00340	.00395	.00438	.00489	
	2	Ap1 max	0.1 x D	0.5 x D	360	–	460	IPT	.00017	.00035	.00044	.00053	.00072	.00111	.00152	.00195	.00229	.00289	.00341	.00386	.00451	
N	1	Ap1 max	0.1 x D	0.5 x D	820	–	3250	IPT	.00031	.00063	.00078	.00094	.00125	.00188	.00250	.00313	.00375	.00500	.00625	.00750	.01000	
	2	Ap1 max	0.1 x D	0.5 x D	820	–	2450	IPT	.00025	.00050	.00062	.00075	.00100	.00150	.00200	.00250	.00300	.00400	.00500	.00600	.00800	
	3	Ap1 max	0.1 x D	0.5 x D	820	–	2450	IPT	.00028	.00056	.00070	.00084	.00113	.00169	.00225	.00281	.00338	.00450	.00563	.00675	.00900	

NOTE: Lower value of cutting speed is used for high stock removal applications or for higher hardness (machinability) within group.  
 Higher value of cutting speed is used for finishing applications or for lower hardness (machinability) within group.  
 Above parameters are based on ideal conditions. For smaller taper machining centers, please adjust parameters accordingly on >1/2" diameter.

■ GOMill GP • 4BN..IL-IX • 4 Flute • Ball Nose • Long • Extra Long

		Side Milling (A)		TiAlN			Recommended feed per tooth (IPT = inch/th) for side milling (A).													
		A		Cutting Speed – vc SFM			D1 – Diameter													
Material Group		ap	ae	min	max	inch	3/32	1/8	3/16	1/4	5/16	3/8	1/2	5/8	3/4	1				
							.0938	.1250	.1875	.2500	.3125	.3750	.5000	.6250	.7500	1.0000				
P	0	Ap1 max	0.1 x D	490	–	660	IPT	.00065	.00088	.00135	.00183	.00234	.00273	.00340	.00395	.00438	.00489			
	1	Ap1 max	0.1 x D	490	–	660	IPT	.00065	.00088	.00135	.00183	.00234	.00273	.00340	.00395	.00438	.00489			
	2	Ap1 max	0.1 x D	460	–	620	IPT	.00065	.00088	.00135	.00183	.00234	.00273	.00340	.00395	.00438	.00489			
	3	Ap1 max	0.1 x D	390	–	520	IPT	.00053	.00072	.00111	.00152	.00195	.00229	.00289	.00341	.00386	.00451			
M	1	Ap1 max	0.1 x D	300	–	490	IPT	.00049	.00066	.00101	.00138	.00175	.00204	.00257	.00301	.00337	.00386			
	2	Ap1 max	0.1 x D	200	–	260	IPT	.00044	.00059	.00091	.00123	.00156	.00183	.00231	.00273	.00309	.00361			
K	1	Ap1 max	0.1 x D	390	–	490	IPT	.00065	.00088	.00135	.00183	.00234	.00273	.00340	.00395	.00438	.00489			
	2	Ap1 max	0.1 x D	360	–	460	IPT	.00053	.00072	.00111	.00152	.00195	.00229	.00289	.00341	.00386	.00451			
N	1	Ap1 max	0.1 x D	820	–	3250	IPT	.00094	.00125	.00188	.00250	.00313	.00375	.00500	.00625	.00750	.01000			
	2	Ap1 max	0.1 x D	820	–	2450	IPT	.00075	.00100	.00150	.00200	.00250	.00300	.00400	.00500	.00600	.00800			
	3	Ap1 max	0.1 x D	820	–	2450	IPT	.00084	.00113	.00169	.00225	.00281	.00338	.00450	.00563	.00675	.00900			

NOTE: Lower value of cutting speed is used for high stock removal applications or for higher hardness (machinability) within group.  
 Higher value of cutting speed is used for finishing applications or for lower hardness (machinability) within group.  
 Above parameters are based on ideal conditions. For smaller taper machining centers, please adjust parameters accordingly on >1/2" diameter.