

Speed & Feed Guide

Series 2100, 2105, 2115, 2117

438 | 4 FL | SQ, CR, BN, CB | PYSTL

	Material	Axial ↓	Radial →	SFM	1/8		1/4		3/8		1/2		5/8		3/4	
					RPM	IPM	RPM	IPM	RPM	IPM	RPM	IPM	RPM	IPM	RPM	IPM
P	Carbon Steel 10XX, 11XX, 12XX, 13XX	1 x D	1 x D	220	6723	13	3362	13	2241	16	1681	17	1345	16	1121	15
		1.25 x D	.3 x D	264	8068	19	4034	19	2689	23	2017	24	1614	23	1345	21
		1.5 X D	.1 x D	343	10488	42	5244	42	3496	50	2622	53	2098	51	1748	47
	Alloy Steel 4140, 8620	1 x D	1 x D	180	5501	21	2750	16	1834	13	1375	13	1100	13	917	12
		1.25 x D	.3 x D	225	6876	31	3438	24	2292	19	1719	20	1375	19	1146	17
		1.5 X D	.1 x D	270	8251	63	4126	47	2750	38	2063	40	1650	38	1375	35
	Tool Steel A2, A3, D2, H11, H13	1 x D	.5 x D	180	5501	10	2750	10	1834	13	1375	13	1100	13	917	12
		1.25 x D	.3 x D	225	6876	16	3438	16	2292	19	1719	20	1375	19	1146	17
		1.5 X D	.1 x D	270	8251	31	4126	31	2750	38	2063	40	1650	38	1375	35
M	SS 300 & 400 Series 303, 304, 316, 420, 416	.75 x D	1 x D	140	4278	7	2139	7	1426	8	1070	9	856	8	713	8
		1.25 x D	.3 x D	185	5654	11	2827	11	1885	13	1413	14	1131	13	942	12
		1.5 x D	.1 x D	230	7039	23	3519	23	2346	28	1760	29	1408	28	1173	25
	Precipitation SS 15-5, 16-6, 17-4, 17-5	0.5	1 x D	115	3514	5	1757	5	1171	7	879	7	703	7	586	6
		1.25 x D	.3 x D	180	5501	10	2750	10	1834	12	1375	13	1100	12	917	11
		1.5 x D	.1 x D	250	7640	24	3820	24	2547	28	1910	30	1528	29	1273	26
K	Cast Iron - Grey GG-10 to GG-40	1 x D	1 x D	100	3056	6	1528	6	1019	7	764	7	611	7	509	6
		1.25 x D	.3 x D	125	3820	8	1910	8	1273	10	955	10	764	10	637	9
		1.5 X D	.1 x D	163	4966	18	2483	18	1655	22	1242	23	993	22	828	20
	Cast Iron- Ductile GGG-40, to GGG-70	.75 x D	1 x D	155	4737	8	2368	8	1579	10	1184	10	947	10	789	9
		1.25 x D	.3 x D	180	5501	11	2750	11	1834	14	1375	14	1100	14	917	13
		1.5 x D	.1 x D	216	6601	23	3300	23	2200	27	1650	29	1320	27	1100	25
S	High Temp Alloys Inconel 718, Hastalloy, Waspalloy, A286, CoCr	.25 x D	.4 x D	70	2139	3	1070	3	713	4	535	4	428	4	357	3
		1.25 x D	.2 x D	80	2445	4	1222	4	815	5	611	5	489	5	407	5
		1.5 x D	.07 x D	125	3820	11	1910	11	1273	13	955	14	764	14	637	12
	Titanium Alloy Ti-6Al4V Grades (5-38)	0.5	1 x D	180	5501	8	2750	8	1834	9	1375	10	1100	9	917	9
		1.25 x D	.3 x D	225	6876	12	3438	12	2292	14	1719	15	1375	14	1146	13
		1.5 x D	.1 x D	360	11002	31	5501	31	3667	37	2750	39	2200	37	1834	34