

Material Group	Group No	Material Examples*	Brinell hardness	d.o.c [mm]		feed [mm/tooth]		V _c [m/min]	
				min	max	min	max	min	max
Low Carbon Steel	1	Ck15, Ck45 1020, 1045	150	0.5	12	0.15	0.25	180	300
			180		12		0.25		260
			210		12		0.25		220
Alloy Steel	2	42 CrMo 4 St 50-2 Ck60 1060 4140	180	0.5	7	0.12	0.23	130	200
			230		7		0.23		180
			280	0.5	7	0.12	0.22	100	160
			320		7		0.22		140
High Alloy Steel	3	X40 CrMoV 5 1 H 13 40 NiCrMo 6 4340 S 2-10-1-8 HSS M42	220	0.5	7	0.12	0.18	90	130
			280		7		0.18		120
			320	0.5	7	0.12	0.18	90	110
			350		7		0.18		100
			400	0.5	5	0.1	0.18	40	80
			480		3		0.16		70
			550		1.5		0.14		60
Austenitic Stainless Steel	4 5 6	X5 CrNi 18 9 304 X2 CrNiMo 17 2 2 316 X6 CrNiMoTi 17 12 2 316 Ti Duplex / Nitronic	210 to 250	TPUN inserts are not recommended for Stainless Steel					
			230 to 270						

Ferritic Stainless Steel	7	X8 Cr 7 430	Annealed	TPUN inserts are not recommended for Exotic materials					
Martensitic Stainless Steel	8	X15 Cr 13 410	Annealed Treated						
Grey Cast Iron	9	GG 20	140 to 230	0.5	12	0.15	0.25	150	240
		GG 25							220
		GG 30							190
Nodular Cast Iron	10	GGG 40	210	0.5	12	0.12	0.21	100	200
		GGG 50							160
		GGG 70							130
		G-X260NiCr42							450
Nickel Based Alloys	11	Inconel 625	-----	TPUN inserts are not recommended for Exotic materials					
		Inconel 718							
		Hastelloy C							
Titanium Based Alloys	12	TiAl 6 V4	-----	TPUN inserts are not recommended for Exotic materials					
		T40							

TPUN

