

# CCMT 2(1.5)1 NN LT 10 & LT 1000

## Speeds & Feeds

Material Group	Gr. N°	VDI Group	Material Examples*	Hardness	D.O.C. [inch]		Feed [inch/rev]		Amax	V <sub>c</sub> [sfm]		Suggested Starting Parameters			
					min	max	min	max		min	max	D.O.C.	Feed	V <sub>c</sub>	
Steel	Non-alloyed	1	C35, Ck45, 1020,	125 HB	0.008	0.083	0.003	0.008	0.0006	590	1080	0.039	0.007	980	
		2	1045, 1060,	190 HB		0.069		0.007	0.0005		910			850	
		3	28Mn6	250 HB		0.069		0.007	0.0005		820			780	
	Low alloyed	2	6	42CrMo4, St50, Ck60, 4140, 4340, 100Cr6	180 HB	0.008	0.069	0.003	0.007	0.0005	390	910	0.039	0.006	850
			4,6		230 HB		0.069		0.007	0.0005		820			780
			5,7		280 HB		0.055		0.006	0.0004		680			650
			8		350 HB		0.055		0.006	0.0003		590			590
	High alloyed	3	10	X40CrMoV5, H13, M42, D3, S6-5-2, 12Ni19	220 HB	0.008	0.069	0.003	0.006	0.0004	220	620	0.039	0.005	590
			10		280 HB		0.069		0.005	0.0004		490			450
			11		320 HB		0.055		0.005	0.0003		420			390
			11		350 HB		0.055		0.005	0.0002		360			360
	Stainless Steel	Austenitic	4	304, 316, X5CrNi18-9	180 HB	0.008	0.069	0.003	0.006	0.0003	550	880	0.039	0.005	850
14			240 HB		0.069		0.006		0.0002	520		720			680
Duplex		5	X2CrNiN23-4, S31500	290 HB	0.008	0.055	0.003	0.005	0.0002	260	490	0.039	0.005	450	
		14		310 HB		0.055		0.005			220			450	450
Ferritic & Martensitic		6	410, X6Cr17, 17-4 PH, 430	200 HB	0.008	0.069	0.003	0.006	0.0003	550	820	0.039	0.006	780	
				13		42 HRC		0.055	0.005		0.0002			390	620
Cast Iron	Grey	7	GG20, GG40, EN-GJL-250, No30B	150 HB	0.008	0.083	0.002	0.007	0.0006	550	820	0.039	0.007	780	
				200 HB		0.083		0.007			750			720	
				250 HB		0.083		0.007			490			680	650
	Malleable & Nodular	8	GGG40, GGG70, 50005	150 HB	0.008	0.069	0.002	0.006	0.0005	390	820	0.039	0.006	780	
				200 HB		0.069		0.006	0.0004		750			720	
				250 HB		0.069		0.006	0.0004		620			590	
High Temp. Alloys	Fe, Ni & Co based	9	31,32	Incoloy 800	240 HB	0.008	0.055	0.005	0.0002	80	160	0.039	0.005	130	
			33	Inconel 700	250 HB		0.055	0.005		80	160			130	
			34	Stellite 21	350 HB		0.055	0.005		70	140			110	
	Ti based	10	TiAl6V4 T40	-	0.008	0.055	0.003	0.005	0.0003	140	210	0.039	0.006	190	
				-		0.055		0.005	0.0002	110	190			160	
	Hardened Mat.	Steel	11	X100CrMo13, 440C, G-X260NiCr42	45 HRC	0.008	0.050	0.001	0.004	0.0002	160	320	0.030	0.004	290
50 HRC					0.041		0.003		0.0002	130	290	260			
55 HRC					0.039		0.003		0.0001	130	260	220			
Chilled Cast Iron		40	Ni-Hard 2	400 HB	0.008	0.044	0.001	0.004	0.0002	130	190	0.024	0.004	160	
White Cast Iron		41	G-X300CrMo15	55 HRC	0.008	0.039	0.001	0.003	0.0001	90	160	0.020	0.003	130	
NF	Al (>8%Si)	12	25	AlSi12	130 HB	0.008	0.110	0.003	0.010	0.0007	650	1310	0.039	0.008	1140



(800) 597-3921 or (317) 803-8000 for Application Support.  
For additional suggested Speeds & Feeds: <http://delivr.com/1kppm>

