

Insert designation	Grade	l	s	r	Catalog Nr.	Page	DNMG
DNMG 110404 NN	LT 10	11	4,76	0,4	T0000066	40	-
DNMG 110408 NN	LT 10	11	4,76	0,8	T0000675	41	
DNMG 150404 NN	LT 10	15	4,76	0,4	T0000476	42	
DNMG 150408 NN	LT 10	15	4,76	0,8	T0000475	43	
DNMG 150412 NN	LT 10	15	4,76	1,2	T0001021	44	
DNMG 150604 NN	LT 10	15	6,35	0,4	T0000583	45	
DNMG 150608 NN	LT 10	15	6,35	0,8	T0000067	46	
DNMG 150612 NN	LT 10	15	6,35	1,2	T0000672	47	

	Application Guide	Super Finishing	Finishing	Semi Finishing	Roughing	Interrupted Cut
DNMG 110404 NN						
DNMG 110408 NN						
DNMG 150404 NN						
DNMG 150408 NN						
DNMG 150412 NN						
DNMG 150604 NN						
DNMG 150608 NN						
DNMG 150612 NN						

1 Not Recommended 2 Acceptable 3 Recommended 4 Excellent

Stainless Steel
Vc

Productivity G Vc

NN All Purpose Chipbreaker Machining Recommendation Guide - Please see Pg. 8

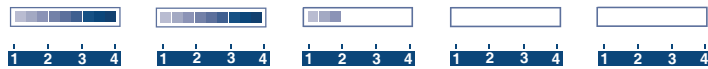
55° Diamond shape inserts. Suitable for roughing complex shapes operations such as Profiling, Copying and Finishing turning operations.



Material Group	Group No	Material Examples*	Brinell hardness	d.o.c [mm]		feed [mm/rev]		A max [mm ²]	V _c [m/min]		Optimal cutting conditions		
				min	max	min	max		min	max	d.o.c	feed	
Low Carbon Steel	1	Ck15, Ck45 1020, 1045	150	0.20	3.0	0.11	0.23	0.60	180	350	2.0	0.18	
			180		2.5		0.20			0.48			280
			210		2.5		0.18			0.48			250
Alloy Steel	2	42 CrMo 4 St 50-2 Ck60 1060 4140	180	0.20	2.5	0.11	0.20	0.48	120	280	2.0	0.15	
			230		2.5		0.20			0.40			250
			280		2.0	0.18	0.40	210					
			320		2.0	0.16	0.32	180					
High Alloy Steel	3	X40 CrMoV 5 1 H 13 40 NiCrMo 6 4340 S 2-10-1-8 HSS M42	220	0.20	2.5	0.09	0.18	0.40	70	190	2.0	0.12	
			280		2.5		0.16			0.40			150
			320		2.0		0.14			0.28			130
			350		2.0		0.14			0.24			100
			400	0.20	1.8	0.05	0.12	0.20	50	90	1.7	0.11	
			480		1.5		0.10	0.17	40	80	1.4	0.09	
550	1.4	0.08	0.13	30	70	1.2	0.07						
Austenitic Stainless Steel	4	X5 CrNi 18 9 304	210 to 250	0.20	2.5	0.10	0.18	0.32	170	270	2.0	0.15	
	5	X2 CrNiMo 17 2 2 316	230 to 270		2.0	0.09	0.16	0.24	160	210	2.0	0.12	
	6	X6 CrNiMoTi 17 12 2 316 Ti Duplex / Nitronic	-----		2.0	0.09	0.14	0.20	70	150	2.0	0.12	
Ferritic Stainless Steel	7	X8 Cr 7 430	Annealed	0.20	2.0	0.11	0.18	0.28	170	250	2.0	0.15	
Martensitic Stainless Steel	8	X15 Cr 13 410	Annealed Treated	0.20	2.0	0.11	0.18	0.28	170 120	250 190	2.0	0.12	
Grey Cast Iron	9	GG 20	140 to 230	0.20	3.0	0.08	0.20	0.64	170	250	2.0	0.18	
		GG 25						0.60		230			
		GG 30						0.60		210			
Nodular Cast Iron	10	GGG 40	210	0.20	2.5	0.08	0.18	0.48	120	230	2.0	0.15	
		GGG 50	260					0.40		190			
		GGG 70	310					0.40		150			
		G-X260NiCr42	450					0.20		1.5			0.05
Nickel Based Alloys	11	Inconel 625	-----	0.20	2.0	0.10	0.16	0.24	25	35	2.0	0.12	
		Inconel 718	-----					0.24	28	40			
		Hastelloy C	-----					0.28	40	65			
Titanium Based Alloys	12	TiAl 6 V4	-----	0.20	2.0	0.09	0.16	0.28	35	60	2.0	0.14	
		T40	-----				0.14	0.24	28	40	2.0	0.12	

Insert designation Super Finishing Finishing Semi Finishing Roughing Interrupted Cut

DNMG 110404 NN

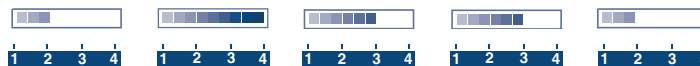


Material Group	Group No	Material Examples*	Brinell hardness	d.o.c [mm]		feed [mm/rev]		A max [mm ²]	V _c [m/min]		Optimal cutting conditions	
				min	max	min	max		min	max	d.o.c	feed
Low Carbon Steel	1	Ck15, Ck45 1020, 1045	150	0.50	5.0	0.21	0.45	1.8	180	350	3.0	0.35
			180		5.0		0.45	1.8		300		
			210		4.0		0.40	1.5		250		
Alloy Steel	2	42 CrMo 4 St 50-2 Ck60 1060 4140	180	0.50	5.0	0.21	0.40	1.2	120	280	3.0	0.30
			230		4.0		0.40	1.2		250		
			280		4.0	0.35	1.2	210				
			320		3.5	0.35	1.0	180				
High Alloy Steel	3	X40 CrMoV 5 1 H 13 40 NiCrMo 6 4340 S 2-10-1-8 HSS M42	220	0.50	4.0	0.18	0.40	1.2	70	190	2.5	0.28
			280		4.0		0.40	1.2		150		
			320		3.0		0.35	0.8		130		
			350	3.0	0.35	0.8	100					
			400	2.5	0.30	0.6	50	90	2.0	0.25		
			480	2.0	0.25	0.4	40	80	1.7	0.20		
			550	1.7	0.20	0.3	30	70	1.0	0.18		
Austenitic Stainless Steel	4	X5 CrNi 18 9 304	210 to 250	0.50	5.0	0.20	0.40	1.0	170	270	3.0	0.35
	5	X2 CrNiMo 17 2 2 316	230 to 270		4.0	0.18	0.35	0.8	160	210	3.0	0.32
	6	X6 CrNiMoTi 17 12 2 316 Ti Duplex / Nitronic	-----		4.0	0.18	0.35	0.6	70	150	2.5	0.28
Ferritic Stainless Steel	7	X8 Cr 7 430	Annealed	0.50	4.0	0.22	0.35	0.9	170	250	3.0	0.32
Martensitic Stainless Steel	8	X15 Cr 13 410	Annealed Treated	0.50	4.0	0.22	0.35	0.9	170 120	250 190	3.0	0.32
Grey Cast Iron	9	GG 20	140 to 230	0.50	5.0	0.15	0.60	2.0	170	250	3.0	0.35
		GG 25						1.8		230		
		GG 30						1.8		210		
Nodular Cast Iron	10	GGG 40	210	0.50	5.0	0.15	0.50	1.5	120	230	3.0	0.30
		GGG 50	260					1.3		190		
		GGG 70	310					1.2		150		
		G-X260NiCr42	450					0.50		1.7		
Nickel Based Alloys	11	Inconel 625	-----	0.50	3.0	0.20	0.35	0.7	25	35	2.0	0.28
		Inconel 718	-----					0.7	28	40		
		Hastelloy C	-----					0.8	40	65		
Titanium Based Alloys	12	TiAl 6 V4	-----	0.50	3.0	0.18	0.35	35	60	2.0	0.30	
		T40	-----				0.30	0.6	28	40	2.0	0.28

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Insert designation Super Finishing Finishing Semi Finishing Roughing Interrupted Cut

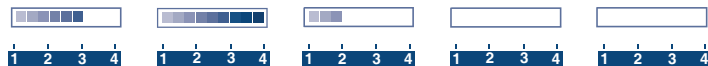
DNMG 110408 NN



Material Group	Group No	Material Examples*	Brinell hardness	d.o.c [mm]		feed [mm/rev]		A max [mm ²]	V _c [m/min]		Optimal cutting conditions		
				min	max	min	max		min	max	d.o.c	feed	
Low Carbon Steel	1	Ck15, Ck45 1020, 1045	150	0.20	3.0	0.11	0.23	0.60	180	350	2.0	0.18	
			180		2.5		0.20			0.48			280
			210		2.5		0.18			0.48			250
Alloy Steel	2	42 CrMo 4 St 50-2 Ck60 1060 4140	180	0.20	2.5	0.11	0.20	0.48	120	280	2.0	0.15	
			230		2.5		0.20			0.40			250
			280		2.0	0.09	0.18	0.40		210			
			320		2.0	0.16	0.32	180					
High Alloy Steel	3	X40 CrMoV 5 1 H 13 40 NiCrMo 6 4340 S 2-10-1-8 HSS M42	220	0.20	2.5	0.09	0.18	0.40	70	190	2.0	0.12	
			280		2.5		0.16			0.40			150
			320		2.0		0.14			0.28			130
			350		2.0		0.14			0.24			100
			400	0.20	1.8	0.05	0.12	0.20	50	90	1.7	0.11	
			480		1.5		0.10	0.17	40	80	1.4	0.09	
550	1.4	0.08	0.13	30	70	1.2	0.07						
Austenitic Stainless Steel	4	X5 CrNi 18 9 304	210 to 250	0.20	2.5	0.10	0.18	0.32	170	270	2.0	0.15	
	5	X2 CrNiMo 17 2 2 316	230 to 270		2.0	0.09	0.16	0.24	160	210	2.0	0.12	
	6	X6 CrNiMoTi 17 12 2 316 Ti Duplex / Nitronic	-----		2.0	0.09	0.14	0.20	70	150	2.0	0.12	
Ferritic Stainless Steel	7	X8 Cr 7 430	Annealed	0.20	2.0	0.11	0.18	0.28	170	250	2.0	0.15	
Martensitic Stainless Steel	8	X15 Cr 13 410	Annealed Treated	0.20	2.0	0.11	0.18	0.28	170 120	250 190	2.0	0.12	
Grey Cast Iron	9	GG 20	140 to 230	0.20	3.0	0.08	0.20	0.64	170	250	2.0	0.18	
		GG 25						0.60		230			
		GG 30						0.60		210			
Nodular Cast Iron	10	GGG 40	210	0.20	2.5	0.08	0.18	0.48	120	230	2.0	0.15	
		GGG 50	260					0.40		190			
		GGG 70	310					0.40		150			
		G-X260NiCr42	450					0.05		0.10			0.17
Nickel Based Alloys	11	Inconel 625	-----	0.20	2.0	0.10	0.16	0.24	25	35	2.0	0.12	
		Inconel 718	-----					0.24	28	40			
		Hastelloy C	-----					0.28	40	65			
Titanium Based Alloys	12	TiAl 6 V4	-----	0.20	2.0	0.09	0.16	0.28	35	60	2.0	0.14	
		T40	-----				0.14	0.24	28	40	2.0	0.12	

Insert designation Super Finishing Finishing Semi Finishing Roughing Interrupted Cut

DNMG 150404 NN

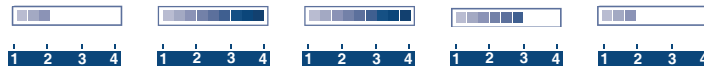


Material Group	Group No	Material Examples*	Brinell hardness	d.o.c [mm]		feed [mm/rev]		A max [mm ²]	V _c [m/min]		Optimal cutting conditions	
				min	max	min	max		min	max	d.o.c	feed
Low Carbon Steel	1	Ck15, Ck45 1020, 1045	150	0.50	5.0	0.21	0.45	1.8	180	350	3.0	0.35
			180		5.0		0.45	1.8		300		
			210		4.0		0.40	1.5		250		
Alloy Steel	2	42 CrMo 4 St 50-2 Ck60 1060 4140	180	0.50	5.0	0.21	0.40	1.2	120	280	3.0	0.30
			230		4.0		0.40	1.2		250		
			280		4.0	0.35	1.2	210				
			320		3.5	0.35	1.0	180				
High Alloy Steel	3	X40 CrMoV 5 1 H 13 40 NiCrMo 6 4340 S 2-10-1-8 HSS M42	220	0.50	4.0	0.18	0.40	1.2	70	190	2.5	0.28
			280		4.0		0.40	1.2		150		
			320		3.0		0.35	0.8		130		
			350		3.0		0.35	0.8		100		
			400	2.5	0.30	0.6	50	90	2.0	0.25		
			480	2.0	0.25	0.4	40	80	1.7	0.20		
			550	1.7	0.20	0.3	30	70	1.0	0.18		
Austenitic Stainless Steel	4	X5 CrNi 18 9 304	210 to 250	0.50	5.0	0.20	0.40	1.0	170	270	3.0	0.35
	5	X2 CrNiMo 17 2 2 316	230 to 270		4.0	0.18	0.35	0.8	160	210	3.0	0.32
	6	X6 CrNiMoTi 17 12 2 316 Ti Duplex / Nitronic	-----		4.0	0.18	0.35	0.6	70	150	2.5	0.28
Ferritic Stainless Steel	7	X8 Cr 7 430	Annealed	0.50	4.0	0.22	0.35	0.9	170	250	3.0	0.32
Martensitic Stainless Steel	8	X15 Cr 13 410	Annealed Treated	0.50	4.0	0.22	0.35	0.9	170 120	250 190	3.0	0.32
Grey Cast Iron	9	GG 20	140 to 230	0.50	5.0	0.15	0.60	2.0	170	250	3.0	0.35
		GG 25						1.8		230		
		GG 30						1.8		210		
Nodular Cast Iron	10	GGG 40	210	0.50	5.0	0.15	0.50	1.5	120	230	3.0	0.30
		GGG 50	260					1.3		190		
		GGG 70	310					1.2		150		
		G-X260NiCr42	450					0.50		1.7		
Nickel Based Alloys	11	Inconel 625	-----	0.50	3.0	0.20	0.35	0.7	25	35	2.0	0.28
		Inconel 718	-----					0.7	28	40		
		Hastelloy C	-----					0.8	40	65		
Titanium Based Alloys	12	TiAl 6 V4	-----	0.50	3.0	0.18	0.35	35	60	2.0	0.30	
		T40	-----				0.30	0.6	28	40	2.0	0.28

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Insert designation Super Finishing Finishing Semi Finishing Roughing Interrupted Cut

DNMG 150408 NN



Material Group	Group No	Material Examples*	Brinell hardness	d.o.c [mm]		feed [mm/rev]		A max [mm ²]	V _c [m/min]		Optimal cutting conditions	
				min	max	min	max		min	max	d.o.c	feed
Low Carbon Steel	1	Ck15, Ck45 1020, 1045	150	0.50	5.0	0.27	0.68	3.1	180	330	4.0	0.50
			180		5.0		0.68			280		
			210		5.0		0.60			250		
Alloy Steel	2	42 CrMo 4 St 50-2 Ck60 1060 4140	180	0.50	5.0	0.27	0.60	2.0	120	280	4.0	0.45
			230		5.0		0.60			250		
			280		5.0	0.53	210					
			320		4.0	0.53	180					
High Alloy Steel	3	X40 CrMoV 5 1 H 13 40 NiCrMo 6 4340 S 2-10-1-8 HSS M42	220	0.50	5.0	0.23	0.60	2.0	70	190	4.0	0.40
			280		5.0		0.60			150		
			320		4.0		0.53			130		
			350		4.0		0.53			100		
			400	3.5	0.45	90	3.4	0.36				
			480	0.50	3.0	0.14	0.35	0.9	40	80	2.9	0.30
550	2.5	0.28	0.6	30	70	2.5	0.25					
Austenitic Stainless Steel	4	X5 CrNi 18 9 304	210 to 250	0.50	5.0	0.26	0.52	1.7	170	270	4.0	0.40
	5	X2 CrNiMo 17 2 2 316	230 to 270		5.0	0.23	0.46	1.4	160	210	4.0	0.36
	6	X6 CrNiMoTi 17 12 2 316 Ti Duplex / Nitronic	-----		5.0	0.23	0.46	1.0	70	150	4.0	0.32
Ferritic Stainless Steel	7	X8 Cr 7 430	Annealed	0.50	5.0	0.29	0.46	1.5	170	250	4.0	0.35
Martensitic Stainless Steel	8	X15 Cr 13 410	Annealed Treated	0.50	5.0	0.29	0.46	1.5	170 120	250 190	4.0	0.35
Grey Cast Iron	9	GG 20	140 to 230	0.50	5.0	0.20	0.90	3.0	170	250	4.0	0.60
		GG 25						2.7		230		
		GG 30						2.7		210		
Nodular Cast Iron	10	GGG 40	210	0.50	5.0	0.20	0.70	2.3	120	230	4.0	0.50
		GGG 50	260					2.0		190		
		GGG 70	310					1.8		150		
		G-X260NiCr42	450					0.50		1.8		
Nickel Based Alloys	11	Inconel 625	-----	0.50	5.0	0.26	0.46	1.4	25	35	3.0	0.38
		Inconel 718	-----					1.4	28	40		
		Hastelloy C	-----					1.6	40	65		
Titanium Based Alloys	12	TiAl 6 V4	-----	0.50	5.0	0.23	0.46	35	60	3.0	0.38	
		T40	-----				0.39	1.2	28	40	3.0	0.32

Insert designation Super Finishing Finishing Semi Finishing Roughing Interrupted Cut

DNMG 150412 NN

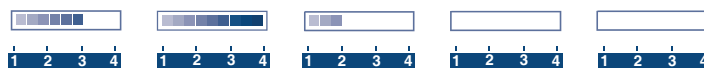


Material Group	Group No	Material Examples*	Brinell hardness	d.o.c [mm]		feed [mm/rev]		A max [mm ²]	V _c [m/min]		Optimal cutting conditions		
				min	max	min	max		min	max	d.o.c	feed	
Low Carbon Steel	1	Ck15, Ck45 1020, 1045	150	0.20	3.0	0.11	0.23	0.60	180	350	2.0	0.18	
			180		2.5		0.20			0.48			280
			210		2.5		0.18			0.48			250
Alloy Steel	2	42 CrMo 4 St 50-2 Ck60 1060 4140	180	0.20	2.5	0.11	0.20	0.48	120	280	2.0	0.15	
			230		2.5		0.20			0.40			250
			280		2.0	0.09	0.18	0.40		210			
			320		2.0		0.16	0.32		180			
High Alloy Steel	3	X40 CrMoV 5 1 H 13 40 NiCrMo 6 4340 S 2-10-1-8 HSS M42	220	0.20	2.5	0.09	0.18	0.40	70	190	2.0	0.12	
			280		2.5		0.16			0.40			150
			320		2.0		0.14			0.28			130
			350		2.0		0.14			0.24			100
			400	0.20	1.8	0.05	0.12	0.20		50	90	1.7	0.11
			480		1.5		0.10	0.17		40	80	1.4	0.09
			550		1.4		0.08	0.13		30	70	1.2	0.07
Austenitic Stainless Steel	4	X5 CrNi 18 9 304	210 to 250	0.20	2.5	0.10	0.18	0.32	170	270	2.0	0.15	
	5	X2 CrNiMo 17 2 2 316	230 to 270		2.0	0.09	0.16	0.24	160	210	2.0	0.12	
	6	X6 CrNiMoTi 17 12 2 316 Ti Duplex / Nitronic	-----		2.0	0.09	0.14	0.20	70	150	2.0	0.12	
Ferritic Stainless Steel	7	X8 Cr 7 430	Annealed	0.20	2.0	0.11	0.18	0.28	170	250	2.0	0.15	
Martensitic Stainless Steel	8	X15 Cr 13 410	Annealed Treated	0.20	2.0	0.11	0.18	0.28	170 120	250 190	2.0	0.12	
Grey Cast Iron	9	GG 20	140 to 230	0.20	3.0	0.08	0.20	0.64	170	250	2.0	0.18	
		GG 25						0.60		230			
		GG 30						0.60		210			
Nodular Cast Iron	10	GGG 40	210	0.20	2.5	0.08	0.18	0.48	120	230	2.0	0.15	
		GGG 50	260					0.40		190			
		GGG 70	310					0.40		150			
		G-X260NiCr42	450					0.20		1.5			0.05
Nickel Based Alloys	11	Inconel 625	-----	0.20	2.0	0.10	0.16	0.24	25	35	2.0	0.12	
		Inconel 718	-----					0.24	28	40			
		Hastelloy C	-----					0.28	40	65			
Titanium Based Alloys	12	TiAl 6 V4	-----	0.20	2.0	0.09	0.16	0.28	35	60	2.0	0.14	
		T40	-----				0.14	0.24	28	40	2.0	0.12	

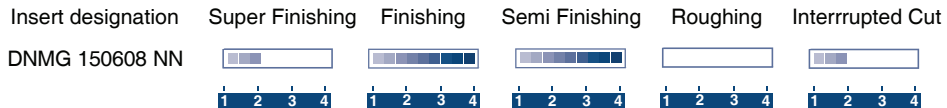
DNMG

Insert designation Super Finishing Finishing Semi Finishing Roughing Interrupted Cut

DNMG 150604 NN



Material Group	Group No	Material Examples*	Brinell hardness	d.o.c [mm]		feed [mm/rev]		A max [mm ²]	V _c [m/min]		Optimal cutting conditions	
				min	max	min	max		min	max	d.o.c	feed
Low Carbon Steel	1	Ck15, Ck45 1020, 1045	150	0.50	5.0	0.21	0.45	1.8	180	350	3.0	0.35
			180		5.0		0.45			300		
			210		4.0		0.40			250		
Alloy Steel	2	42 CrMo 4 St 50-2 Ck60 1060 4140	180	0.50	5.0	0.21	0.40	1.2	120	280	3.0	0.30
			230		4.0		0.40			250		
			280		4.0	0.35	210					
			320		3.5	0.35	180					
High Alloy Steel	3	X40 CrMoV 5 1 H 13 40 NiCrMo 6 4340 S 2-10-1-8 HSS M42	220	0.50	4.0	0.18	0.40	1.2	70	190	2.5	0.28
			280		4.0		0.40			150		
			320		3.0		0.35			130		
			350		3.0		0.35			100		
			400	2.5	0.30	90	2.0	0.25				
			480	2.0	0.25	80	1.7	0.20				
550	1.7	0.20	70	1.0	0.18							
Austenitic Stainless Steel	4	X5 CrNi 18 9 304	210 to 250	0.50	5.0	0.20	0.40	1.0	170	270	3.0	0.35
	5	X2 CrNiMo 17 2 2 316	230 to 270		4.0	0.18	0.35	0.8	160	210	3.0	0.32
	6	X6 CrNiMoTi 17 12 2 316 Ti Duplex / Nitronic	-----		4.0	0.18	0.35	0.6	70	150	2.5	0.28
Ferritic Stainless Steel	7	X8 Cr 7 430	Annealed	0.50	4.0	0.22	0.35	0.9	170	250	3.0	0.32
Martensitic Stainless Steel	8	X15 Cr 13 410	Annealed Treated	0.50	4.0	0.22	0.35	0.9	170 120	250 190	3.0	0.32
Grey Cast Iron	9	GG 20	140 to 230	0.50	5.0	0.15	0.60	2.0	170	250	3.0	0.35
		GG 25						1.8		230		
		GG 30						1.8		210		
Nodular Cast Iron	10	GGG 40	210	0.50	5.0	0.15	0.50	1.5	120	230	3.0	0.30
		GGG 50	260					1.3		190		
		GGG 70	310					1.2		150		
		G-X260NiCr42	450					0.4		30		
Nickel Based Alloys	11	Inconel 625	-----	0.50	3.0	0.20	0.35	0.7	25	35	2.0	0.28
		Inconel 718	-----					0.7	28	40		
		Hastelloy C	-----					0.8	40	65		
Titanium Based Alloys	12	TiAl 6 V4	-----	0.50	3.0	0.18	0.35	35	60	2.0	0.30	
		T40	-----				0.30	28	40	2.0	0.28	



Material Group	Group No	Material Examples*	Brinell hardness	d.o.c [mm]		feed [mm/rev]		A max [mm ²]	V _c [m/min]		Optimal cutting conditions	
				min	max	min	max		min	max	d.o.c	feed
Low Carbon Steel	1	Ck15, Ck45 1020, 1045	150	0.50	5.0	0.27	0.68	3.1	180	330	4.0	0.50
			180		5.0		0.68	3.1		280		
			210		5.0		0.60	2.6		250		
Alloy Steel	2	42 CrMo 4 St 50-2 Ck60 1060 4140	180	0.50	5.0	0.27	0.60	2.6	120	280	4.0	0.45
			230		5.0		0.60	2.0		250		
			280		5.0	0.53	2.0	210				
			320		4.0	0.53	1.7	180				
High Alloy Steel	3	X40 CrMoV 5 1 H 13 40 NiCrMo 6 4340 S 2-10-1-8 HSS M42	220	0.50	5.0	0.23	0.60	2.0	70	190	4.0	0.40
			280		5.0		0.60	2.0		150		
			320		4.0		0.53	1.6		130		
			350		4.0		0.53	1.6		100		
			400	3.5	0.45	1.2	50	90	3.4	0.36		
			480	0.50	3.0	0.14	0.35	0.9	40	80	2.9	0.30
			550	2.5	0.28	0.6	30	70	2.5	0.25		
Austenitic Stainless Steel	4	X5 CrNi 18 9 304	210 to 250	0.50	5.0	0.26	0.52	1.7	170	270	4.0	0.40
	5	X2 CrNiMo 17 2 2 316	230 to 270		5.0	0.23	0.46	1.4	160	210	4.0	0.36
	6	X6 CrNiMoTi 17 12 2 316 Ti Duplex / Nitronic	-----		5.0	0.23	0.46	1.0	70	150	4.0	0.32
Ferritic Stainless Steel	7	X8 Cr 7 430	Annealed	0.50	5.0	0.29	0.46	1.5	170	250	4.0	0.35
Martensitic Stainless Steel	8	X15 Cr 13 410	Annealed Treated	0.50	5.0	0.29	0.46	1.5	170 120	250 190	4.0	0.35
Grey Cast Iron	9	GG 20	140 to 230	0.50	5.0	0.20	0.90	3.0	170	250	4.0	0.60
		GG 25						2.7		230		
		GG 30						2.7		210		
Nodular Cast Iron	10	GGG 40	210	0.50	5.0	0.20	0.70	2.3	120	230	4.0	0.50
		GGG 50	260					2.0		190		
		GGG 70	310					1.8		150		
		G-X260NiCr42	450	0.50	1.8	0.06	0.15	0.3	30	50	1.2	0.12
Nickel Based Alloys	11	Inconel 625	-----	0.50	5.0	0.26	0.46	1.4	25	35	3.0	0.38
		Inconel 718	-----					1.4	28	40		
		Hastelloy C	-----					1.6	40	65		
Titanium Based Alloys	12	TiAl 6 V4	-----	0.50	5.0	0.23	0.46	1.6	35	60	3.0	0.38
		T40	-----				0.39	1.2	28	40	3.0	0.32

DNMG

Insert designation Super Finishing Finishing Semi Finishing Roughing Interrupted Cut

