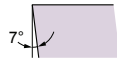


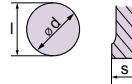
R C M T



Shape

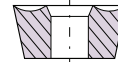


Clearance Angle



Tolerance

$s \pm 0.13$
For $l = 06/08/10$, $d \pm 0.05$ $m \pm 0.08$
For $l = 12$, $d \pm 0.08$ $m \pm 0.13$



Fixing
Chip breaker

Insert Designation	Grade	l	s	r	Catalog Nr.
RCMT 0602 M0	LT 1000	06	2.38	3	T0001914
RCMT 0803 M0	LT 1000	08	3.18	4	T0001915
RCMT 10T3 M0	LT 1000	10	3.97	5	T0001916
RCMT 1204 M0	LT 1000	12	4.76	6	T0001917

Round inserts with positive Rake angle and excellent edge resistance. Suitable for Profiling operations of Mill rolls and Aerospace parts.

Application Guide

	Finishing	Medium	Roughing / Interrupted cut	
RCMT 0602	☹️	😊	☹️	<p>😊 = Good ☺️ = Acceptable ☹️ = Not recommended</p> <p>Finishing: d.o.c. = 0.30 - 1.50 mm fn = 0.08 - 0.20 mm/rev</p> <p>Medium: d.o.c. = 0.70 - 4.50 mm fn = 0.15 - 0.45 mm/rev</p> <p>Roughing d.o.c. = 3.00 - 7.00 mm fn = 0.35 - 0.70 mm/rev</p>
RCMT 0803	☹️	😊	☹️	
RCMT 10T3	☹️	😊	☹️	
RCMT 1204	☹️	😊	☹️	

Stainless Steel
↑ V_c

↑ V_c ⇒
↑ Productivity

Machine Recommendations Guide
Details on page 10

RCMT 0602 M0 LT 10 & LT 1000

Material Group	Gr. N°	VDI Group	Material Examples*	Hardness	D.O.C. [mm]		Feed [mm/rev]		Amax [mm²]	V _c [m/min]		Optimal cutting conditions			
					min	max	min	max		min	max	D.O.C.	Feed	V _c	
Steel	Non-alloyed	1	C35, Ck45, 1020, 1045, 1060, 28Mn6	125 HB	0.5	2.0	0.15	0.40	0.64	180	330	1.0	0.35	240	
		190 HB		2.0		0.40		0.64	280		0.35		220		
		250 HB		1.5		0.35		0.56	250		0.30		200		
	Low alloyed	2	42CrMo4, S150, Ck60, 4140, 4340, 100Cr6	180 HB	0.5	2.0	0.15	0.35	0.56	120	280	1.0	0.30	200	
		230 HB		2.0		0.35		0.48	250		180				
		280 HB		2.0		0.35		0.40	210		150				
		350 HB		1.5		0.35		0.36	180		130				
	High alloyed	3	X40CrMoV5, H13, M42, D3, S6-5-2, 12Ni19	220 HB	0.5	2.0	0.13	0.35	0.48	70	190	1.0	0.30	140	
		280 HB		2.0		0.30		0.40	150		120				
		320 HB		1.5		0.30		0.32	130		100				
		350 HB		1.5		0.30		0.26	110		90				
Stainless Steel	Austenitic	4	304, 316, X5CrNi18-9	180 HB	0.5	2.0	0.14	0.35	0.32	170	270	1.0	0.32	220	
		240 HB		2.0		0.32		0.32	160		190				
	Duplex	5	X2CrNi23-4, S31500	290 HB	0.5	1.5	0.13	0.30	0.30	80	150	1.0	0.28	100	
		310 HB		1.5		0.30		0.30	70		90				
	Ferritic & Martensitic	6	410, X6Cr17, 17-4 PH, 430	200 HB	0.5	2.0	0.15	0.35	0.32	170	250	1.0	0.32	210	
		42 HRc		2.0		0.30		0.30	120		140				
Cast Iron	Grey	7	GG20, GG40, EN-GJL-250, No30B	150 HB	0.5	2.0	0.11	0.45	0.70	170	250	1.0	0.35	200	
		200 HB		2.0		0.45		0.65	160		180				
		250 HB		2.0		0.45		0.60	150		160				
	Malleable & Nodular	8	GGG40, GGG70, 50005	150 HB	0.5	2.0	0.11	0.35	0.60	120	250	1.0	0.30	180	
		200 HB		2.0		0.35		0.50	230		160				
		250 HB		2.0		0.35		0.45	190		140				
High Temp. Alloys	Fe, Ni & Co based	9	Incoloy 800, Inconel 700, Stellite 21	240 HB	0.5	1.5	0.13	0.30	0.30	25	50	1.0	0.28	33	
		250 HB		1.5		0.30		0.30	25		30				
		350 HB		1.5		0.30		0.30	23		28				
	Ti based	10	TiAl6V4, T40	-	0.5	1.5	0.13	0.32	0.32	45	65	1.0	0.30	55	
		-		1.5		0.30		0.30	35		45				
Hardened Mat.	Steel	11	X100CrMo13, 440C, G-X260NiCr42	45 HRc	0.5	1.2	0.05	0.22	0.20	50	100	0.9	0.18	80	
		50 HRc		1.0		0.18		0.17	40		70				
		55 HRc		0.8		0.14		0.12	40		60				
	Chilled Cast Iron	11	Ni-Hard 2	400 HB	0.5	1.2	0.05	0.22	0.17	40	60	0.9	0.18	50	
	White Cast Iron	41	G-X300CrMo15	55 HRc	0.3	0.8	0.05	0.14	0.10	30	50	0.6	0.12	40	
NF	Al (>8%Si)	12	25	AlSi12	130 HB	0.5	2.0	0.15	0.40	0.70	200	400	1.0	0.35	280

RCMT 0803 M0 LT 10 & LT 1000

Material Group	Gr. N°	VDI Group	Material Examples*	Hardness	D.O.C. [mm]		Feed [mm/rev]		Amax [mm ²]	V _c [m/min]		Optimal cutting conditions		
					min	max	min	max		min	max	D.O.C.	Feed	V _c
Steel	Non-alloyed	1	C35, Ck45, 1020, 1045, 1060, 28Mn6	125 HB	0.5	2.4	0.15	0.40	0.77	180	330	1.2	0.35	240
		190 HB		2.4		0.40		0.77	280		0.35		220	
		250 HB		1.8		0.35		0.67	250		0.30		200	
	Low alloyed	2	42CrMo4, St50, Ck60, 4140, 4340, 100Cr6	180 HB	0.5	2.4	0.15	0.35	0.67	120	280	1.2	0.30	200
		230 HB		2.4		0.35		0.58	250		180			
		280 HB		2.4		0.35		0.48	210		150			
		350 HB		1.8		0.35		0.43	180		130			
	High alloyed	3	X40CrMoV5, H13, M42, D3, S6-5-2, 12Ni19	220 HB	0.5	2.4	0.13	0.35	0.58	70	190	1.2	0.30	140
		280 HB		2.4		0.30		0.48	150		0.28		120	
		320 HB		1.8		0.30		0.38	130		0.28		100	
		350 HB		1.8		0.30		0.31	110		0.28		90	
Stainless Steel	Austenitic	4	304, 316, X5CrNi18-9	180 HB	0.5	2.4	0.14	0.35	0.38	170	270	1.2	0.32	220
		240 HB		2.4		0.32		0.38	160	220	190			
	Duplex	5	X2CrNiN23-4, S31500	290 HB	0.5	1.8	0.13	0.30	0.36	80	150	1.2	0.28	100
		310 HB		1.8		0.30		0.36	70	140	90			
	Ferritic & Martensitic	6	410, X6Cr17, 17-4 PH, 430	200 HB	0.5	2.4	0.15	0.35	0.38	170	250	1.2	0.32	210
		42 HRc		2.4		0.30		0.36	120	190	140			
Cast Iron	Grey	7	GG20, GG40, EN-GJL-250, No30B	150 HB	0.5	2.4	0.11	0.45	0.84	170	250	1.2	0.35	180
		200 HB		2.4		0.45		0.78	160	230	160			
		250 HB		2.4		0.45		0.72	150	210	160			
	Malleable & Nodular	8	GGG40, GGG70, 50005	150 HB	0.5	2.4	0.11	0.35	0.72	120	230	1.2	0.30	160
		200 HB		2.4		0.35		0.60	190	140				
250 HB	2.4	0.35	0.54	190	140									
High Temp. Alloys	Fe, Ni & Co based	9	Incoloy 800, Inconel 700, Stellite 21	240 HB	0.5	1.8	0.13	0.30	0.36	25	50	1.2	0.28	30
		250 HB		1.8		0.30		0.36	25	50	28			
		350 HB		1.8		0.30		0.36	23	45	28			
	Ti based	10	TiAl6V4, T40	-	0.5	1.8	0.13	0.32	0.38	45	65	1.2	0.30	55
-	1.8	0.30		0.36		35		60	45					
Hardened Mat.	Steel	11	X100CrMo13, 440C, G-X260NiCr42	45 HRc	0.5	1.4	0.05	0.22	0.24	50	100	1.1	0.18	80
		50 HRc		1.2		0.18		0.20	40	90	0.8		0.16	70
		55 HRc		1.0		0.14		0.14	40	80	0.7		0.12	60
	Chilled Cast Iron	40	Ni-Hard 2	400 HB	0.5	1.4	0.05	0.22	0.20	40	60	1.1	0.18	50
	White Cast Iron	41	G-X300CrMo15	55 HRc	0.3	1.0	0.05	0.14	0.12	30	50	0.7	0.12	40
NF	Al (>8%Si)	12	AlSi12	130 HB	0.5	2.4	0.15	0.40	0.84	200	400	1.2	0.35	280

RCMT 10T3 M0 LT 10 & LT 1000

Material Group	Gr. N°	VDI Group	Material Examples*	Hardness	D.O.C. [mm]		Feed [mm/rev]		Amax [mm²]	V _c [m/min]		Optimal cutting conditions			
					min	max	min	max		min	max	D.O.C.	Feed	V _c	
Steel	Non-alloyed	1	C35, Ck45, 1020, 1045, 1060, 28Mn6	125 HB	0.5	2.8	0.15	0.40	0.90	180	330	1.4	0.35	240	
		190 HB		2.8		0.40		0.90	280		0.35		220		
		250 HB		2.1		0.35		0.78	250		0.30		200		
	Low alloyed	2	42CrMo4, S150, Ck60, 4140, 4340, 100Cr6	180 HB	0.5	2.8	0.15	0.35	0.78	120	280	1.4	0.30	200	
		230 HB		2.8		0.35		0.67	250		1.4			180	
		280 HB		2.8		0.35		0.56	210		1.4			150	
		350 HB		2.1		0.35		0.50	180		1.4			130	
	High alloyed	3	X40CrMoV5, H13, M42, D3, S6-5-2, 12Ni19	220 HB	0.5	2.8	0.13	0.35	0.67	70	190	1.4	0.30	140	
		280 HB		2.8		0.30		0.56	150		0.28		120		
		320 HB		2.1		0.30		0.45	130		0.28		100		
		350 HB		2.1		0.30		0.36	110		0.28		90		
Stainless Steel	Austenitic	4	304, 316, X5CrNi18-9	180 HB	0.5	2.8	0.14	0.35	0.45	170	270	1.4	0.32	220	
		240 HB		2.8		0.32		0.45	160		220		1.4	0.32	190
	Duplex	5	X2CrNi23-4, S31500	290 HB	0.5	2.1	0.13	0.30	0.42	80	150	1.4	0.28	100	
		310 HB		2.1		0.30		0.42	70		140		0.28	90	
	Ferritic & Martensitic	6	410, X6Cr17, 17-4 PH, 430	200 HB	0.5	2.8	0.15	0.35	0.45	170	250	1.4	0.32	210	
		42 HRc		2.8		0.30		0.42	120		190		0.28	140	
Cast Iron	Grey	7	GG20, GG40, EN-GJL-250, No30B	150 HB	0.5	2.8	0.11	0.45	0.98	170	250	1.4	0.35	200	
		200 HB		2.8		0.45		0.91	160		230		0.35	180	
		250 HB		2.8		0.45		0.84	150		210		0.35	160	
	Malleable & Nodular	8	GGG40, GGG70, 50005	150 HB	0.5	2.8	0.11	0.35	0.84	120	250	1.4	0.30	180	
		200 HB		2.8		0.35		0.70	230		160		0.30	160	
High Temp. Alloys	Fe, Ni & Co based	9	Incoloy 800	240 HB	0.5	2.1	0.13	0.30	0.42	25	50	1.4	0.28	33	
		250 HB		2.1		0.30		0.42	25		50		0.28	30	
		350 HB		2.1		0.30		0.42	23		45		0.28	28	
	Ti based	10	TiAl6V4	-	0.5	2.1	0.13	0.32	0.45	45	65	1.4	0.30	55	
		-		2.1		0.30		0.42	35		60		0.28	45	
	Hardened Mat.	Steel	11	X100CrMo13, 440C, G-X260NiCr42	45 HRc	0.5	1.7	0.05	0.22	0.28	50	100	1.3	0.18	80
			50 HRc		1.4		0.18		0.24	40		90		1.0	0.16
55 HRc			1.1		0.14		0.17		40	80		0.8		0.12	60
Chilled Cast Iron		11	Ni-Hard 2	400 HB	0.5	1.7	0.05	0.22	0.24	40	60	1.3	0.18	50	
White Cast Iron		41	G-X300CrMo15	55 HRc	0.3	1.1	0.05	0.14	0.14	30	50	0.8	0.12	40	
NF	Al (>8%Si)	12	25	AlSi12	130 HB	0.5	2.8	0.15	0.40	0.98	200	400	1.4	0.35	280

RCMT 1204 M0 LT 10 & LT 1000

Material Group	Gr. N°	VDI Group	Material Examples*	Hardness	D.O.C. [mm]		Feed [mm/rev]		Amax [mm ²]	V _c [m/min]		Optimal cutting conditions				
					min	max	min	max		min	max	D.O.C.	Feed	V _c		
Steel	Non-alloyed	1	C35, Ck45, 1020, 1045, 1060, 28Mn6	125 HB	0.5	3.2	0.15	0.40	1.54	180	330	2.0	0.42	240		
		190 HB		2		0.40		1.54	280		0.42		220			
		250 HB		3		2.4		0.35	1.34		250		0.36	200		
	Low alloyed	2	42CrMo4, St50, Ck60, 4140, 4340, 100Cr6	180 HB	0.5	3.2	0.15	0.35	1.34	120	280	2.0	0.36	200		
				230 HB		4,6		0.35	1.15		250			180		
				280 HB		5,7		0.35	0.96		210			150		
				350 HB		8		2.4	0.35		0.86			180	130	
	High alloyed	3	X40CrMoV5, H13, M42, D3, S6-5-2, 12Ni19	220 HB	0.5	3.2	0.13	0.35	1.15	70	190	2.0	0.36	140		
				280 HB		10		0.30	0.96		150			120		
				320 HB		11		0.30	0.77		130			100		
				350 HB		11		2.4	0.30		0.62			110	90	
Stainless Steel	Austenitic	4	304, 316, X5CrNi18-9	180 HB	0.5	3.2	0.14	0.35	0.77	170	270	2.0	0.38	220		
				240 HB		14		0.32	0.77	160	220					
	Duplex	5	X2CrNiN23-4, S31500	290 HB	0.5	2.4	0.13	0.30	0.60	80	150	1.5	0.34	100		
				310 HB		14		2.4	0.30	0.60	70			140	90	
	Ferritic & Martensitic	6	410, X6Cr17, 17-4 PH, 430	200 HB	0.5	3.2	0.15	0.35	0.77	170	250	2.0	0.38	210		
				42 HRc		13		3.2	0.30	0.65	120			190	140	
Cast Iron	Grey	7	GG20, GG40, EN-GJL-250, No30B	150 HB	0.5	3.2	0.11	0.45	1.68	170	250	2.0	0.42	200		
				200 HB		15		0.45	1.56	160	230					
				250 HB		16		3.2	0.45	1.44	150			210	160	
	Malleable & Nodular	8	GGG40, GGG70, 50005	150 HB	0.5	3.2	0.11	0.35	1.44	120	230	2.0	0.36	160		
				200 HB		17,19		0.35	1.20	190	140					
High Temp. Alloys	Fe, Ni & Co based	9	Incoloy 800, Inconel 700, Stellite 21	240 HB	0.5	2.4	0.13	0.30	0.60	25	50	1.5	0.34	33		
				250 HB		33		0.30	0.60	25	50			30		
				350 HB		34		0.30	0.60	23	45			28		
	Ti based	10	TiAl6V4, T40	-	0.5	2.4	0.13	0.32	0.60	45	65	1.5	0.36	55		
				-		37		2.4	0.30	0.60	35			60	45	
Hardened Mat.	Steel	11	X100CrMo13, 440C, G-X260NiCr42	45 HRc	0.5	1.9	0.05	0.22	0.48	50	100	1.8	0.22	80		
				50 HRc		38		0.18	0.41	40	90			1.4	0.19	70
				55 HRc		38		1.3	0.14	0.29	40			80	1.2	0.14
	Chilled Cast Iron	40	0.5	1.9	0.05	0.22	0.41	40	60	1.8	0.22	50				
White Cast Iron	41	0.5	1.3	0.05	0.14	0.24	30	50	1.2	0.14	40					
NF	Al (>8%Si)	12	25	AISI12	130 HB	0.5	3.2	0.15	0.40	1.68	200	400	2.0	0.42	280	